LG
Life's Good

OWNER'S MANUAL
LCD TV

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

42LW4500
47LW4500
55LW4500

www.lg.com

LICENSES

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7,295,673; 7,460,668; 7,515,710; 7,519,274

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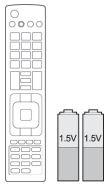
ENGLISH

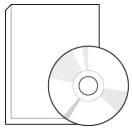
ASSEMBLING AND PREPARING

Unpacking

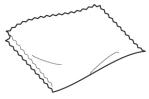
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.



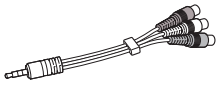
Remote control and batteries(AAA)



Owner's Manual&Card



Polishing cloth



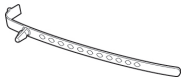
AV gender cable x 1



x 8

(M4x12)

Screw for assembly



Cable Holder



x 4

3D Glasses
(AG-P110)

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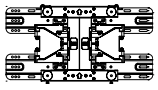
Optional Extras

Optional extras can be changed or modified for quality improvement without any notification. Contact your dealer for buying these items.

Wall Mounting Bracket

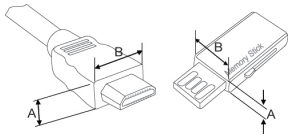
Model	42/47/55LW4500
VESA (A x B)	400 x 400
Standard screw	M6
Number of screws	4
Wall mount bracket (optional)	LSW400B, LSW400BG 

CAUTION

- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.

NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width.



*A ≦ 10 mm
*B ≦ 18 mm

ENGLISH

Parts and buttons

NOTE

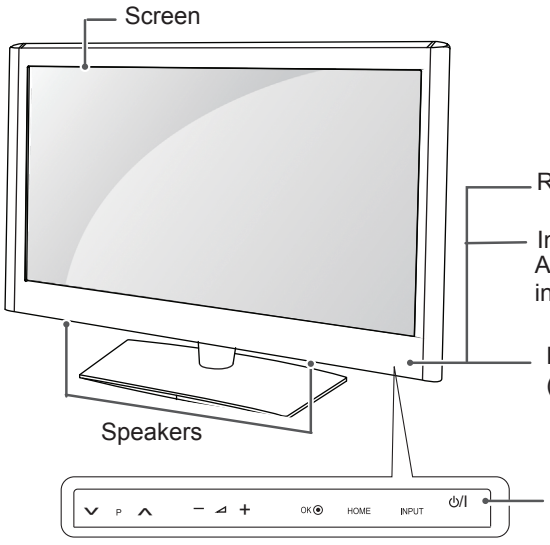
- TV can be placed in standby mode in order to reduce the power consumption. And TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

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.

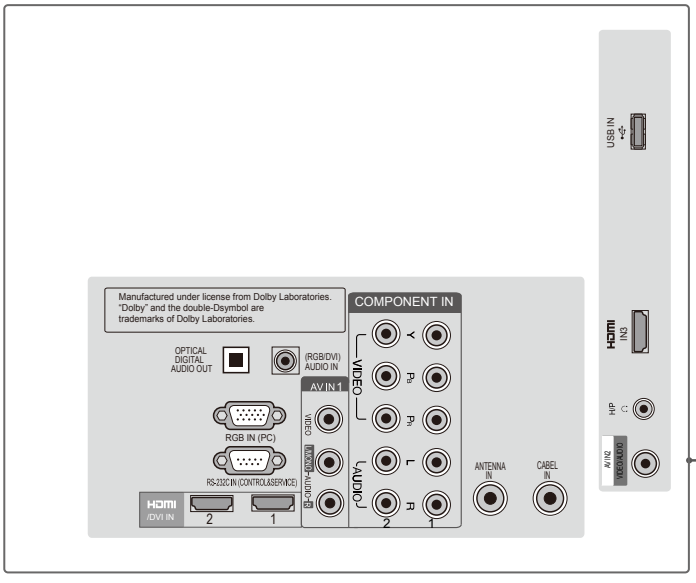
- Image shown may differ from your TV.

FRONT PANEL



Touch button	Description
⏻/❙	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the Home menus and exits the menus.
OK ◉	Selects the highlighted menu option or confirms an input
− ◿ +	Adjusts the volume level
⌄ P ⌃	Scrolls through the saved programmes

BACK PANEL



Lifting and moving the TV

When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

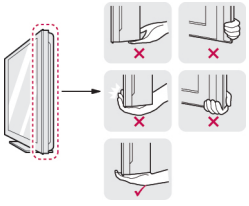
CAUTION

- Avoid touching the screen at all times, as this may result in damage on the screen or some of the pixels used to create images.

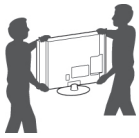
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to prevent the screen from scratches.



- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.



- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.

Setting up the TV

- Image shown may differ from your TV.

Put your TV on a pedestal stand and mount the TV on a table or wall.

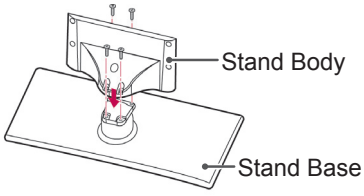
Attaching the stand

1 Lay the TV with the screen side down on a flat surface.

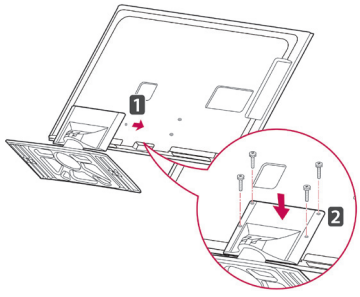
CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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



3 Secure the TV and the stand with the 4 screws.



CAUTION

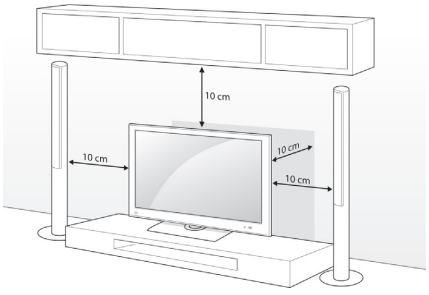
- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Mounting on a table

- Image shown may differ from your TV.

1 Lift and tilt the TV into its upright position on a table.

- Leave a 10 cm (minimum) space from the wall for proper ventilation.



2 Connect the power cord to a wall outlet.

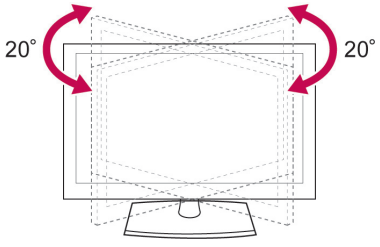
CAUTION

- Do not place the TV near or on sources of heat, as this may result in fire.

Swivel stand

- Image shown may differ from your TV.

Swivel 20 degrees to the left or right and adjust the angle of the TV to suit your view .

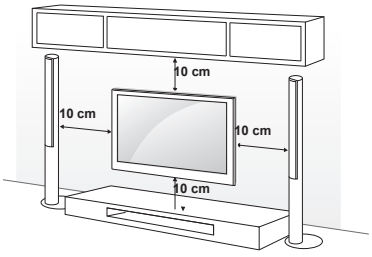


Wall mount:horizontal installation

- 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 perfo-rmed by a qualified professional installer.

NOTE

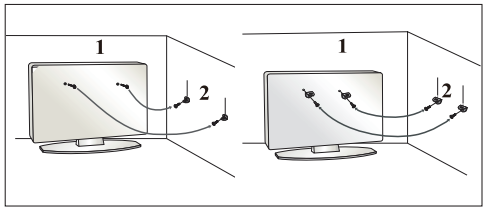
Should install wall mount on a soild wall perpendicular to the floor.
Should use a special wall mount,if you want to install it to ceiling or slanted wall.
The surface that wall mount is to be mounted on should be of sufficient strength to support the weight of TV set ;e.g:concrete,natural rock brick 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.
—Inorrect fastening of screws to surface which may cause TV to fall and cause personal injury.
—Not following the recommended Installation method.



Careful installation advice

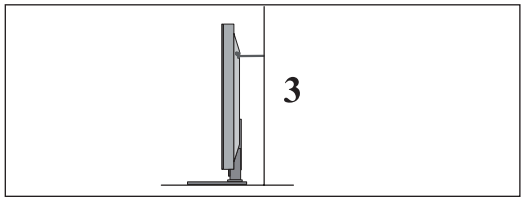
This feature is not available for all models.
Image shown may differ from your TV.

- You should purchase necessary components to fixthe 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 possi-bility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that children do not climb or hang from the TV.



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

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



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

CAUTION

- 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.

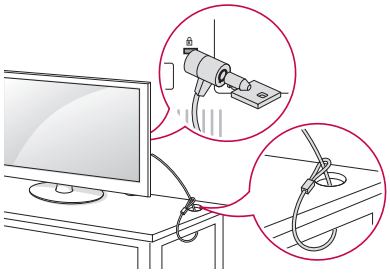
Kensington Security System

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 below. For the detailed installation and use of the Kensington Security System, refer to the user's guide provided w-ith 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.

CAUTION

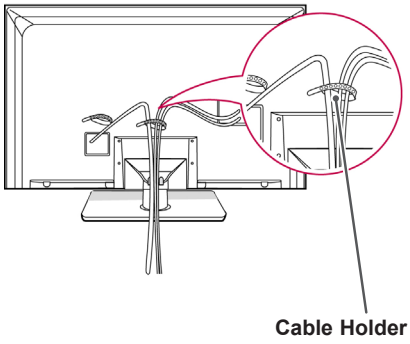
- The Kensington Security System is an optional accessory.
- If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.
- Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the mo-nitor'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.



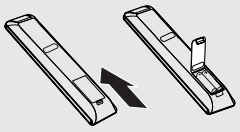
Tidying cables

- Image shown may differ from your TV.

1 After connecting the cables as necessary, install **Cable Holder** as shown and bundle the cables.



REMOTE CONTROL



Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
Install two 1.5V AAA batteries.
Close cover.

CAUTION

Do not mix old and new batteries, as this may damage the remote control.
Make sure to point the remote control at the remote control sensor on the TV.



(POWER)	Switches the TV on from standby or on to standby.
ENERGY SAVING	Adjusts the brightness of the screen to reduce energy consumption.
AV MODE	Selects an AV mode.
INPUT	External in put mode rotate in regular sequence.
TV/RAD	Selects Radio, TV and DTV programme.
Number buttons	Enters numbers.
LIST	Accesses the saved programme list.
Q.VIEW	Returns to the previously viewed programme.
+ -	Adjusts the volume level.
MARK	Check and un-check programmes in the USB menu.
FAV	Accesses your favourite programme list.
3D	Used for viewing 3D video.
MUTE	Mutes all sounds.
P	Scrolls through the saved programmess.
PAGE	Moves to the previous or next screen.
GUIDE	Shows programme guide.
HOME	Accesses the Home menu.
Q.MENU	Accesses the quick menus.
Navigation buttons (up/down/left/right)	Allows you to navigate the on-screen menus and adjust the system setting to your preference
OK	Selects menus or options and confirms your input.
BACK	Returns to the previous level.
EXIT	Clears all on-screen displays and return to TV viewing.
INFO	Views the information of the currently programme and the screen.
Coloured buttons	These buttons are used for teletext (on TELETEXT models only), Programme edit.
3D SETTING	Use this to view 3D video.
TEXT/T.OPT	These buttons are used for teletext. For further details, see the 'Teletext' section.
SUBTITLE	Recalls your preferred subtitle in digital mode.
Control buttons (■, ▶, II, ◀◀, ▶▶)	Controls the MY MEDIA menus or the SIMPLINK compatible devices (USB,SIMPLINK).
SIMPLINK	Accesses the AV devices connected to the TV; Opens the SIMPLINK menu.
RATIO	Resizes an image

WATCHING TV

Connecting an antenna

Connect an antenna to watch TV while referring to the following.
To prevent damage do not connect to the mains outlet until all connections are made between the devices.

Connect the TV to a wall antenna socket with an RF cable (75 Ω).

NOTE

- For optimum picture quality, adjust antenna direction.
- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna.
- If the image quality is poor with an antenna connected, aim the antenna to the correct direction.
- An antenna cable and converter are not supplied.

Turning the TV on for the first time

When you turn the TV on for the first time, the Initial setting screen appears. Select a language and customize the basic settings.

1 Connect the power cord to a power outlet.

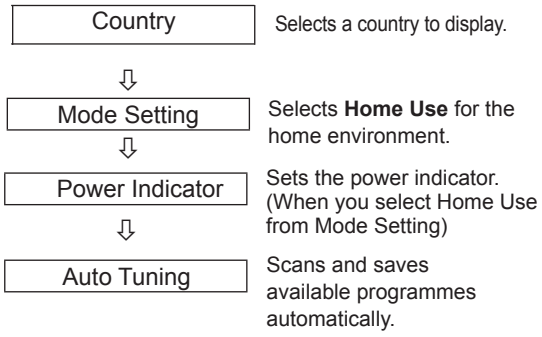
2 In Standby mode, press ⏻(**POWER**) to turn the TV on.

The Initial setting screen appears if you turn the TV on for the first time.

NOTE

- You can also access **Factory Reset** by accessing **OPTION** in the main menus.

3 Follow the on-screen instructions to customize your TV settings according to your preferences.



NOTE

- For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.

4 When the basic settings are complete, press **OK**.

NOTE

- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

Watching TV

1 In Standby mode, press ⏻(**POWER**) to turn the TV on.

2 Press **INPUT** and select **Antenna**.

3 To turn the TV off, press ⏻(**POWER**).
The TV switches to Standby mode.

ENGLISH

Managing programmes

Automatically setting up programme

Use this to automatically find and store all available programmes.
When you start auto programming, all previously stored service information will be deleted.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.

4. Press the Navigation buttons to scroll to **Antenna** and press **OK**.

5 Select **Start** to start automatic tuning.
The TV scans and saves available programmes automatically.

6 When you are finished, press **EXIT.**
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- You can store up to 1,000 programmes. The number of programmes that you can store differs depending on the broadcasting signal environment.

The following values are needed in order to search all available programmes quickly and correctly.
The commonly used values are provided as "default".
However, for correct settings, please inquire of the cable service provider.
When running **Auto Tuning** in DVB cable mode, selecting Full will search through all frequencies to find available channels.
In the case when the programme is not searched by selecting the Default, perform the searching by selecting the Full.
However, in the case when the programme is searched by selecting the Full, the Auto Tuning time can be taken too much.

- **Frequency** : Enter a user-defined frequency.
- **Symbol rate** : Enter a user-defined symbol rate (Symbol rate: Speed at which a device such as modem sends symbols to a channel).
- **Modulation** : Enter a user-defined modulation. (Modulation: Loading of audio or video signals onto carrier).
- **Network ID** : Unique identifier allocated for each user.
- **Start Frequency** : Enter a user-defined start frequency range.
- **End Frequency** : Enter a user-defined end frequency range.

Manually setting up programme (In digital mode)

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

Selecting **Antenna**,

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **DTV** and press **OK**.

5 Scroll through the programme types, and then add or delete programmes.

6 When you are finished, press **EXIT.**
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.

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Manually setting up programme (In analogue mode)

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

1. Press **Home** to access the main menus.
2. Press the Navigation buttons to scroll to **SETUP** and press **OK**.
3. Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.
4. Press the Navigation buttons to scroll to **TV** or **Cable TV** and press **OK**.
5. Scroll through the programme types, and then add or delete programmes.
6. Press the Navigation buttons to scroll to TV System.
7. Press the Navigation buttons to scroll to **V/UHF or Cable**.
8. Press the Navigation buttons or Number buttons to scroll to the desired channel number.
9. Press the Navigation buttons to scroll to commence searching.
10. Press the Navigation buttons to scroll to **Store** and press **OK.**
11. When you are finished, press **EXIT.**
    When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- **L** : SECAM L/L' (France)
- **BG** : PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa)
- **I**: PAL I (U.K. / Ireland / Hong Kong / South Africa)
- **DK** : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
- NTSC M:USA/Korea/Philippines
- To store another channel, repeat steps 5 to 10.

Assigning a station name

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

1. Press **Home** to access the main menus.
2. Press the Navigation buttons to scroll to **SETUP** and press **OK**.
3. Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.
4. Press the Navigation buttons to scroll to **TV or Cable TV**.
5. Press the Navigation buttons to scroll to **Name** and press **OK**.
6. Press the Navigation buttons to scroll Select the position and make your choice of the second character, and so on. You can use an the alphabet A to Z, the number 0 to 9, +/ -, and blank and press **OK**.
7. Press the Navigation buttons to scroll to **Close** and press **OK**.
8. Press the Navigation buttons to scroll to **Store** and press **OK**
9. When you are finished, press **EXIT.**
   When you return to the previous menu, press **BACK**.

Fine Tuning

Normally fine tuning is only necessary if reception is poor.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **TV or Cable TV**.

5 Press the Navigation buttons to scroll to **Fine**.

6 Fine tune for the best picture and sound.

7 Press the Navigation buttons to scroll to **Store** and press **OK**

8 When you are finished, press **EXIT.**
When you return to the previous menu, press **BACK**.

Editing your programme list

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

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Programme Edit** and press **OK**.

4 Press the Navigation buttons to select a programme to be stored or skipped.

5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

In DTV/RADIO mode

Skipping a programme number

1 Press the Navigation buttons to scroll to select a programme number to be skipped.

2 Press Blue button to turn the programme number.

3 Press Blue button to release.

NOTE

- When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the P ^ or 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.

Locking a programme number

1 Press the Navigation buttons to scroll to select a programme number to be locked.

2 Press Yellow button to turn the programme number.

3 Press Yellow button to release.

NOTE

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

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In TV mode

Deleting a programme

1 Press the Navigation buttons to scroll to select a programme number to be deleted.

2 Press Red button to turn the programme number.

NOTE

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

Moving a programme

1 Press the Navigation buttons to scroll to select a programme number to be moved.

2 Press the Green button to turn the programme number and press the Navigation buttons.

3 Press Green button to release.

Skipping a programme number

1 Press the Navigation buttons to scroll to select a programme number to be skipped.

2 Press Blue button to turn the programme number.

3 Press Blue button to release.

NOTE

•When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the P ∧ ∨ 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.

Locking a programme number

1 Press the Navigation buttons to scroll to select a programme number to be locked.

2 Press Yellow button to turn the programme number.

3 Press Yellow button to release.

NOTE

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

Selecting favourite programme

1 Press the Navigation buttons to scroll to select your desired programme.

2 Press the **FAV** to add corresponding programme to Favourite list of current Favourite group.

3 Press **FAV** to release.

Selecting favourite programme group

1 Press the Navigation buttons to scroll to select your desired programme.

2 Press the **Q.MENU** to display a pop-up window where Favourite group can be changed.

3 Press the Navigation buttons to scroll to select a Favourite group and press **OK**.

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Selecting the programme list

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

Displaying programme LIST

1 Press **LIST** to access the Programme List.

2 Press Blue button to turn the programme edit.

NOTE

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

Selecting a programme in the programme list

1 Press Navigation buttons to select programme.

2 Press **OK** to switch to the chosen programme number.

NOTE

- Press **TV/RAD. (**The mode will be switched between TV, DTV, and Radio from the programme you are currently watching.)

Paging through a programme list

1 Press the **P** ∧ ∨ buttons to turn the pages.

2 Press **LIST** to return normal TV viewing.

Displaying the favourite programme list

1 Press **FAV** to access the Favourite Programme List.

2 When you are finished, press **EXIT**.

Button	Description
Blue button	Turn the programme edit.
Yellow button	Current channel is registered/ cancelled as preferred channel on currently selected Group.
OK	Selects a programme to view
< or **>**	Favourite group is changed.

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EPG (Electronic Programme Guide) (In digital mode)

This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.
The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).
This function can be used only when the EPG information is broadcast by broadcasting companies. You must set the Clock in the **Time** menu, before using EPG function.
The EPG displays the programme details for 8 days.

- Image shown may differ from your TV.



- Press **INFO** to show current programme information.

	Displayed with a TV or DTV Programme.
	Displayed with a Radio Programme.
MHEG	Displayed with a MHEG Programme.
HE-AAC	Displayed with a HE-AAC Programme.
4:3	Aspect ratio of broadcasting programme.
16:9	Aspect ratio of broadcasting programme.
	Displayed with a Teletext Programme.
	Displayed with a Subtitle Programme.
	Displayed with a Scramble Programme.
D	Displayed with a Dolby Digital Programme.
D+	Displayed with a Dolby Digital PLUS Programme.
576i/p, 720p, 1080i/p : Resolution of broadcasting programme	
	Broadcasted programme with the icon may not be displayed in Monitor Out depending on the information of the programme.

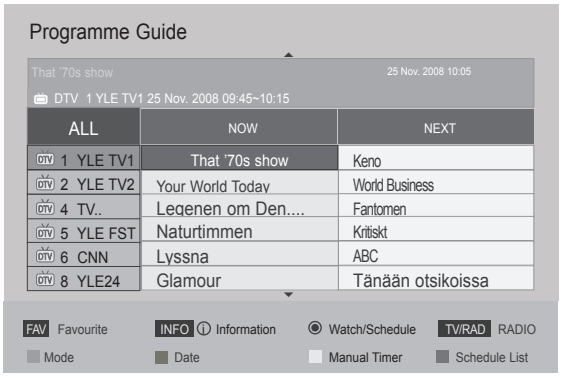
>	Shows next programme information.
∨ or ∧	Shows other programme information.

Switch on/off EPG

1 Press **GUIDE** to switch on or off EPG.

Select a programme

1 Press Navigation buttons or P ∧ ∨ to select desired programme.



NOW/NEXT Guide Mode

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

Button	Description
Red button	Change EPG mode.
Yellow button	Enter Manual Timer mode.
Blue button	Enter Schedule List mode.
OK	When 'Now' is selected, it is moved to selected programme and EPG disappears When 'Next' is selected, a reservation pop-up window appears.
< >	Select NOW or NEXT Programme.
^ v	Select the Broadcast Programme.
P ^ v	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.

8 Day Guide Mode

Button	Description
Red button	Change EPG mode.
Green button	Enter Date setting mode.
Yellow button	Enter Manual Timer mode.
Blue button	Enter Schedule List mode.
OK	When 'Currently broadcasting programme is selected, it is moved to selected programme and EPG disappears When 'Future broadcasting programme is selected, a reservation pop-up window appears.
< >	Select Programme.
^ v	Select the Broadcast Programme.
P ^ v	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.

Date Change Mode

Button	Description
Green button	Switch off Date setting mode.
v	
BACK	
OK	Change to the selected date.
< >	Select a date.
GUIDE	Switch off EPG.
EXIT	

Extended Description Box

Button	Description
INFO	The detail information on or off.
^ v	Text Up/Down.
< >	Select Timer Record/Remind setting mode.
GUIDE	Switch off EPG.
EXIT	

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Using additional options

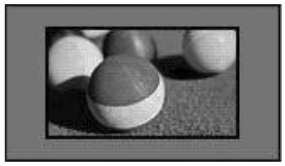
Adjusting aspect ratio

Resize an image to view at its optimal size by pressing **RATIO** while you are watching TV.

NOTE

- You can also change the image size by pressing **Q. MENU** or accessing **Aspect Ratio** in the Picture menus.
- For Zoom Setting, select **14:9**, **Zoom** and **Cinema Zoom** in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- 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 Analogue/DTV/AVmode, **Full Wide** is available.

- **16:9**: Resizes images to fit the screen width.



- **Just Scan**: Displays video images in the original size without removing parts at the edge of the image.



NOTE

- If you select **Just Scan**, you may see image noises at the edge of the original signal.

- **Original**: When your TV receives a wide screen signal it will automatically change to the picture format broadcasted.



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- **Full Wide**: When TV receives the wide screen signal, it will let you 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.



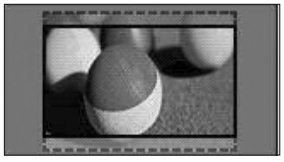
- **4:3**: Resizes images to the previous standard 4:3.



- **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.



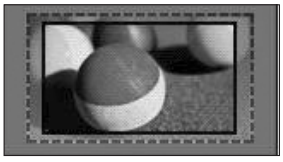
- **Zoom**: Enlarges an image to fit the screen width. The top and bottom of the image may not appear.



NOTE

- If you access, **Aspect Ratio** in the quick menus,
  - Press the Navigation buttons to stretch an image vertically.
  - Press the Navigation buttons to move the zoom focus up or down.

- **Cinema Zoom**: Enlarges an image in the cinemascope ratio, 2.35:1.
  - To change the ratio of the cinema zoom, press the Navigation buttons and its range is from 1 to 16.
  - To move the zoom focus up or down, press the Navigation buttons.



NOTE

- If you enlarge or reduce an image, the image may be distorted.

Changing AV modes

Each AV mode has the optimized image and sound settings.
Press **AV MODE** repeatedly to select an appropriate mode.

Mode	Description
Off	Changes to the previously customized settings
Cinema	Use the optimized image and sound settings for the cinematic look
Sport	Use the optimized image and sound setting for dynamic action sports
Game	Use the optimized image and sound settings for fast gaming 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.

NOTE

- If you select **Off** in AV mode, the picture and image which you initially set will be selected.

Using the input list

Selecting an input source

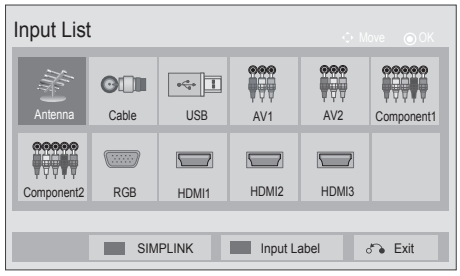
1 Press **INPUT** to access the input sources.
- The connected device displays on each input source.

NOTE

- You can also access the input source list by selecting **INPUT** in the main menus.

2 Press Navigation buttons to scroll to one of the input sources and press **OK**.

- Image shown may differ from your TV.



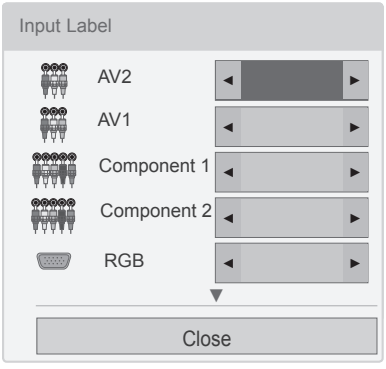
Input source	Description
Antenna or **Cable**	Select it when watching the DTV/RADIO/TV.
USB	Select it when using USB depends on connector.
AV	Select it when watching the VCR or external equipment.
Component	Select it when using the DVD or the Digital set-top box depends on connector.
RGB	Select it when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

The connected input sources display in black and the disconnected input sources in grey.
- To add an input label, press the Blue button. You can easily identify a device connected to each input source.

Adding an Input label

Add a label to an input source so that you can easily identify a device connected to each input source.

- Image shown may differ from your TV.



1 Press **INPUT** to access the input sources.

2 Press the **Blue** button.

3 Press the Navigation buttons to scroll to one of the input sources

4 Press the Navigation buttons to scroll to one of the input labels.

5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Locking the buttons on the TV (Child Lock)

Lock the buttons on the TV to prevent any unwanted operations or accidents by children.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **LOCK** and press **OK**.

3 Press Navigation buttons to scroll to **Key Lock** and press **OK**.

4 Select **On** to activate the Key lock feature.

- To deactivate the Key lock feature, select **Off**.

5 When you are finished, press **EXIT**.

When you return to the previous menu, press **BACK**.

NOTE

- The TV is programmed to remember the last setting after you turn the TV off.
- If you turn the TV off with the **Key Lock** feature activated, press the ⏻, **INPUT**, **P** ∧ ∨ or Number buttons on the remote control.
- If you press any button on the TV with the Key lock feature activated, **Key Lock** appears on the screen.

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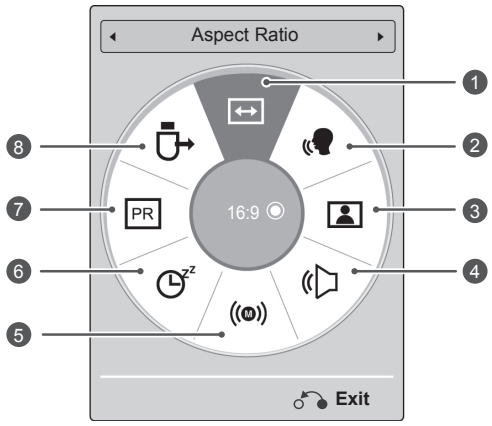
Using the quick menu

Customize the frequently using menus.

1 Press **Q. MENU** to access the quick menus.

2 Press Navigation buttons to scroll through the following menus and press **OK**.



	Menu	Description
❶	**Aspect Ratio**	Changes the image size (16:9, Just Scan, Original, Full Wide, 4:3, 14:9, Zoom, Cinema Zoom)
❷	**Clear Voice II**	By differentiating the human sound range from others, it helps users listen to human voices better.
❸	**Picture Mode (Depending on model)**	Changes the image mode (Intelligent Sensor, Vivid, Standard,Cinema, Bright Room, Sport, Game, Expert1, Expert2)
❹	**Sound Mode**	Changes the sound mode (Standard, Music, Cinema, Sport, Game)
❺	**Audio**	Changes the sound output.
❻	**Sleep Timer**	Sets the length of time until the TV to turns off
❼	**Skip Off/On**	Sets the Skip Off/On.
❽	**USB Device**	Ejects a USB device when a USB device is connected

NOTE

- The available menus and options may differ from the input source that you are using.

3 Press Navigation buttons to scroll to the option you want.

4 When you are finished, press **Q. MENU.**

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Using the customer supprot

Testing Software Update

This feature is not available for LW4500.
To download sofrware through the digital terrestrial broadcasting system.

1 Press **Home** to access the main menus.

2 Press the Red button to scroll **Customer Support**.

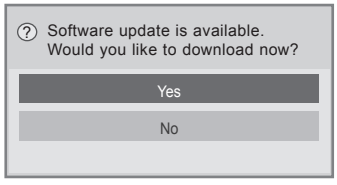
3 Press the Navigation buttons to scroll **Software Update.**

4 Press the Navigation buttons to scroll to **On** and press **OK**.
- If you select **On**, a user confirm message box will be displayed to notify that new software is found.

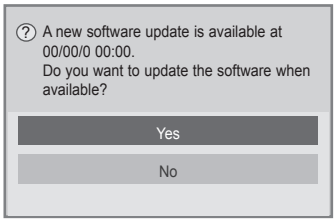
5 When you are finished, press **EXIT.**
When you return to the previous menu, press **BACK**.

When setting **"Software Update"**

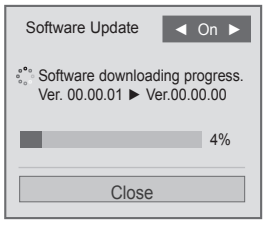
- Occasionally, a transmission of updated digital software information will result in the following menu on the TV screen.



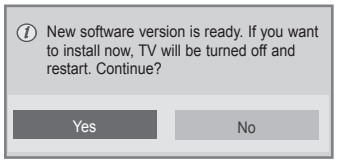
- Simple Update : for current update stream



- 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**" is selected.



NOTE

- During Progress of a **Software Update**, please note the following:
  - Power to the TV must not be interrupted.
  - The antenna must not be disconnected.
  - 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.
  - 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.

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Testing the Picture / Sound

To execute picture and sound tests.

1. Press **Home** to access the main menus.
2. Press the Red button to scroll **Customer Support**.
3. Press the Navigation buttons to scroll **Picture Test** or **Sound Test**.
4. Press the Navigation buttons to scroll to **Yes** and press **OK**.
5. When you are finished, press **EXIT**.
   When you return to the previous menu, press **BACK**.

Using Signal Test

To view information on the Manufacturer, Model/ Type, Serial Number and Software Version.

1. Press **Home** to access the main menus.
2. Press the Red button to scroll **Customer Support**.
3. Press the Navigation buttons to scroll **Signal Test.**
4. Press **OK**.
   - Manufacturer, Model/Type, Serial Number, Software Version and information of Channel.
5. When you are finished, press **EXIT**.
   When you return to the previous menu, press **BACK**.

Using the product or service information

To check the product or service information

1. Press **Home** to access the main menus.
2. Press the Red button to scroll **Customer Sup port**.
3. Press the Navigation buttons to scroll **Product/ Service Info.**.
   You can check the various product/Service infomation based on your model.
4. When you are finished, press **EXIT**.
   When you return to the previous menu, press **BACK**.

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3D IMAGING

3D Technology

This TV can display in 3D via 3D broadcasting or when the TV is connected to a compatible device, such as a Blu-ray 3D Player. You need such a device to watch the TV in 3D. The 3D TV displays two separate pictures formatted for each eye. The viewer needs to wear 3D glasses in order to see these images in 3D format.

WARNING

- When watching 3D images, you should maintain a distance of at least twice the screen width, and you should also be able to see all of the screen at eye level.
- If you watch the 3D imaging too closely or for a long period of time, it may harm your eyesight.
- Watching the TV or playing video games that incorporate 3D imaging with the 3D glasses for a long period of time can cause drowsiness, headaches or fatigue to you and/or your eyes. If you have a headache, or otherwise feel fatigued or drowsy, stop watching the TV and take a rest.
- Pregnant woman, seniors, persons with heart problems or persons who experience frequent drowsiness should refrain from watching 3D TV.
- Some 3D imaging may cause you to duck or dodge the image displayed in the video. Therefore, it is best if you do not watch 3D TV near fragile objects or near any objects that can be knocked over easily.
- Please prevent children under the age of 5 from watching 3D TV. It may affect their vision development.
- Warning for photosensitization seizure: Some viewers may experience a seizure or epilepsy when exposed to certain factors, including flashing lights or images in TV or video games. If you or anybody from your family has a history of epilepsy or seizure, please consult with your doctor before watching 3D TV.

  Also certain symptoms can occur in unspecified conditions without any previous history. If you experience any of the following symptoms, immediately stop watching the 3D imaging and consult a doctor: dizziness or lightheadedness, visual transition or altered vision, visual or facial instability, such as eye or muscle twitching, unconscious action, convulsion, loss of conscience, confusion or disorientation, loss of directional sense, cramps, or nausea. Parents should monitor their children, including teenagers, for these symptoms as they may be more sensitive to the effects of watching 3D TV.
- Risk of photosensitization seizure can be reduced with the following actions.
  - » Take frequent breaks from watching 3D TV.
  - » For those who have vision that is different in each eye, they should watch the TV after taking vision correction measures.
  - » Watch the TV so that your eyes are on the same level as the 3D screen and refrain from sitting too closely to the TV.
  - » Do not watch the 3D imaging when tired or sick, and avoid watching the 3D imaging for a long period of time.
  - » Do not wear the 3D glasses for any other purpose than viewing 3D imaging on a 3D TV.
  - » Some viewers may feel disoriented after watching 3D TV. Therefore, after you watch 3D TV, take a moment to regain awareness of your situation before moving.

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NOTE

- To watch the TV in 3D, you must put on your 3D glasses. For best results, you should wear LG Brand 3D glasses. The 3D imaging may not display properly when using another brand of 3D glasses. Please see the 3D glasses manual for instructions on how to use the 3D glasses.
- After powering on the TV, a few seconds may be needed for your TV to calibrate.
- It may take a moment for you to see the 3D imaging if you look away from the TV and then revert your eyes back to the 3D program.
- If there is an obstacle between the TV and the 3D glasses, the 3D imaging may not display properly.
- Do not use the TV in close proximity to other electronic equipments and RF equipments.
- When watching 2D images, it is recommended to take off the 3D glasses. If you watch 2D images with the 3D glasses on, you may see distorted images.

When Using 3D Glasses

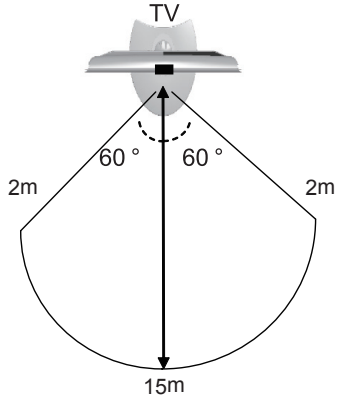
CAUTION

- 3D glasses are sold separately. Refer to the 3D glasses manual for operating instructions.
- Do not use the 3D glasses to replace your corrective glasses, sunglasses or protective goggles.
- Do not store the 3D glasses in hot or cold locations.
- Do not drop objects onto the 3D glasses. Do not drop or bend the glasses.
- Since the lenses of the 3D glasses are easily scratched, make sure to clean only with a soft cloth. Shake off any dust before using the cloth since the glasses are easily scratched.

3D Imaging Viewing Range

TV size, viewing angle & other circumstances may change the viewing distance and the angle of view.

Viewing Distance	2 m to 10 m
Viewing Angle	120º (When the viewing distance is 2 m)



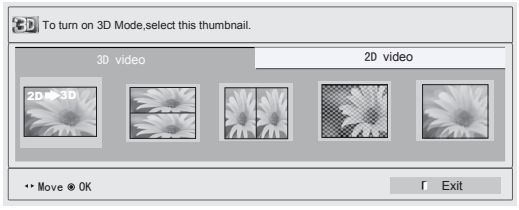
Watching 3D images

1 Play the video produced in 3D.

2 Press **3D**.

3 Press the Navigation buttons to scroll the **3D video** or **2D video** and press **OK**.

4 Press the Navigation buttons to scroll the shape and press **OK**.



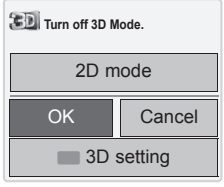
5 Wear the 3D glasses.

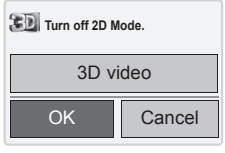
6 Press the Navigation buttons to scroll the **OK** and press **OK**.

- Image shown may differ from your TV.



7 Press **3D** button to **Turn off 3D mode** or **Turn off 2D mode**.

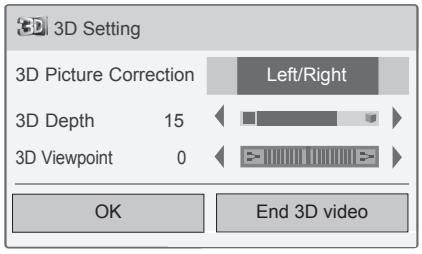




Using 3D quick menu option

1 Press **3D SETTING**.

2 Use the following options while viewing 3D imaging.



Button	Description
3D Picture Correction	Changes the order of images in the right and left sides of the picture in 3D mode.
3D Depth	Adjusts the distance between the object and the background in the picture to enhance the 3D effect in 2D to 3D mode.
3D Viewpoint	Brings the picture (including both the object and background images) to the front or back to enhance the 3D effect in 3D mode.

CAUTION

- Some menus may not work while watching the TV in 3D.
- If used 3D effect on the 2D source, 3D may not work.
- The 3D imaging mode is disabled automatically when switching DTV channels or input source.
- The screen may not be displayed properly if you view 2D DTV images in 3D imaging mode.
- 3D effect can be seen when 3D Mode is selected appropriately for the 3D input signal supplied to the TV.
- For *mpo files (3D camera files), the 3D imaging mode is enabled automatically.
- 3D may not be displayed properly for some PC graphics cards.

CAUTION

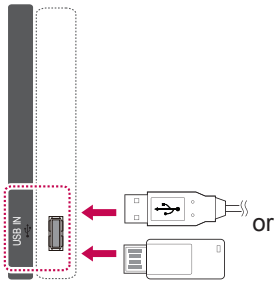
- If you select 3D mode, “Power indicator” is turned off automatically.
- While watching 3D imaging, you cannot adjust video/audio settings using the menu.
- You can only choose “Standard → Cinema → Game” with the **AV MODE** button on the remote control. **AV Mode** is set as **Standard** while playing in 3D.
- If you’d like to play the BGM using *.mpo file(3D camera file), In advance, the contents path for BGM should be set on full-sized photo view screen which isn’t *.mpo file(3D camera file).
- Picture mode is set as Standard, Energy Saving Off if entering to 3D mode.

ENTERTAINMENT

Connecting USB storage devices

Connect USB storage devices such as a USB flash memory, external hard drive to the TV and use multimedia features (See “Browsing files”on p.33).
Connect a USB flash memory or USB memory card reader to the TV as shown on the following illustration. The My media screen appears.

- Image shown may differ from your TV.



To disconnect a USB storage device, make sure to end the connection properly to prevent damages to the TV or files.

1. Press **Q.MENU** to access the quick menus.
2. Press the Navigation buttons to scroll to **USB Device** and press **OK**.
3. Press the Navigation buttons to scroll to **Eject** and press **OK**.
4. Disconnect the USB storage device only when the message says that it is safe to remove.

CAUTION

- Do not turn the TV off or remove a USB storage device while the USB storage device is connected to the TV, as this could result in loss of files or damage to the USB storage device.
- Back up your files saved on a USB storage device frequently, as you may lose or damage the files and this may be not covered by the warranty.

Tips for using USB storage devices

- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recog nizable.
- A USB storage device using an automatic recognition programme may not be recog nized.
- 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 stor age device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be dam aged.
- 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 op erating 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 sup ported 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

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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.

Browsing files

Access the photo, music, or movie lists and browse files.

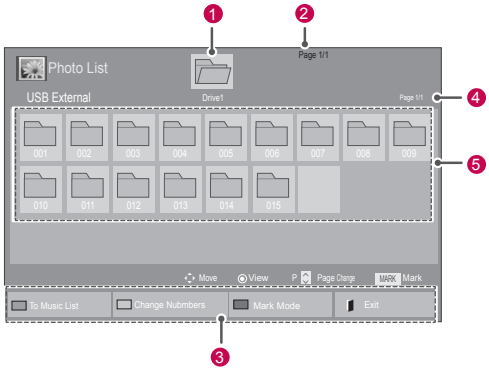
1 Connect a USB storage device.

2 Press **Home** to scroll to main menus.

3 Press the Navigation buttons to scroll to **My Media** and press **OK**.

4 Press Navigation buttons to scroll to **PHOTO LIST**, **MUSIC LIST**, or **MOVIE LIST** and press **OK**.





No.	Description
1	Moves to upper level folder
2	Current page/Total pages
3	Corresponding buttons on the remote control
4	Current page/ total pages of contents under the folder focused on 1
5	Contents under the folder focused on 1
Green button	Repeatedly, press the GREEN button to converted to **Photo List**->**Music List**, **Music List**->**Movie List** or **Movie List**->**Photo List**.
Yellow button	A method to view in 5 large thumbnail or simple list.
Blue button	Convert to Mark Mode.

Supported file format

<table>
<tr><th>Type</th><th colspan="4">Supported file format</th></tr>
<tr><td>Movie</td><td colspan="4">DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV, TS,TRP,TP,ASF,WMV,FLV , RMVB.

Movie(*.mpg/*.mpeg/*dat/*.ts/*.trp/*.tp/*. vob/*.mp4/*.mov/*.mkv/*.dvix/*.avi/*.asf/*. wmv/*.flv/*.avi(motion-jpeg)/*.rmvb/**.rmb/ *.mp4(motion-jpeg)/*.mkv(motion-jpeg))sup-porting 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, HE-AAC, 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)

Internal Subtitle format : only, XSUB (It is the subtitle format used in DivX6 files)</td></tr>
<tr><td>Photo</td><td colspan="4">JPEG

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.</td></tr>
<tr><td></td><td colspan="4">Only 3D Models</td></tr>
<tr><td></td><td>File Extensions</td><td>Item</td><td colspan="2">Profile</td></tr>
<tr><td></td><td>2D</td><td>jpeg
jpg
jpe</td><td>supported file format</td><td colspan="2">• SOF0: baseline
• SOF1: Extend Sequential
• SOF2: Progressive</td></tr>
<tr><td></td><td></td><td></td><td>photo size</td><td colspan="2">• Min: 64 X 64
• Max-Normal Type: 15360 (W) X 8640 (H)
• Progressive Type: 1920 (W) X 1440 (H)</td></tr>
<tr><td></td><td>3D</td><td>mpo</td><td>supported file format</td><td colspan="2">mpo</td></tr>
<tr><td></td><td></td><td></td><td>photo size</td><td colspan="2">• 4:3 size: 3,648 X 2,736
2,592 X 1,944
2,048 X 1,536
• 3:2 size: 3,648 X 2,432</td></tr>
<tr><td>Music</td><td colspan="4">MP3

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</td></tr>
</table>

Viewing movies

Play video files on the TV. Your TV displays all of the video files saved in a USB storage device or shared folder on a PC.

- Image shown may differ from your TV.

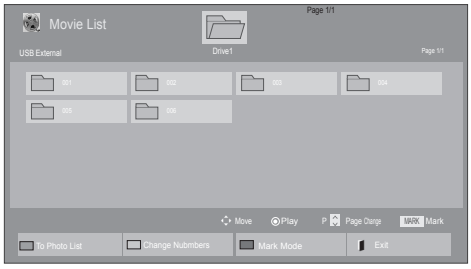
1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

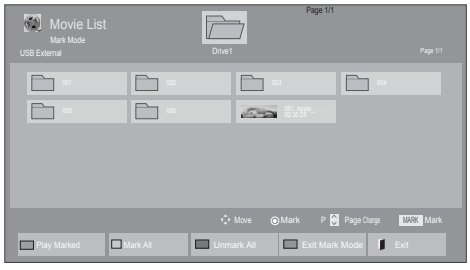
2 Press the Navigation buttons to scroll to **Movie List** and press **OK**.

3 Select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.





Menu	Description
Play Marked	Play the selected movie file. Once a movie file finishes playing, the next selected one will be played automatically.
Mark All	Mark all movie files on the screen.
Unmark All	Deselect all marked movie files.
Exit Mark Mode	Exit the Mark Mode.

6 Play a movie.

NOTE

- Non-supported files are displayed the preview image by icon only .
- Abnormal files are displayed in the form of bitmap .

7 Control playback by using the following buttons.



Button	Description
■	Stops the playback
▶	Plays a video
II	Pauses or resumes the playback
◀◀	Scans backward in a file
▶▶	Scans forward in a file
Home or **Q.MENU**	Show the **Option** menu.
BACK	Hide the menu on the full-sized screen.
EXIT	Return to **Movie List**.
< or >	Skips to specific points in a file during playback. The time of a specific point will appear on the status bar. In some files, this function may not work properly.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to increase the brightness of your screen.
AV MODE	Press the AV MODE button repeatedly to select the desired source.

Tips for using playing video files

- 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.
- 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.
- Files encoded with GMC(Global Motion Compensation) may not be played.
- 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.

Video options

1 Press **Q. MENU** to access the **Pop-Up** menus.

2 Press the Navigation buttons to scroll to **Set Video Play., Set Video. , Set Audio.** or **Set 3D Video.**and press **OK**.

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.

When you select the **Set Video Play,**,

1 Press the Navigation buttons to scroll to show the **Picture Size, Audio Language, Subtitle Language** or **Repeat**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

Menu	Description
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,**,

1 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Audio,**,

1 Press the Navigation buttons to scroll to show the **Sound Mode, Auto Volume, Clear Voice II** or **Balance**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

Viewing photos

View image files saved in a USB storage device or shared folder on a PC through the network connection. The displays on the screen may differ from the model.

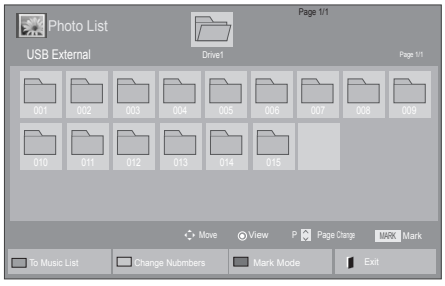
1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

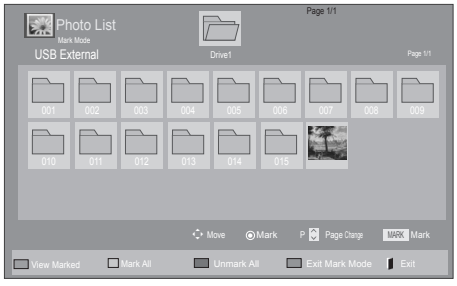
2 Press the Navigation buttons to scroll to **Photo List** and press **OK**.

3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.





Menu	Description
View Marked	Display the selected photo file.
Mark All	Mark all photo files on the screen.
Unmark All	Deselect all marked photo files.
Exit Mark Mode	Exit the Mark Mode.

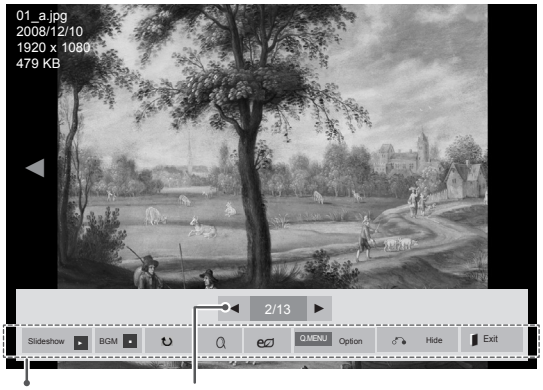
6 View photos.

NOTE

- Non-supported files are displayed the pre-view image by icon only .
- Abnormal files are displayed in the form of bitmap .

Using photo options

Use the following options while viewing photos.



Option	Description
Slideshow	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. To set a slideshow speed, select **Option**.
BGM	Turns the background music on or off. To set the background music folder, select **Option**. You can adjust Option by Q.MENU or Home button on the remote control.
↻ (Rotate)	Rotates photos clockwise (90°, 180°, 270°, 360°). NOTE • The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
	View the photo by zoom in 2, 4 times.
	Press the **ENERGY SAVING** button repeatedly to change the brightness of your screen.
Q.MENU Option	• **Slide Speed**: Selects a slideshow speed (**Fast**, **Medium**, **Slow**). • **BGM**: Selects a music folder for the background music. NOTE • You cannot change the music folder while the background music is playing. • You can only select the MP3 folder saved on the device that currently displays the photo.
Hide	Hides the option window. To display the options, press **OK**.
EXIT	Return to **Photo List**.

Photo options

1 Press **Q. MENU** or **Home** to show the **Option** menus.

2 Press the Navigation buttons to scroll to **Set Photo View.**, **Set Video.** , **Set Audio.** or **Set 3D video.** and press **OK**.

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**,

1 Press the Navigation buttons to scroll to select **Slide Speed** or **BGM.**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Video**,

1 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Audio,**,

1 Press the Navigation buttons to scroll to show the **Sound Mode, Auto Volume, Clear Voice II** or **Balance**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

Listening to music

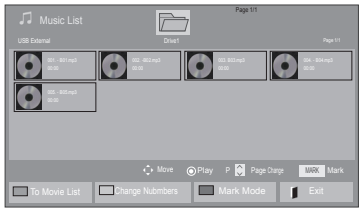
1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

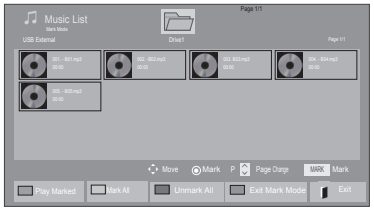
2 Press the Navigation buttons to scroll to **Music List** and press **OK**.

3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.

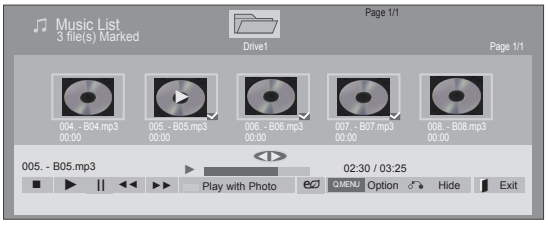




Menu	Description
Play Marked	Display the selected music file.
Mark All	Mark all music files on the screen.
Unmark All	Deselect all marked music files.
Exit Mark Mode	Exit the Mark Mode.

6 Play music.

7 Control playback by using the following buttons.



Button	Description
■	Stops playback
▶	Plays a music file
II	Pauses or resumes playback
▶▶	Skips to the next file
◀◀	Skips to the previous file
◀◀ or ▶▶	When playing, When you press the ◀◀ button, the previous music file will be played. When you press the ▶▶ button, the next music file will be played.
Green button	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.
Home or **Q.MENU**	Show the Option menu.
Hide	Hides the option window. To display the options, press **OK**.
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.
< or >	When using the **<** or **>** button during playback a cursor indicating the position can be played.

Tips for playing music files

- This unit cannot support the ID3 Tag embedded MP3 files.

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NOTE

- Non-supported files are displayed the pre-view image by icon only .
- Abnormal files are displayed in the form of bitmap .
- A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- If you press OK, ■ buttons, screen saver is stopped.
- The PLAY(▶), Pause(❚❚), ■ , ▶▶, ◀◀ buttons on the remote control are also available in this mode.
- You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.



Music options

1 Press **Q. MENU** to access the **Pop-Up** menus.

2 Press the Navigation buttons to scroll to **Set Audio Play.** or **Set Audio.** and press **OK**.

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 Audio Play.**,

1 Press the Navigation buttons to scroll to select the **Repeat** or **Random**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Audio,**,

1 Press the Navigation buttons to scroll to select the **Sound Mode, Auto Volume, Clear Voice II** or **Balance**.

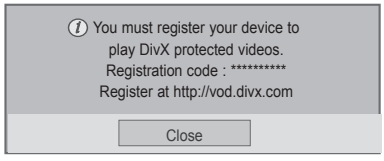
2 Press the Navigation buttons to scroll to make appropriate adjustments.

DivX VOD Registration

Registering the DivX code

Check and register the DivX registration code of your TV so that you can rent or purchase the latest movies at www.divx.com/vod. To play a rented or purchased DivX file, the file's registration code should be same with your TV's DivX registration code.

1. Press **Home** to access the main menus.
2. Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.
3. Press the Blue button.
4. Press the Navigation buttons to scroll to **DivX VOD Registration** and press **OK**.
5. View the registration code of your TV.
6. When you are finished, press **EXIT.**
   When you return to the previous menu, press **BACK**.



DivX Deregistration

Deactivate all of the devices through the web server and block devices from activating.
Delete the existing authentication information to receive a new DivX user authentication for the TV. Once this function is executed, a DivX user authentication is required again to see DivX DRM files.

1. Press **Home** to access the main menus.
2. Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.
3. Press the Blue button.
4. Press the Navigation buttons to scroll to **DivX Deregistration** and press **OK**.
5. Press the Navigation buttons to select **Yes** to confirm.



6. When you are finished, press **EXIT.**
   When you return to the previous menu, press **BACK**.

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.

CUSTOMIZING TV SETTINGS

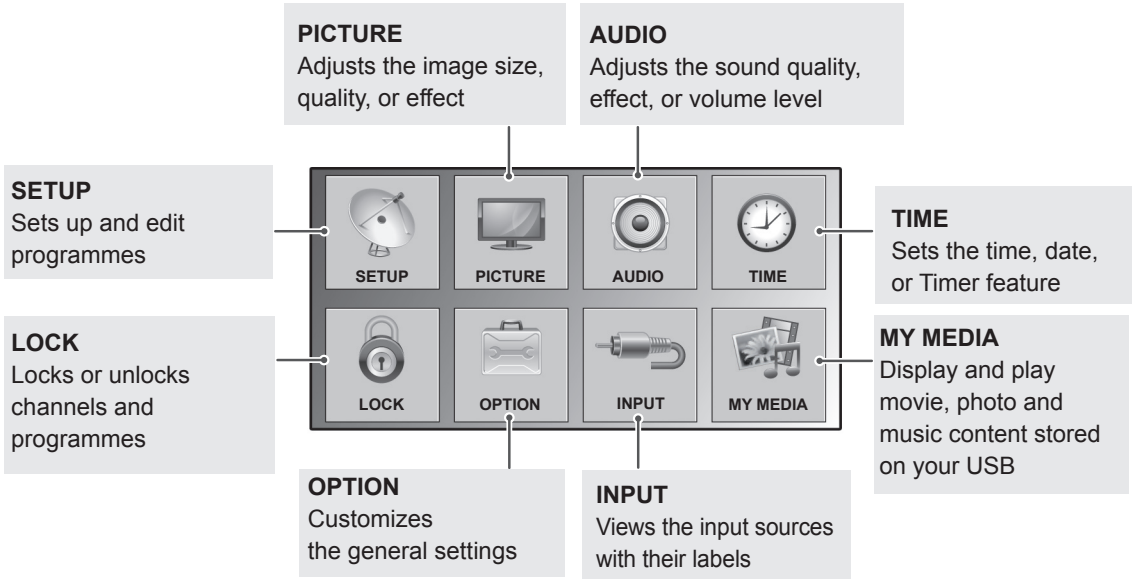
Accessing main menus

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.

3 Press Navigation buttons to scroll to the setting or option you want and press **OK**.

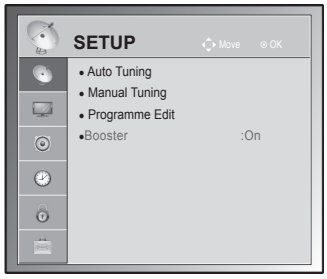
4 When you are finished, press **EXIT**.



Customizing settings

SETUP settings

- Image shown may differ from your TV.



1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT.**

The available Programme settings are described in the following:

Setting	Description
Auto Tuning	Tunes and stores all available programmes through antennas or cable inputs.
Manual Tuning	Tunes and stores the programmes you want manually .
Programme Edit	Adds or deletes programmes on the programmes.
Booster(In Digtal Mode)	If reception is poor select Booster to On.When the signal is strong,select “Off”.

PICTURE settings

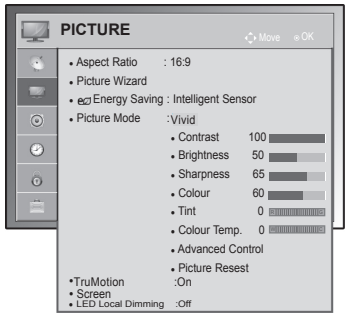
1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT.**

• Image shown may differ from your TV.



The available picture settings are described in the following.

Setting	Description
Aspect Ratio	Changes the image size to view images at its optimal size.
Picture Wizard	Adjusts the image quality and calibrates the screen by following the on-screen instructions. The customized options will be saved as **Expert1** in the **Picture Mode**. NOTE · If you stop the setting before the final stage, the changes will not be applied. · If you use **Picture Wizard**, the Energy saving feature will turn off automatically. · In RGB-PC/HDMI-PC/DVI-PC mode, the changed **Colour**, **Tint** and **H/V Sharpness** values are not applied.
Energy Saving	Reduces the power consumption by adjusting the screen brightness. **NOTE** · 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(Depending on model), **Maximum**", **Backlight** feature will not work.

Option	
Auto	The most suitable brightness is automatically adjusted according to the surrounding conditions.
Off	The Energy Saving is off
Minimum/Medium/Maximum	Selects the brightness level.
Screen Off	The screen turns off in 3 seconds.

<table>
<tr><th>Setting</th><th colspan="2">Description</th></tr>
<tr><td>Picture Mode</td><td colspan="2">Selects one of the preset image or customizes options in each mode for the best TV screen performance. You are also able to customize advanced options of each mode.
The available preset picture modes vary depending on the TV.
NOTE
• If you select Intelligent Senesor, the option of the Energy saving feature will switch to Auto automatically.</td></tr>
<tr><td></td><td colspan="2">Mode</td></tr>
<tr><td></td><td>Intelligent Sensor</td><td>Sets the TV to adjust the image settings, such as contrast, brightness, sharpness, colour, or tint, automatically corresponding to the surrounding environments.</td></tr>
<tr><td></td><td>Vivid</td><td>Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.</td></tr>
<tr><td></td><td>Standard</td><td>Adjusts the image for the normal environment.</td></tr>
<tr><td></td><td>Cinema (Depending on models)</td><td>Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.</td></tr>
<tr><td></td><td>Sport</td><td>Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.</td></tr>
<tr><td></td><td>Game</td><td>Optimizes the video image for a fast gaming screen such as PCs or games.</td></tr>
<tr><td></td><td>Expert</td><td>Adjusts the detailed video image settings for video experts as well as general viewers.</td></tr>
<tr><td>TruMotion</td><td colspan="2">Advance video technology that provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture.
TruMotion works with all inputs except PC mode.
NOTE
■ If you enable “TruMotion”, noise may appear on the screen. If this occurs, set “TruMotion” to “Off”.
■ If you select “Picture Mode-Game ”, set “TruMotion” to “Off”.</td></tr>
<tr><td></td><td colspan="2">Mode</td></tr>
<tr><td></td><td>High</td><td>Provides smoother picture movement.</td></tr>
<tr><td></td><td>Low</td><td>Provides smooth picture movement. Use this setting for standard use.</td></tr>
<tr><td></td><td>Off</td><td>Turn off TruMotion operation.</td></tr>
<tr><td></td><td>User</td><td>De-Judder: Adjusts noise of the screen.
De-Blur: Adjusts after-image of the screen.</td></tr>
<tr><td>SCREEN</td><td colspan="2">Customizes the PC display options.</td></tr>
<tr><td></td><td colspan="2"></td></tr>
<tr><td></td><td>Resolution</td><td>Selects a proper resolution when your PC uses.</td></tr>
<tr><td></td><td>Auto Configure</td><td>Sets the TV to optimize the options automatically for the TV display.</td></tr>
<tr><td></td><td>Position</td><td>Locates the image at the proper position.</td></tr>
<tr><td></td><td>Size</td><td>Adjusts the image size.</td></tr>
<tr><td></td><td>Phase</td><td>Eliminates horizontal streaking.</td></tr>
<tr><td></td><td>Reset</td><td>Restores the options to the default setting.</td></tr>
<tr><td>LED LOCAL DIMMING</td><td colspan="2">After analyzing the signal of the input video by areas of the screen, it adjusts the backlight to improve the contrast ratio.</td></tr>
</table>

Basic image options

Setting	Description
Backlight	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss. • If you use the "**Energy saving - Auto, Minimum, Medium, Maximum**", **Backlight** will not be available. • 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.
Contrast	Increases or decreases the gradient of the video signal. 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.	Set to warm to enhance hotter colours such as red, or set to cool to enhance cooler colours such as blue.
Advanced Control	Customizes the advanced options
Picture Reset	Restores the options of each mode to the factory default

NOTE

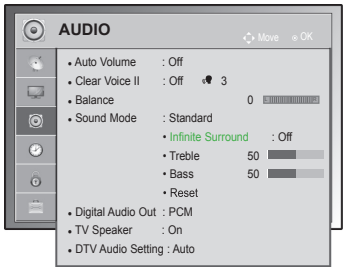
• You cannot adjust colour, sharpness and tint in the RGB-PC/HDMI-PC mode.

Advanced image options

Setting	Description
Dynamic Contrast	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	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.
Clear White	Makes the white area of the screen brighter and clearer.
Skin Colour	Adjusts skin colour of the picture so that user can set his favourite skin colour.
Noise Reduction	Reduces screen noise without compromising video quality.
Digital Noise Reduction	Reduces noise regarding MPEG compressed video.
Gamma	You can adjust brightness of dark area and middle gray level area of the picture. » Low: Make the dark and middle gray level areas brighter. » Medium: Express the original picture level. » High: Make the dark and middle gray level area darker.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: AV (NTSC-M), HDMI, Component or USB(Only Plasma TV). » Low: The reflection of the screen gets darker. » High: The reflection of the screen gets brighter. » Auto : Sets black level of the screen to High or Low automatically according to the input signal level.
Eye Care	Adjusts the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is disable in “**Picture Mode**-**Vivid**, **Cinema**, **Expert1**, **Expert2**, **Intelligent Sensor**.”
Real Cinema	You can watch a cinema-like video by eliminating judder effet. Use this function when you watch film-originated movie contents.
Colour Gamut	Maximizess the utilization of colour to increase colour quality. » Standard: Displays standard set of colours. » Wide: Increase number of colours used.
XVYCC (available in Cinema and Expert modes)	*This feature is not available for all models. This is the function to express richer colours. This feature represents rich colours as much as a conventional video signal. This function is enabled in “**Picture Mode** - **Cinema**, **Expert**” when xvYCC signal is inputted through HDMI.

AUDIO settings

- Image shown may differ from your TV.



1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.

- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available audio settings are described in the following.

Setting	Description	
Auto Volume	Activates the Auto Volume feature to keep the volume level consistent whenever you change channels. The volume level may not be consistent due to different signal conditions of broadcasting stations.	
Clear Voice Ⅱ	Sets whether to enhance human voice clarity. You can adjust the level of clarity when you set this feature on. NOTE • If you select “**On**” for **Clear Voice II**, **Infinite Surround** feature will not work. • Select levels from ‘-6’ to ’+6’.	
Balance	Adjust balance between the left and right speakers according to your room environment.	
Sound Mode	Selects one of the preset sound modes or customizes options in each mode.	
	Mode	
	Standard	Select when you want standard-quality sound.
	Music	Select when you listen to music.
	Cinema	Select when you watch movies.
	Sport	Select when you watch sports events.
	Game	Select when you play games.
	Option	
	Infinite Surround	**Infinite Surround** is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound impression with front two loudspeakers.
	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
	Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.
	Reset	Resets the sound mode to the default setting.

ENGLISH

<table>
<tr><th>Setting</th><th colspan="3">Description</th></tr>
<tr><td>Digital Audio Out</td><td colspan="3">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.
<table>
<tr><th>Item</th><th>Audio Input</th><th>Digital Audio output</th></tr>
<tr><td>Auto</td><td>MPEG
Dolby Digital
Dolby Digital Plus
HE-AAC</td><td>PCM
Dolby Digital
Dolby Digital
Dolby Digital</td></tr>
<tr><td>PCM</td><td>All</td><td>PCM</td></tr>
</table></td></tr>
<tr><td>TV Speaker</td><td colspan="3">Turns on the internal speaker of the TV when using an external Hi-Fi system. You can use the TV speaker as an audio output device even if there is no video input.
NOTE
• When the TV speaker is turned off while the Simplink home theater is operating, the sound output automatically switches to the Home theater speaker, but when the TV speaker is turned on, the sound output the TV speaker.
• Some menus in AUDIO are disabled when TV Speaker is set to Off.</td></tr>
<tr><td>DTV Audio Setting(In Digital Mode only)</td><td colspan="3">When different audio types exist in an input signal, this function allows you to select the audio type you want.
<table>
<tr><th colspan="2">Mode</th></tr>
<tr><td>Auto</td><td>Automatically outputs in the order HE-AAC > Dolby Digital+ > Dolby Digital > MPEG.(Except for Italy)
Automatically outputs in the order HE-AAC > Dolby Digital+ > MPEG > Dolby Digital.(Only Italy)</td></tr>
<tr><td>HE-AAC, Dolby Digital+, Dolby Digital, MPEG</td><td>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.</td></tr>
</table></td></tr>
</table>

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.

1 Press **Q. MENU** and press the Navigation to access the **Audio** and press **OK**.

2 Press the Navigation button to scroll to the sound output and press **OK**.

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

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

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

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

Nicam Reception (In Analogue Mode Only)

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.
Sound output can be selected according to the type of broadcast received.

1 When **NICAM** mono is received, you can select **NICAM MONO** or **FM MONO**.

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

3 When **NICAM** dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II 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.

TIME settings

- Image shown may differ from your TV.



1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **TIME** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available time settings are described in the following.

Setting	Description
Clock	Sets the time, date, time zone, and daylight-saving time feature. The time will be set automatically according to a digital channel signal which includes time information provided by the broadcasting station. If not, set the time and date manually.
Off Time/On Time	Sets the time to turn on or off the TV automatically. To use this function, you should set the current time and date in advance. **NOTE** • If you do not press any button within 2 hours after the TV turns on by the On Time feature, the TV enters the Standby mode automatically. • If you set both Off time and On time features to the same time, the Off time feature overrides the On time feature.
Sleep Time	Sets the length of time until the TV to turns off. When you turn the TV off and turn it on again, the Sleep timer feature will be set to off.

LOCK settings

- Image shown may differ from your TV.



1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **LOCK** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available lock settings are described in the following.

Setting	Description
Lock System	Activates or deactivates the lock system.
Set Password	Changes the 4-digit password. The default PIN is “0 0 0 0”. If you forget your password, press ‘0’, ‘3’,‘2’, ‘5’ on the remote control handset.
Block Programme	Blocks the programmes that contain inappropriate contents for children by pressing the Green button. The Lock icon appears in front of the blocked programmes. The programmes can be selected but the screen blank and the audio is muted. To watch a locked channel, enter the password. It is available to use this function in **Lock System** ”**On**”
Input Block	Block the input sources. It is available to use this function in **Lock System** ”**On**”
Key Lock	Locks or unlocks the buttons on the TV.

OPTION settings

- Image shown may differ from your TV.



1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT.**

The available general settings are described in the following.

Setting	Description	
Language	Selects a language for the display or audio.	
	Option	
	Menu Language	Select your desired language.
	Audio Language	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.
	Subtitle Language	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.
	NOTE • 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.	

ENGLISH

<table>
<tr><th>Setting</th><th colspan="2">Description</th></tr>
<tr><td>Country/Area</td><td colspan="2">Selects a desired country/area.
NOTE
• If you do not finish the set-up Installation Guide by pressing BACK or if you ime out on he 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.
• In country that Digital broadcasting regulation isn’t fixed, some DTV function may not work depending on digital broadcasting circumstances.</td></tr>
<tr><td>Hard of Hearing</td><td colspan="2">This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.</td></tr>
<tr><td rowspan="3">Power Indicator</td><td colspan="2">Sets to turn on or off the indicator light on the TV.</td></tr>
<tr><td>Option</td><td></td></tr>
<tr><td>Standby Light</td><td>Set to turn on or off the indicator light in Standby mode.</td></tr>
<tr><td></td><td>Power Light</td><td>Set to turn on or off the indicator light when you turn on the power.</td></tr>
<tr><td>MHEG Guide</td><td colspan="2">If you set the 'MHEG Guide' menu to On, the 'Digital Teletext' sent by broadcasters will be used. Note that'Digital Teletext' is not always present.</td></tr>
<tr><td>Factory Reset</td><td colspan="2">This function initializes all settings.
NOTE
• In Lock System “On”, if you forget your password, press ‘0’, ‘3’, ‘2’, ‘5’ on the remote control handset.</td></tr>
<tr><td>Set ID</td><td colspan="2">Adds an ID to the connected devices.</td></tr>
<tr><td rowspan="5">Mode Setting</td><td colspan="2">Default selection is “Home Use”. We recommend setting the TV to “Home Use” mode for the best picture in your home environment.」</td></tr>
<tr><td>Option</td><td></td></tr>
<tr><td>Home Use</td><td>Selects it for the home environment.</td></tr>
<tr><td>Store Demo</td><td>Selects it for the retail environment.</td></tr>
<tr><td>Demo Mode</td><td>Sets to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons.
• It is not possible to use Demo Mode in Home Use mode.
• In Store Demo, Demo Mode is automatically set to On.
• Once Demo Mode is set to Off in Store Demo, Demo Mode does not run and only the screen is reset.
• The screen is reset automatically after 5 minutes in Demo Mode.</td></tr>
</table>

MAKING CONNECTIONS

MAKING CONNECTIONS

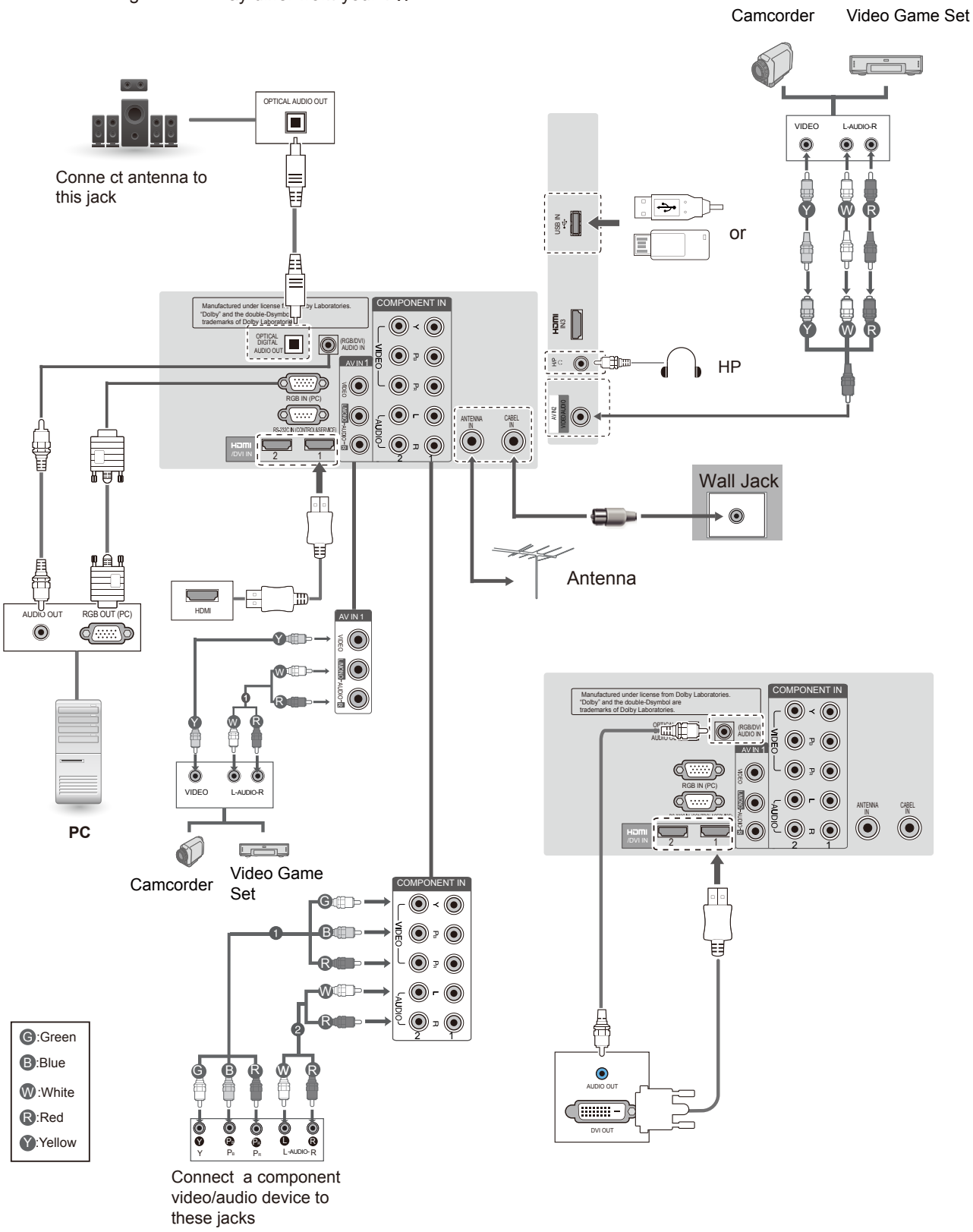
Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.
Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, camcorders or cameras, gaming devices, and other external devices.

NOTE

* If you record a TV programme on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
* The external device connection may differ from the model.
* Connect external devices to the TV regardless of the order of the TV port.
* 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 cablesare not High Speed HDMI Cable flickering or no screen display can result. , Please use the High Speed HDMI Cable.
* If cables are installed incorrectly, it could case the image to display in black and white or with distorted colour. Check to ensure the cable are matched with the corresponding colour connection.
* If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the TV.
* It is recommended to use the TV set with the HDMI connection for the best image quality.
* If you use an external audio device instead of the built-in speaker, set the TV speaker feature to off
* Do not look into the optical output port. Looking at the laser beam may damage your vision.
* 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.
* Headphone impedance: 16 Ω
* Max audio output of headphone: 10 mW to 15 mW
* Headphone jack size: 0.32 cm
* 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 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 ideo card if you use an HDMI to DVI cable
* If you use too long an RGB-PC cable, there may beinterference on the screen. We recommend using
* under 5m of cable. This provides the best picture quality.

External Equipment Setup

- To avoid damaging any equipment, you should never plug in any power cord until you have finished connecting all the equipments.
- Image shown may differ from your TV.



SIMPLINK connection

Use the TV remote control to play and control the AV device connected with the HDMI cable through HDMI-CEC. Your TV only works with the devices that support HDMI-CEC.

Connect one end of the HDMI cable to the HDMI/DVI IN or HDMI IN terminal on the rear of the TV and the other end to the SIMPLINK device.

In wireless external output, SIMPLINK function is not supported.

NOTE

- If the connected device does not support HDMI-CEC, the SIMPLINK feature is unavailable.
- To operate SIMPLINK, an High Speed HDMI Cable with *CEC function should be used. (*CEC: Consumer Electronics Control).

Activating the SIMPLINK feature

1 Press SIMPLINK to access the SIMPLINK menus.

2 Press the Navigation buttons to scroll to **On**.

3 Press the Navigation buttons to scroll to one of the devices and press **OK**.



No.	Description
1	Displays the previously viewed TV channel.
2	Plays discs. When multiple discs are available, the title of the disc appears at the bottom of the screen.
3	Controls the connected VCR.
4	HDD recordings playback: Controls the recording stored in HDD.
5	Audio out to home theater speaker or Audio out to TV: Changes the audio output between Home theater speaker and TV speaker.

- A check mark appears in front of the selected device.
- Available devices display in a bright colour.
- Unavailable devices display in grey.

4 Control the selected AV device.

- **Direct Play**: After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
- **Select AV device**: Enables you to select one of the AV devices connected to the TV.
- **Disc playback**: Control connected AV devices by pressing the Navigation buttons, **OK**, ▶, ■, II, ◀◀ and ▶▶ buttons.
- **Power off all devices**: When you power off the TV, all connected devices are turned off.
- **Switch audio-out**: Offers an easy way to switch audio-out.
- **Sync Power on**: When the equipment with SIMPLINK function connected HDMI terminal starts to play, The TV will automatically turn on.

NOTE

- If you change the input source by pressing INPUT, the progressing function of the SIMPLINK device will stop.
- If you select a device that has the home theater feature, the sound output automatically switches to the home theater speaker and the TV speaker turns off.
- If a connected SIMPLINK home theater system does not play the audio from the TV, connect the DIGITAL AUDIO OUT terminal on the rear of the TV to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with an optical cable.

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

1 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** ∧ ∨ button can be used to select the preceding or following page.

Top Text

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

Block / Group / Page Selection

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

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

3 With the green button you can proceed to the next existing page with automatic overflow to the next group..

4 Alternatively the **P** ∧ button can be used. The red button returns to the previous selection. Alternatively the **P** ∨ button can be used.

Direct Page Selection

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

ENGLISH

Fastext

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

Page selection

1 Press the **T.OPT** button and then use Navigation buttons to select menu. Display the index page.

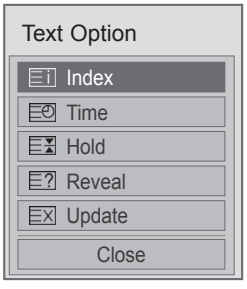
2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.

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.

4 The **P** ∧ ∨ button can be used to select the preceding or following page.

Special Teletext Function

Press the **T. OPT** button and then use Navigation buttons 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.

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.

NOTE

- In UK(In digital mode), **T. OPT** button does not work.

DIGITAL TELETEXT

• This feature is not available in all countries.

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



1 Press the numeric or **P** ∧ ∨ button to select a digital service which broadcasts digital teletext.

2 Follow the indications on digital teletext and move onto the next step by pressing **TEXT**, **OK, Navigation button**, **Red**, **Green**, **Yellow**, **Blue** or **NUMBER** buttons and etc.

3 To change digital teletext service, select a different service by the numeric or **P** ∧ ∨ button.

Teletext in digital service



1 Press the numeric or **P** ∧ ∨ button to select a certain service which broadcasts digital teletext.

2 Press the **TEXT** or coloured button to switch on teletext.

3 Follow the indications on digital teletext and move onto the next step by pressing **OK, Navigation button**, **Red**, **Green**, **Yellow**, **Blue** or **NUMBER** buttons and so on.

4 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.

ENGLISH

MAINTENANCE

Update and clean your TV regularly to keep the best performance and to extend the product lifespan.

Cleaning your TV

CAUTION

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

Screen and frame

To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.
To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.

CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may as these may damage the screen's finish and cause discolourations.

Cabinet and stand

To remove dust or light dirt, wipe the cabinet with a dry, clean, and soft cloth.
To remove major dirt, wipe the cabinet with a soft cloth dampened in a clean water or water containing a small amount of mild detergent. Then wipe immediately with a dry cloth.

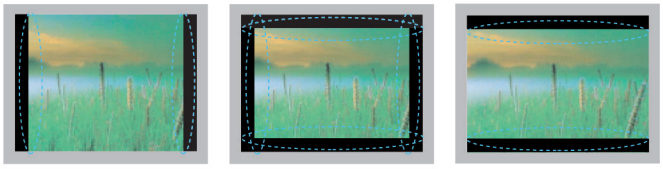
CAUTION

- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.
- Do not use any chemicals as this may deteriorate the surface.

Power cord

Remove the accumulated dust or dirt on the power cord regularly.

Preventing “Image burn” or “Burn-in” on your TV screen



- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is “image burn” or “burn-in” and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD, 1 or more hours for the Plasma TV) to prevent image burn.

TROUBLESHOOTING

General

Problem	Resolution
Cannot control the TV with the remote control.	• Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖). • Check if the appropriate input mode such as TV or VCR is set for using the remote control.
No image display and no sound is produced.	• Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
Image appears slowly when the TV turns on.	• The image is muted during the product startup process. This is normal. If the image does not appear in a few minutes, unplug the TV for 30 seconds and try again. If the image still does not appear, contact the authorized service center in your local area.
Cannot connect external devices.	• Refer to the“**Making Connections**” and External Equipment Setup.
The TV turns off suddenly.	• Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. Refer to the “**Sleep Timer**” . • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

ENGLISH

Audio

Problem	Resolution
No sound is produced while images are displaying.	• Press ◿ **+** or **-** button. • Check if the sound is muted by pressing **MUTE**. • Scroll to other channels. There may a problem with the broadcast. • Check if the audio cables are connected properly.
One of the speakers produce noises or does not produce sound.	• A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. • There is no problem with your product.

Video

Problem	Resolution
An image displays in black and white or the colour quality is poor.	• Adjust the colour setting in the **PICTURE** menu . • Keep a sufficient distance between this product and other electronic products. • Scroll to other channels. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	• Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	• Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	• Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.
The power is on but the screen appears extremely dark.	• Adjust the brightness and contrast in the **PICTURE** menu .
“No Signal” appears on the screen.	• Check if the signal cable is connected between the TV and products properly. • Check the selected input source by pressing **INPUT**.
Black spots appear on the screen.	• Several pixels in red, green, white, or black may appear on the screen that can attribute to the characteristics of the LCD panel. • This is normal.
The display offset is wrong.	• Adjust the position setting in the **PICTURE** menu . • Check if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution using the display settings on the external device.
Thin lines appear in the background of the screen.	• Check the video cable connections.
Horizontal noises appear or characters blur.	• Adjust the Phase setting in the **PICTURE** menu. Refer to the “**SCREEN**”.
The reception on some channels is poor	• Scroll to other channels. There may a problem with the broadcast. • The station signal may be weak. Aim the antenna to the proper direction. • Check if there is local interference such as an electrical appliance or power tool.

SPECFICATIONS

ITEM \ MODELS		42LW4500	47LW4500
Dimensions (W xD x H)	With stand	1005×256×686mm	1115×255×748mm
	Without stand	1005×29.9×621mm	1115×29.9×683mm
Weight	With stand	15.2Kg	21.4Kg
	Without stand	13.0Kg	18.5Kg
Power requirement		AC 100-240V~ 50/60Hz 1.2A	AC 100-240V~ 50/60Hz 1.4A

ITEM \ MODELS		55LW4500
Dimensions (W xD x H)	With stand	1293×341×851mm
	Without stand	1293×29.9×785mm
Weight	With stand	27Kg
	Without stand	22Kg
Power requirement		AC 100-240V~ 50/60Hz 1.6A
Environme-ntcondition	Operating Temperature Operating Humidity	0 °CTo40 °C Less than 80 %
	Operating Temperature Operating Humidity	-20 °CTo60 °C Less than 85 %

Product speifications shown above may be changed without prior notice due to upgrade of product functions.

RGB-PC, HDMI/DVI-PC supported 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 (RGB-PC)	66.587	59.93
1920x1080 (HDMI-PC)	67.5	60.00

HDMI/DVI-DTV supported mode

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

Component port connecting information

Component ports on the TV	Y	P_B	P_R

Video output ports on DVD player	Y	P_B	P_R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

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

Video supported mode

File / Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg	MPEG1, MPEG2	MP2,MP3,Dolby Digital,LPCM	1920x1080@30p (only , Motion JPEG 640x480@30p)
dat	MPEG1	MP2	
ts,trp,tp	MPEG2, H.264, AVS, VC1	MP2,MP3,Dolby Digital, 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-beta1/2H.264	AAC,HE-AAC,MP3	
mkv	H.264, MPEG-1,2,4	MP2,MP3,Dolby Digital,AAC HE-AAC,LPCM	
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-beta1/2H.264	MP2,MP3,Dolby Digital,LPCM, ADPCM,AAC,HE-AAC	
Motion JPEG (avi, mp4, mkv)	JPEG	LPCM, ADPCM	
asf, wmv	VC1	WMA	
flv	Sorenson H.263, H264	MP3, AAC	

APPENDIX

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GPL EXECUTABLES:

- Linux kernel 2.6
- busybox
- lzo

LGPL LIBRARIES:

- uClibc

MPL LIBRARIES:

- Nanox

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APPENDIX
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2.1, February 1999

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Version 1.1

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Serial No. : _____