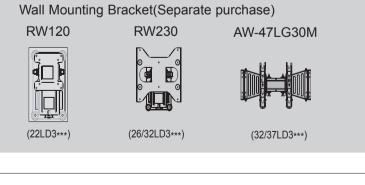


OWNER'S MANUAL

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





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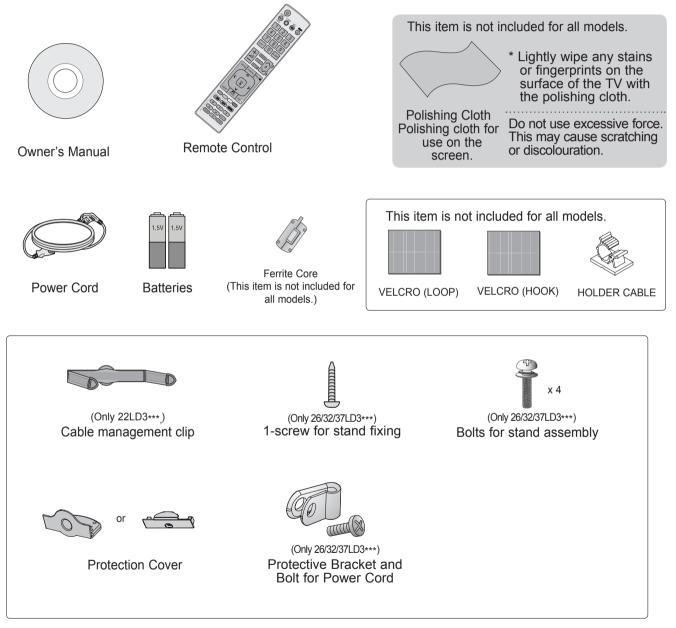
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LCD TV MODELS : 22/26/32/37LD3***

ACCESSORIES

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

Image shown may differ from your TV.



Use of ferrite core (This feature is not available for all models.)

Ferrite core can be used to reduce the electromagnetic wave when connecting the power cord.

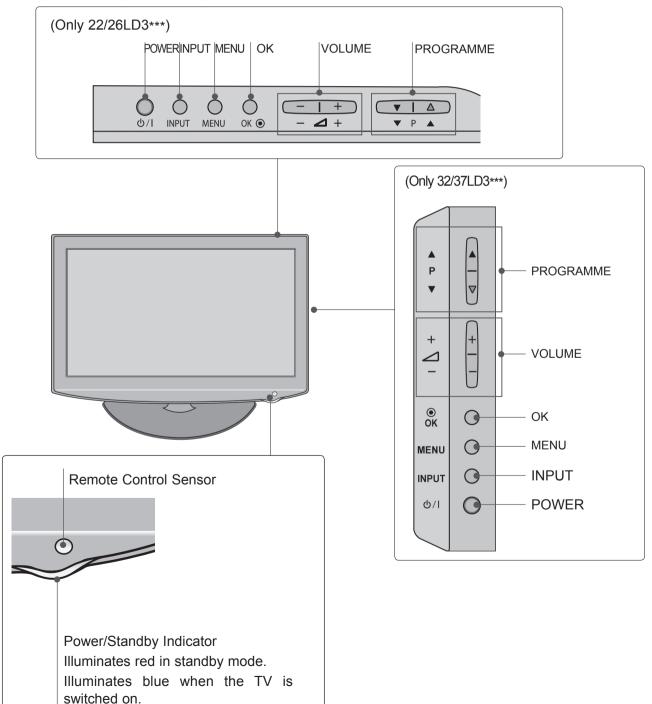
The closer the location of the ferrite core to the power plug, the better it is.



A-1

FRONT PANEL CONTROLS

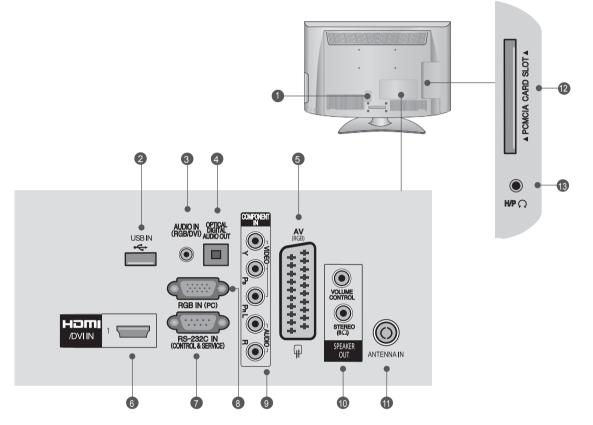
- TV can be placed in standby mode in order to reduce the power consumption. And TV should be switched off using the power switch on the TV if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness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



BACK PANEL INFORMATION

Image shown may differ from your TV.

22LD3***



Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (\blacktriangleright p.126) Never attempt to operate the TV on DC power.

2 USB Input

Connect USB storage device to this jack.

RGB/DVI Audio Input Connect the audio from a PC or DTV.

OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.

G Euro Scart Socket (AV)

Connect scart socket input or output from an external device to these jacks.

6 HDMI/DVI IN Input

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

RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.

RGB IN Input

Connect the output from a PC.

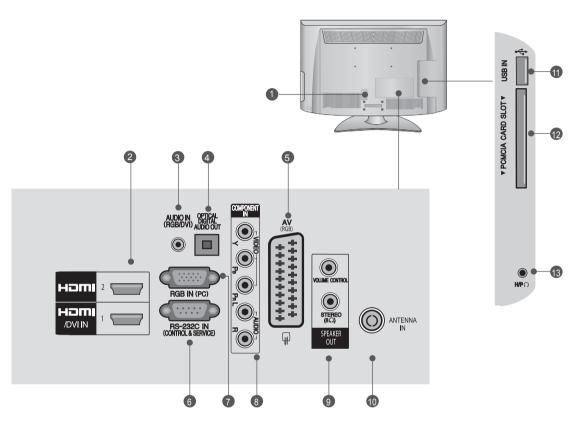
Component Input Connect a component video/audio device to these jacks.

- SPEAKER OUTPUT(STEREO) The phone socket for external speaker is on this jack.
- Antenna Input Connect antenna or cable to this jack.
- PCMCIA (Personal Computer Memory Card International Association) Card Slot Insert the CI Module to PCMCIA CARD SLOT.

(This feature is not available in all countries.)

Headphone Socket Plug the headphone into the headphone socket.

26/32/37LD3***



Power Cord Socket 1

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.126) Never attempt to operate the TV on DC power.

HDMI/DVI IN Input

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

- In the second Connect the audio from a PC or DTV.
- OPTICAL DIGITAL AUDIO OUT Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.
- Euro Scart Socket (AV) Connect scart socket input or output from an external device to these jacks.
- 6 RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.

7 **RGB IN Input**

Connect the output from a PC.

- Component Input Connect a component video/audio device to these jacks.
- SPEAKER OUTPUT(STEREO)

The phone socket for external speaker is on this jack.

Antenna Input

Connect antenna or cable to this jack.

- USB Input Connect USB storage device to this jack.
- 12 **PCMCIA** (Personal Computer Memory Card International Association) Card Slot Insert the CI Module to PCMCIA CARD SLOT (This feature is not available in all countries.)
- B Headphone Socket Plug the headphone into the headphone socket.

STAND INSTALLATION

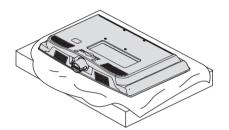
Image shown may differ from your TV

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

Only 22LD3***

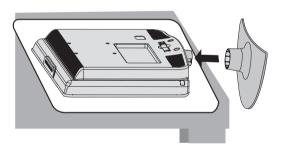


Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.





Assemble the TV as shown.



Only 26/32/37LD3***

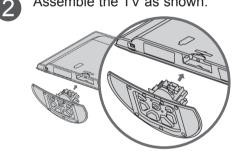


Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



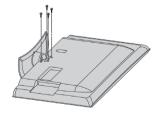


Assemble the TV as shown.





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



BACK COVER FOR WIRE ARRANGEMENT

Image shown may differ from your TV.

22LD3***

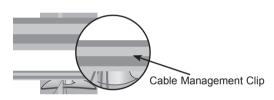


Connect the cables as necessary. To connect additional equipment, see the EXTERNAL EQUIPMENT SETUP section.



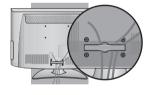


Install the Cable Management Clip as shown.





Fit the Cable Management Clip as shown.



HOW TO REMOVE THE **CABLE MANAGEMENT** CLIP (22LD3***)

Hold the Cable Management Clip with both hands and pull it backward.

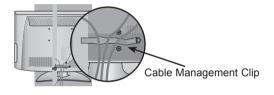


26/32/37LD3***

Connect the cables as necessary. To connect additional equipment, see the EXTERNAL **EQUIPMENT SETUP** section.

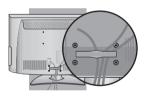


2 Open the Cable Management Clip as shown.





Fit the Cable Management Clip as shown.



NOTE

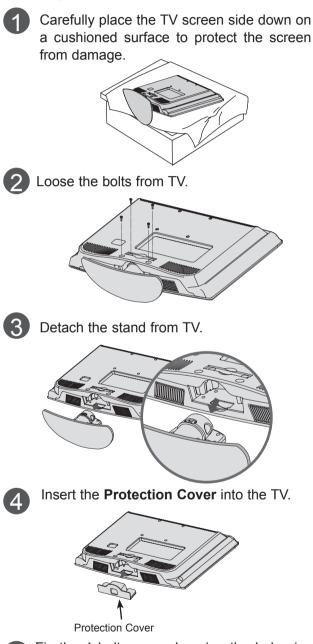
- ▶ Do not use the Cable Management Clip to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

NOT USING THE DESK-TYPE STAND

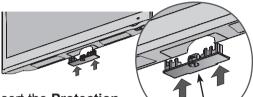
Image shown may differ from your TV.

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

22LD3***



26/32/37LD3***



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

Protection Cover





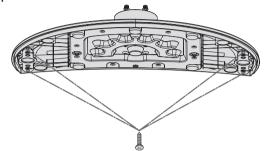
Fix the 4 bolts securely using the holes in the back of the TV.



(5)

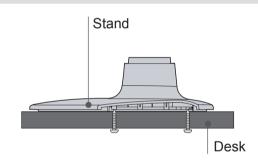
ATTACHING THE TV TO A DESK (Only 26/32/37LD3***)

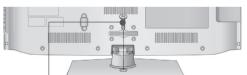
■ Image shown may differ from your TV. The TV must be attached to desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product.

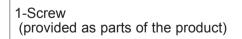


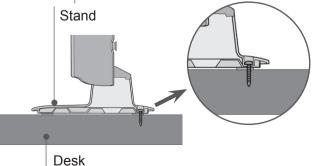
4-Screws (not provided as parts of the product)

 Screw: M5 x L (*L: Table depth + 8~10 mm) ex) Table depth: 15mm, Screw: M5 x 25







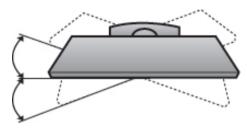


WARNING

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

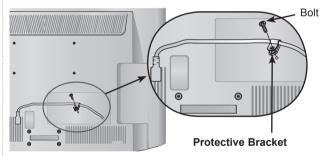
SWIVEL STAND

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



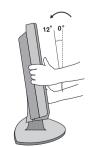
HOW TO SECURE THE POWER CABLE (Only 26/32/37LD3****)

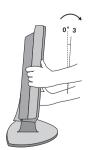
Secure the power cable with the **Protective Bracket** and the bolt as shown. It will help prevent the power cable from being removed by accident.



POSITIONING YOUR DISPLAY (Only 22LD3***)

- Image shown may differ from your TV.
- Adjust the position of the panel in various ways for maximum comfort.
- Tilt range





KENSINGTON SECURITY SYSTEM

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

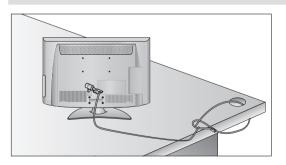
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

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

For further information, contact http://www.kensington.com, the internet homepage of the Kensington

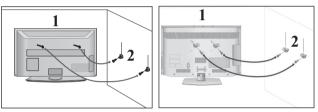
company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

- 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 monitor's performance.
- Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

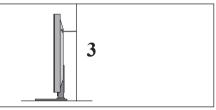


CAREFUL INSTALLATION ADVICE

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



- Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture. (If your TV has bolts in the eyebolts, loosen then bolts.)
 - * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
 - Secure the wall brackets with the bolts on the wall. Match the height of the bracket that is mounted on the wall.



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

NOTE

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

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

EARTHING

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

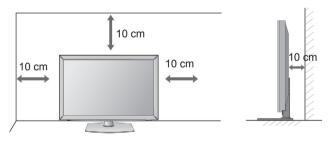
Do not try to earth the TV by connecting it to telephone wires, lightening rods or gas pipes.

Power Supply Circuit breaker

DESKTOP PEDESTAL INSTALLATION

Image shown may differ from your TV.

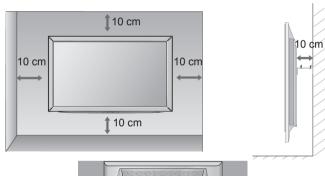
For adequate ventilation allow a clearance of 10 cm all around the TV.



WALL MOUNT: HORIZONTAL INSTALLATION

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

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

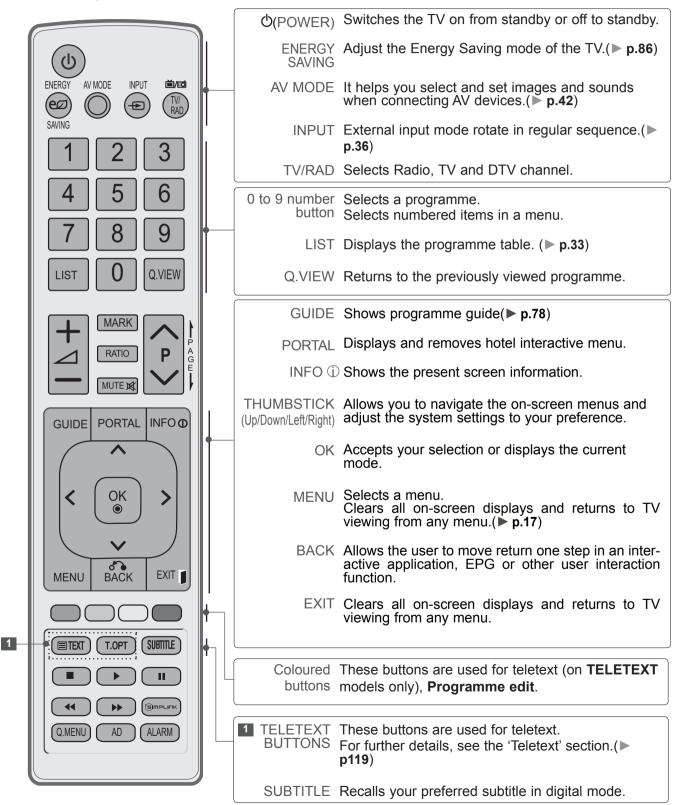




Model	VESA Standa (A * B) Screy	ard w Quantity
22LD3***	100 * 100 M4	4
26/32LD3***	200 * 100 M4	4
37LD3***	200 * 200 M6	4

REMOTE CONTROL KEY FUNCTIONS

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



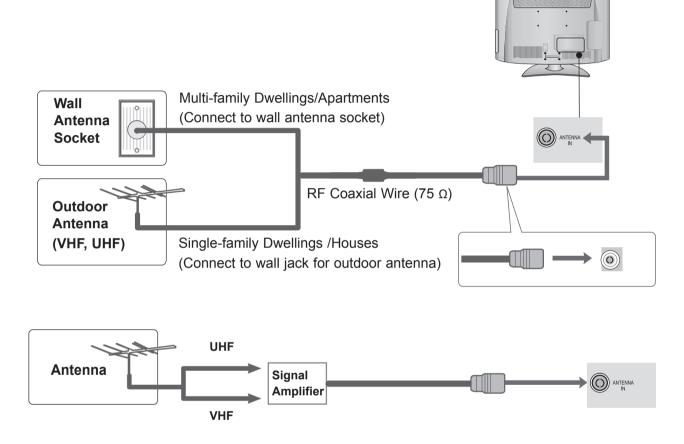
PREPARATION

	VOLUME UP /DOWN	Adjusts the volume.
	MARK	Check and un-check programmes in the USB menu.
SAVING (TV) RAD	RATIO	Selects your desired Aspect Ratio of picture.(▶ p.84)
1 2 3	MUTE	Switches the sound on or off.
4 5 6	Programme UP/DOWN	Selects a programme.
		Move from one full set of screen information to the next one.
	SIMPLINK / MY MEDIA Menu	Controls SIMPLINK or MY MEDIA menu(Photo List, Music List, Movie List and Extra contents).
	control buttons	
	SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the Simplink menu appears at the screen.(▶ p.38)
GUIDE PORTAL INFO	Q. MENU	Select the desired quick menu source. (Aspect Ratio, Clear Voice II, Picture Mode, Sound Mode, Audio (or Audio Language), Sleep Timer, Skip Off/On, USB Device).(▶ p.16)
	AD	Switches the Audio Description On or Off.(> p.105)
	ALARM	Sets the alarm function.(► p.113)
MENU BACK EXIT	Installing	g Batteries
Q.MENU AD ALARM	the batteri	
	 To remove reverse. 	e the batteries, perform the installation actions in

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

ANTENNA CONNECTION

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



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

- To avoid damaging any equipment, never plug in any power cord until you have finished connecting all equipment.
- This section on **EXTERNAL EQUIPMENT SETUP** mainly uses diagrams for the 32LD3*** models.
- Image shown may differ from your TV.

CONNECTING WITH A COMPONENT CABLE

This TV can receive Digital RF/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the diagram as shown below.



(1)

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

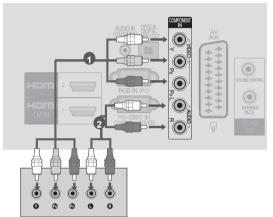
Connect the audio output of the external equip-

2

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

ment (digital set-top box, DVD, etc.) to the **COMPONENT IN AUDIO** jacks on the TV.

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



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

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

Component Input ports

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

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

CONNECTING WITH AN HDMI CABLE



Connect the HDMI output of the external equipment (digital settop box, DVD, etc.) to **HDMI/DVI IN 1**, **HDMI 2** (Except for 22LD3***) jack on the TV.



Turn on the external equipment.

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

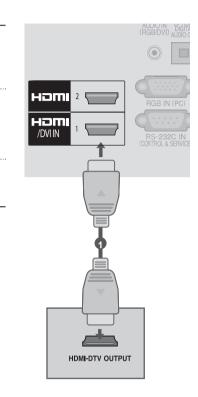


1

Select **HDMI1**, **HDMI2** (Except for 22LD3***) input source using the **INPUT** button on the remote control.

NOTE

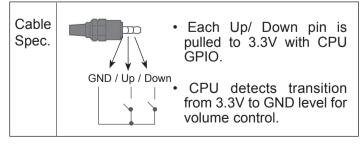
- The TV can receive video and audio signals simultaneously when using an HDMI cable.
- If the DVD does not support Auto HDMI, you must set the output resolution appropriately.
- Check that your HDMI cable is High Speed HDMI Cable. If the HDMI cables are not High Speed HDMI Cable, flickering or no screen display can result. Please use the High Speed HDMI Cable.

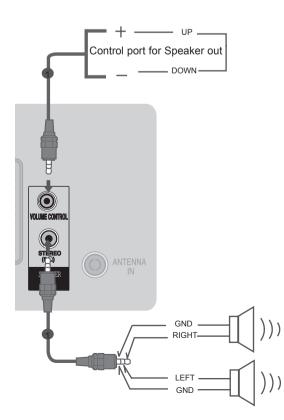


SPEAKER OUTPUT SETUP

Connect the external speaker to the **SPEAKER OUTPUT(STEREO)** jack on the TV.

Method of Volume control port





CONNECTING WITH AN HDMI TO DVI CABLE

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



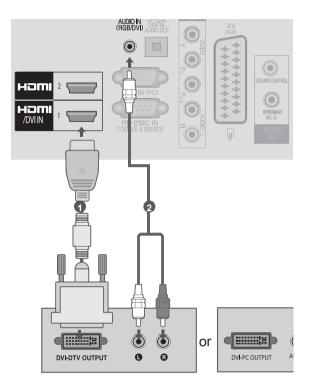
Connect the audio output of the digital set-top box or the PC audio output to the **AUDIO IN** (**RGB/DVI**) jack on the TV.

3 Turn on the digital set-top box or the PC and the TV.

(Refer to the digital set-top box or the PC manual for operating instructions.)



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



CONNECTING WITH A EURO SCART CABLE

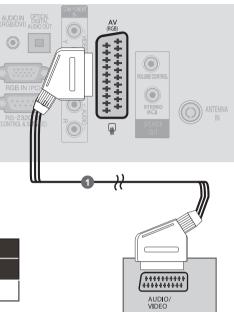
Connect the Euro scart socket of the external equipment (DVD, VCR, etc.) to the **AV** Euro scart socket on the TV.



(3)

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

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



	Input			Output
Scart	Video	Audio	RGB	Video, Audio
AV	0	0	0	Analogue TV, Digital TV

Output Type Current input model	AV (TV Out)
Digital TV	Digital TV
Analogue TV, AV	Analogue TV
Component/RGB	Analogue TV
HDMI	Analogue TV

 TV Out : Outputs Analogue TV or Digital TV signals.

► Any Euro scart cable used must be signal shielded.

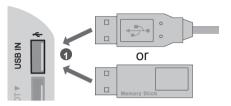
USB SETUP



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

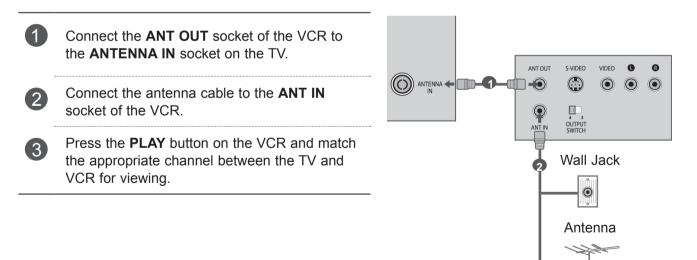


After connecting the **USB IN** jack, you use the **USB** function. (**▶ p44**)



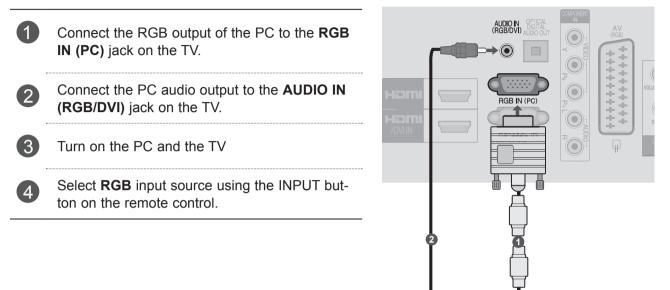
CONNECTING WITH A RF CABLE

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



CONNECTING WITH A D-SUB 15 PIN CABLE

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



(AUDIO

RGB OUTPU

INSERTION OF CI MODULE

To view the encrypted (pay) services in digital TV mode. This feature is not available in all countries.

1

Insert the CI Module to **PCMCIA** (Personal Computer Memory Card International Association) **CARD SLOT** of TV as shown.

For further information, see p.32.

Check this point as shown and insert the CI Module.

NOTE

Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.

EXTERNAL EQUIPMENT SETUP

DIGITAL AUDIO OUT SETUP

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

- Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.

ACAUTION

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

HEADPHONE SETUP

You can listen the sound through the headphone.

.....

1

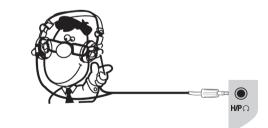
2

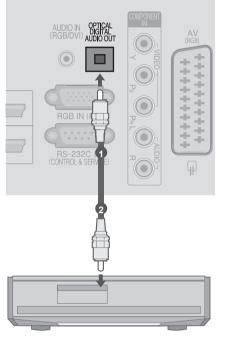
Plug the headphone into the headphone socket.

To adjust the headphone volume, press the \triangle + or - button. If you press the MUTE button, the sound from the headphone is switched off.

NOTE

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







SUPPORTED DISPLAY RESOLUTION

RGB-PC, HDMI/DVI-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.78	59.87
1360x768	47.72	59.8
1280x720 (RGB-PC)	45	60
1920x1080 (RGB-PC)	66.587	59.93
1920x1080 (HDMI-PC)	67.5	60.00
		•

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	
700-400	31.469	59.94	
720x480	31.5	60	
720x576	31.25	50	
1280x720	37.5	50	
	44.96/45	59.94/60	
	33.72/33.75	59.94/60	
	28.125	50	
1920x1080	26.97/27	23.97/24	
	33.716/33.75	29.976/30.00	
	56.25	50	
	67.43/67.5	59.94/60	

(Except for 22/26/32LD3***)

- Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- We recommend using 1360x768, 60 Hz (only 22/26/32LD3***), 1920x1080,60 Hz (only 37LD3***) for the PC mode, this should provide the best picture quality.
- Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN (or HDMI/DVI IN) port on the TV.

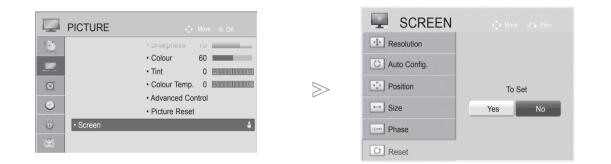
- Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- ▶ If using a sound card, adjust PC sound as required.
- If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN (or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

SCREEN SETUP FOR PC MODE

Screen Reset

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

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





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

Auto Configure (RGB [PC] mode only)

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

Auto configure

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

PICTURE OK	SCREEN 🔶 Move 🗸 Prev.
Sharpness 70 Colour 60 Tint 0 Rimming	Resolution Auto Config. Position Size Yes Phase Reset
1	
	 If the position of the image is still not correct, try Auto adjustment again.
Select Screen.	 If picture needs to be adjusted again after Auto adjustment in RGB (PC), you can adjust the Position, Size or Phase.
Select Auto Config	
Select Yes.	
Run Auto Config	

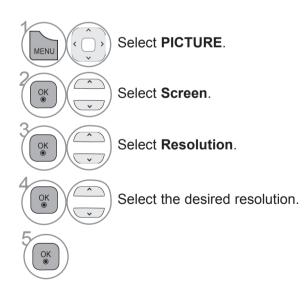
• Press the **BACK** button to move to the previous menu screen.

Selecting Resolution

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

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

PICTURE	<∱> Move ⊙ OK	SCREEN	🗘 Move 🔗 Prev.
0	Snarpness /0 Colour 60 Tint 0 Roman G Colour Temp. 0 Advanced Control Picture Reset	Resolution Auto Config. Position Size Phase Reset	✓ 1024 x 768 ☐ 1280 x 768 ☐ 1360 x 768



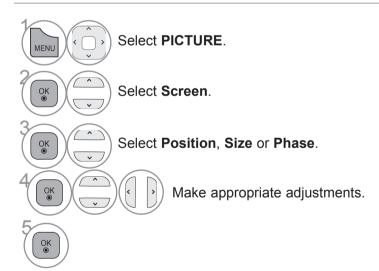
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

Adjustment for screen Position, Size, Phase

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

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

	↔ Move ⊙ OK		SCREEN	
	Sharpness 70		+++ Resolution	
	Colour 60		Auto Config.	
0	• Tint 0 Rumming • Colour Temp. 0 With 1100 C	\gg	Position	
٢	Advanced Control Picture Reset		⊷ Size	
• Screen	Ficture Reset		Image Phase	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Ē			C Reset	



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

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

1

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



1

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

INITIALIZING SETUP

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the Language, Power Indicator, Country or TimeZone (When Russia is selected for Country) or Set Password(When France is selected for Country), Auto Tuning.

Note:

a.If you close without completing the initial setting, the Initial Setting menu can be displayed again.

b.Press the BACK button to change the current OSD to the previous OSD.

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

d. When France is selected for Country, password is not '0', '0', '0', '0' but '1', '2', '3', '4'.

PROGRAMME SELECTION

Press the $\mathbf{P} \wedge \mathbf{v}$ or NUMBER buttons to select a programme number.

VOLUME ADJUSTMENT

Press the aimes + or - button to adjust the volume.

2

1

1

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

You can cancel this function by pressing the MUTE, \angle + -, I/II, or AV Mode button.

WATCHING TV / PROGRAMME CONTROL

QUICK MENU

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

→ Aspect Ratio: Selects your desired picture format.

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

- Clear Voice II : By differentiating the human sound range from others, it helps users listen to human voices better.
- Picture Mode : Selects your desired Picture Mode.
- Sound Mode : It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.

- (1) Audio or Audio Language : Selects the sound output.
- ${\mathfrak G}^{{\mathsf z}}$ Sleep Timer : Sets the sleep timer.
- **PR** Skip Off/On : Selects the Skip Off/On.
- USB Device : Selects "Eject" in order to eject USB device.



Display each menu.

Select your desired Source.

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

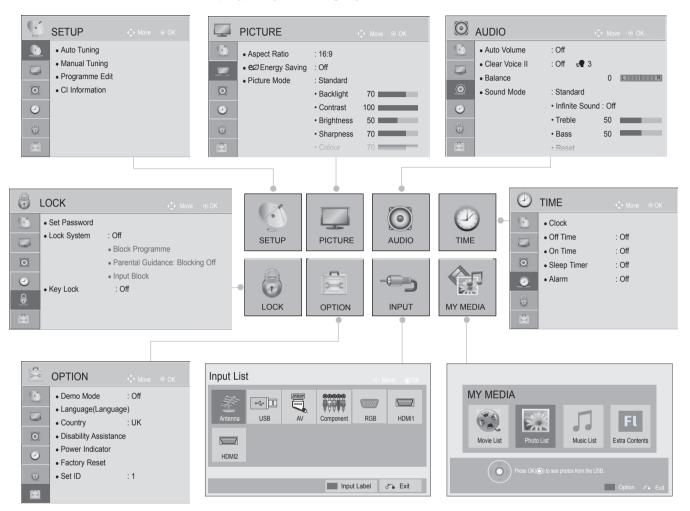
Q.MENU

<u>o</u>K

OK

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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





NOTE

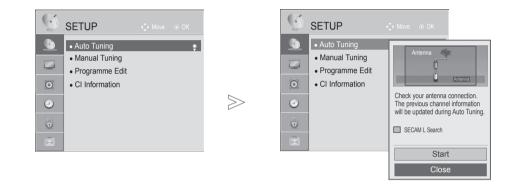
▶ It is not possible to use CI Information in Analogue mode.

WATCHING TV / PROGRAMME CONTROL

AUTO PROGRAMME TUNING

Use this to automatically find and store all available programmes.

When you start auto programming, all previously stored service information will be deleted. The maximum number of programmes that can be stored is 500. But the number may differ slightly depending on broadcasting signals.





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

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

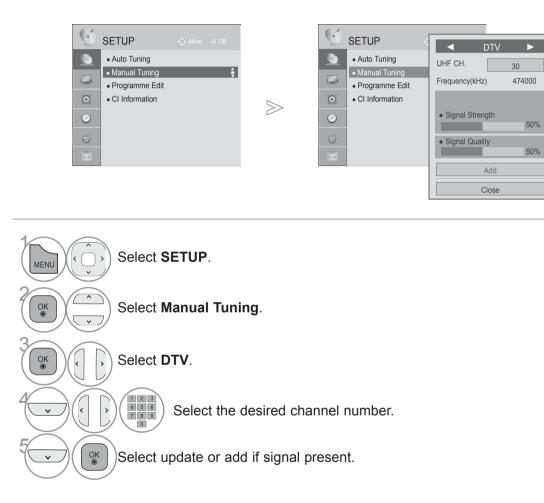
- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- If you wish to keep on auto tuning select **Start** using the $\land \lor$ button. Then, press the **OK** button. Otherwise select **Close**.
- When select Italy in the County menu, If the pop up is displayed when the conflicted programme after Auto Tuning, select a broadcaster for Conflicting programme number to solve.

WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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

If you want to select the DTV,

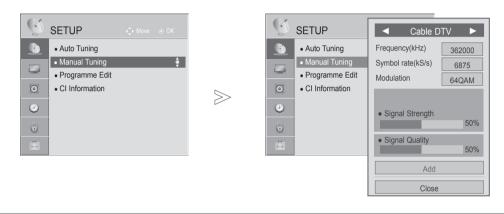


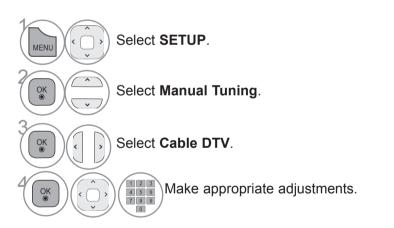
• Press the **MENU/EXIT** button to return to normal TV viewing.

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

- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- You can select **SBAND** when the country is set to "Norway, Latvia."

If you want to select the Cable DTV,





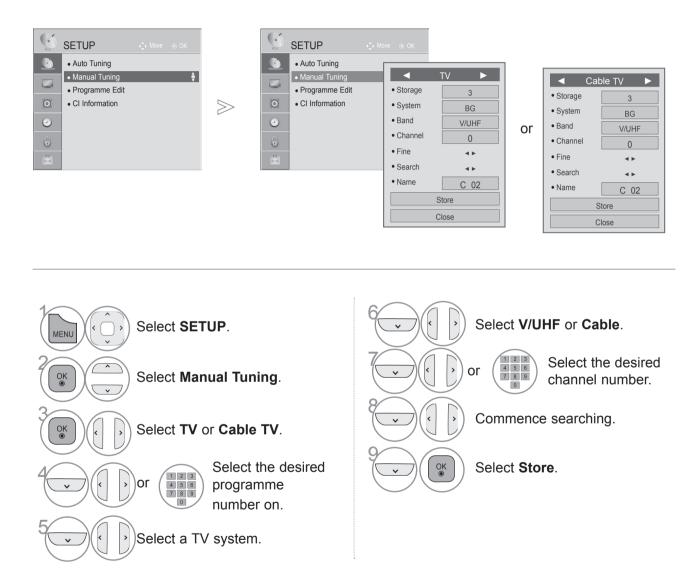
- Press the MENU/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

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

MANUAL PROGRAMME TUNING

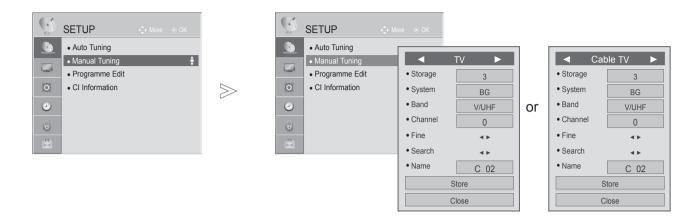
(IN ANALOGUE MODE)

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



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

- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- 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)
- To store another channel, repeat steps 4 to 9.



Assigning a station name

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

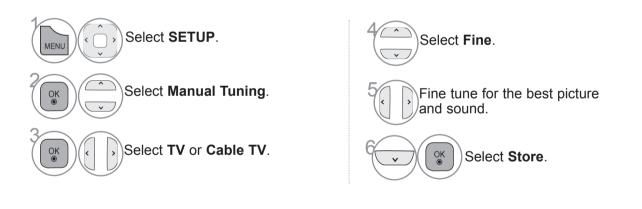


- Press the MENU/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.



Fine Tuning

Normally fine tuning is only necessary if reception is poor.



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

PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using P \wedge \vee 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.

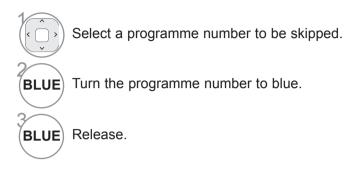
WATCHING TV / PROGRAMME CONTROL

SETUP O Move O CK		Programme Edit		TV			Page 1/2		
		1 YLE TV1	(D)	2 YLE TV2	(D)	3 YLE FST	(D)	-	
• Auto Tuning		4 YLE24	(D)	5 YLE Teema	(D)	6 YLE PEILI	(R)	D:	Digital TV
Manual Tuning	\geqslant	7 YLEQ	(R)	8 YLEN KLASSINEN	N (R)	9 YLE FSR+	(R)	R:	Digital Radio
Programme Edit		10 YLEMONDO	(R)	11 YLE X3M	(R)	12 TV4 Stockholm	(D)	A:	Analogue TV
CI Information		13 Kanal Lokal	(D)	14 CNN	(D)	15 TV4	(D)		•
2		15 TV4 Plus	(D)	17 TV400	(D)	18 TV4 Film	(D)		
		19 TV4 Fakta	(D)	20 MediaCorp HD5	(D)	21 Dolby D 5.1 Dem	o (R)		
				▼					
Ē		Pr. Change				Previous			
		Delete		Move Blo	ock/Unblo	ck Skip			



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

Skipping a programme number



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

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

Locking a programme number



Select a programme number to be locked.

YELLOW

Turn the programme number to yellow.



Release.

Deleting a programme



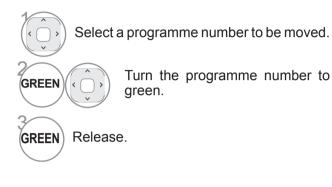
Select a programme number to be deleted.

Turn the programme number to red.

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

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

Moving a programme



CI [COMMON INTERFACE] INFORMATION

This function enables you to watch some encrypted services (pay services). If you remove the CI Module, you cannot watch pay services.

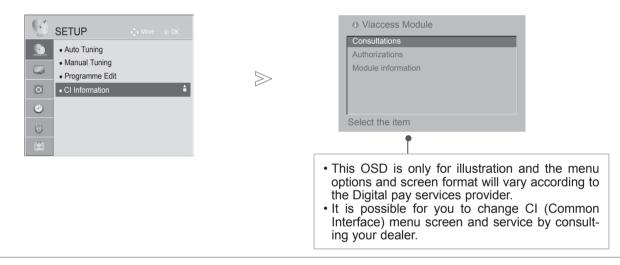
When the module is inserted into the CI slot, you can access the module menu.

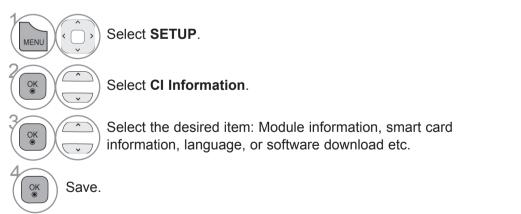
To purchase a module and smart card, contact your dealer. Do not repeatedly insert or remove a CI module from the TV. This may cause a malfunction. When the TV is turned on after inserting a CI Module, you may not have any sound output.

This may be incompatible with the CI module and smart card.

CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.

When using a CAM(Conditional Access Module), please make sure it meets fully the requirements of either DVB-CI or CI plus.

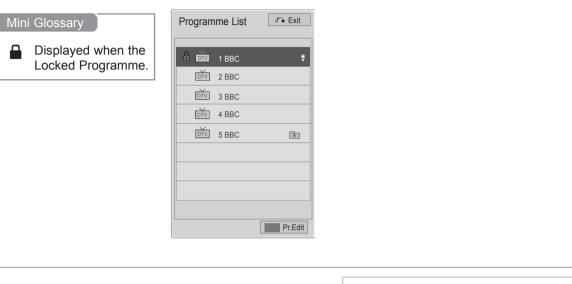




• Press the BACK/EXIT button to move to the previous menu screen.

SELECTING THE PROGRAMME LIST

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

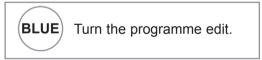


Displaying programme LIST



Display the **Programme List**.

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



Selecting a programme in the programme list



Select a programme.

TVI

ĭ∎/100

The mode will be switched between TV, DTV, and Radio from the program you are currently watching.

) Switch to the chosen programme number.

Paging through a programme list



) Turn the pages.



Return to normal TV viewing.

INPUT LIST

HDMI and AV(SCART) can be recognized by a detect pin and thus enabled only when an external device approves voltage.

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

Input List

Image shown may differ from your TV.

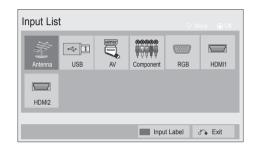


- Antenna or Cable : Select it when watching the DTV/RADIO/TV.
- **USB** : Select it when using USB depends on connector.
- **AV** : Select it when watching the VCR or external equipment.
- **Component** : Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** :Select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

INPUT LABEL

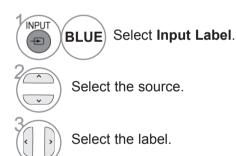
Selects a label for each input source.

Image shown may differ from your TV.



Input Lat	pel		
Ę	AV	۰ ۲	
	Component	• •	
	RGB	• •	
	HDMI1	< >	
	HDMI2	< >	
		▼	
	Close		

 \gg



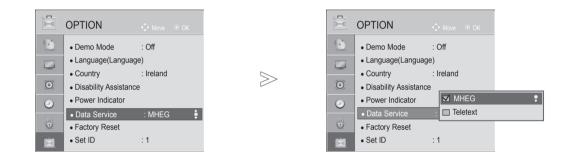
- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

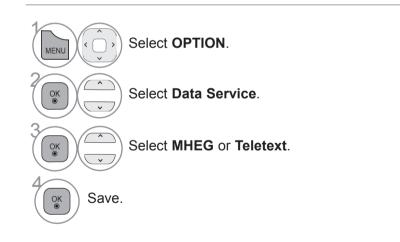
DATA SERVICE

(This menu is enabled only in Ireland.)

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

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





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

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

SIMPLINK

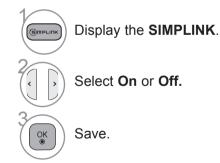
This function operates only with devices with the SIMPLINK logo. Please check the SIMPLINK logo.

This TV might not function properly when using it with other products with HDMI-CEC function. This allows you to control and play other AV devices connected to the display through HDMI cable without additional cables and settings.

If you do not want SIMPLINK menu, select "Off".

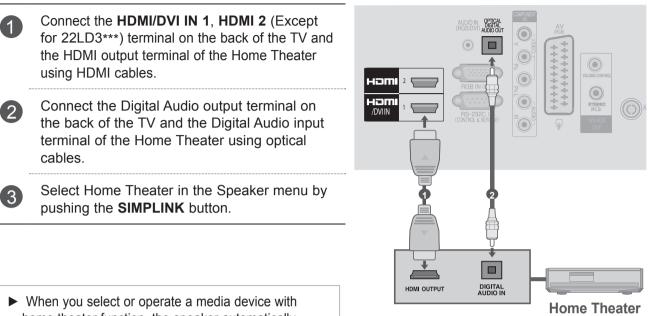
In wireless external output, SIMPLINK function is not supported.

(SIMP	LINK
	⊙ OK ठ~ь Exit
◀	On 🕨
Wat	tch TV
o DIS	C
Se VCI	R
📼 HDI	D Recorder
0	Speaker TV Speaker



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

Connecting to Home Theater with the SIMPLINK logo.



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

WATCHING TV / PROGRAMME CONTROL

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

SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the $\land \lor \lt >$, OK, \blacktriangleright , \blacksquare , II, $\blacktriangleleft \blacklozenge$ and $\blacktriangleright \triangleright$ buttons.

Direct Play

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

Select AV device

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

Power off all devices

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

Switch audio-out

Offers an easy way to switch audio-out.

Sync Power on

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

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

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

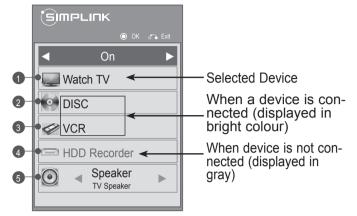
SIMPLINK Menu

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

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

When multiple discs are available, the device type of discs are conveniently displayed at the bottom of the screen.

- OVCR playback : Play and control the connected VCR.
- HDD Recordings playback : Play and control recordings stored in HDD.
- G Audio Out to Home theater/Audio Out to TV: Select Home theater or TV speaker for Audio Out.

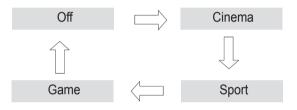


- Home theater: Only one supported at a time
- DVD, Recorder: Up to one(Only 22LD3***), two(Only 26/32/37LD3***) supported at a time.
- · VCR: Only one supported at a time

AV MODE

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

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



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

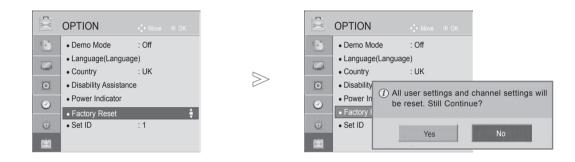
- If you select **Cinema** in AV mode, **Cinema** will be selected both for **Picture Mode** and **Sound Mode** in **PICTURE** menu and **AUDIO** menu respectively.
- If you select "**Off**" in AV mode, the picture and image which you initially set will be selected.

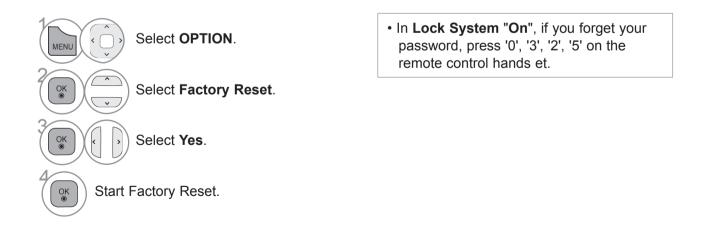
INITIALIZING(RESET TO ORIGINAL FACTORY SETTINGS)

This function initializes all settings.

It is useful to initialize the product or when you move to other city or country. When the Factory Reset is completed, you must restart the Initializing setup.

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



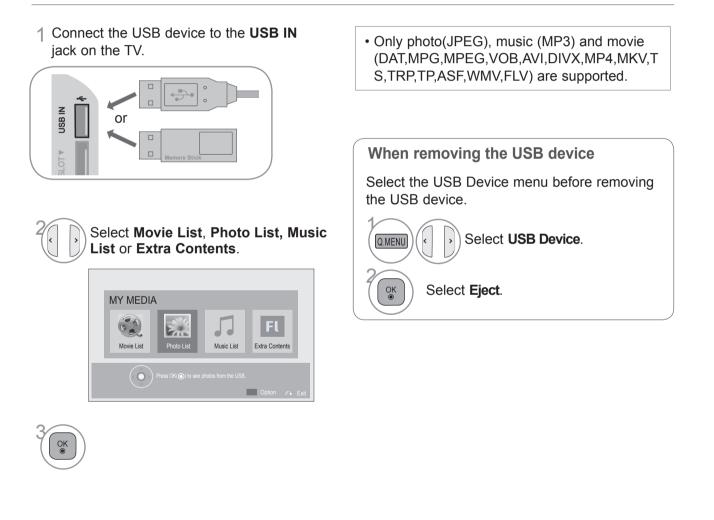


- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

WHEN CONNECTING A USB DEVICE

When you connect a USB device, this pop up menu is displayed, automatically. "POP UP MENU" will not be displayed while the OSD including Menu or EPG is activated. When the Pop Up menu appears, you can select Music List, Photo List, Movie List or Extra Contents in the MY MEDIA menu.

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



Precautions when using the USB device

- ► Only a USB storage device is recognizable.
- ▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
- ► A USB storage device using an automatic recognition programme may not be recognized.
- ► A USB storage device which uses its own driver may not be recognized.
- ▶ The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files or movie files.
- Please use only a USB storage device which was formatted as a FAT32 file system, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- ▶ Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- ► File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source. Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- ▶ If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- ▶ If the USB memory device does not work properly, disconnect and reconnect it.
- ▶ How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- ► Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- ▶ Maximum of 999 folders or files can be recognized under one folder.

MOVIE LIST

You can play movie files on a USB storage device.

The movie list is activated once USB is detected. It is used when playing movie files on TV. Displays the movies in the USB folder and supports Play.

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

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

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

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

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

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

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

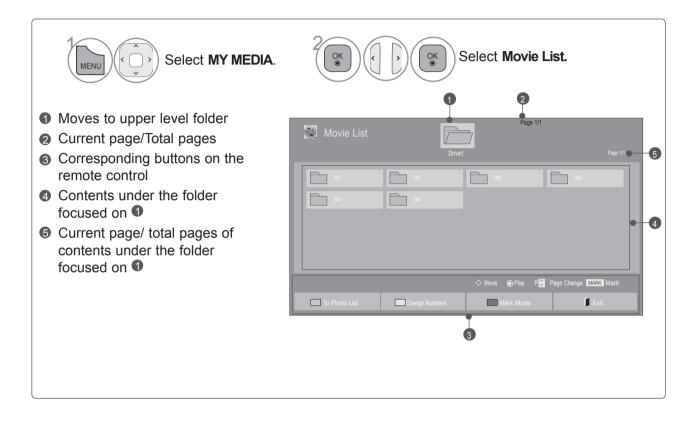
External Subtitle format : *.smi/*.srt/*.sub(MicroDVD,Subviewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.psb(PowerDivX)

- Internal Subtitle format : only, XSUB (It is the subtitle format used in DivX6 files)
- · 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.

File Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg	MPEG1, MPEG2	MP2,MP3,Dolby Digital,LPCM	
dat	MPEG1	MP2	
te tro to	MPEG2, H.264, AVS, VC1	MP2,MP3,Dolby Digital,	
ts,trp,tp	WIFEG2, H.204, AV3, VC1	AAC,HE-AAC	
vob	MPEG1, 2	MP2,MP3,Dolby Digital,LPCM	
mp4, mov	MPEG4,DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	AAC,HE-AAC,MP3	
		MP2,MP3,Dolby Digital,AAC	1920x1080@30p
mkv	H.264, MPEG-1,2,4	HE-AAC,LPCM	(only , Motion JPEG
divx, avi	MPEG2, MPEG4,DivX 3.11, DivX 4. DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	MP2,MP3,Dolby Digital,LPCM, ADPCM,AAC,HE-AAC	640x480@30p)
Motion JPEG (avi, mp4, mkv)	JPEG	LPCM, ADPCM	
asf, wmv	VC1	WMA	
flv	Sorenson H.263, H264	MP3, AAC	

Screen Components

You can also adjust USB in the INPUT menu.



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



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

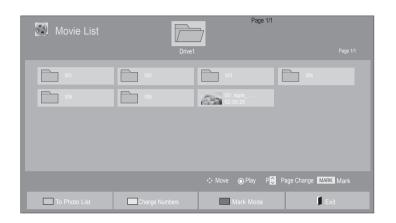


• Abnormal files are displayed in the form of bitmap.



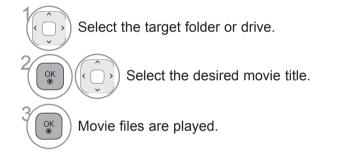
Movie Selection

When playing movie files



• Use the $\mathbf{P}^{\wedge} \vee$ button to navigation in the

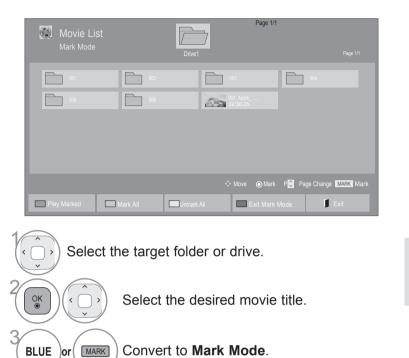
movie page.



Using the remote control

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

When selected movie files are played



Mark desired Movie file.

Marked movie file is played.

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

NOTE

OK ◉

RED

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

Using the remote control

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

NOTE

- ► If you select "Yes" from OSD when playing the same file after the movie file has been stopped, it will restart where it stopped previously.
- If continuous series files exist within the folder, the next file will automatically be played. But, this excludes cases when the **Repeat** function of Movie List Option is turned "**On**" (Refer to p. 54) or when set as Marked Play.

Using the Movie List function, play



 Image: Organization of the image: Show the Option menu.

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

NOTE

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

Using the remote control

	Stop the playing movie file.
	Press the PLAY() button to return to normal playback.
11	 During playback, press the Pause(II) button. Still screen is displayed. If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state. Press the Pause(II) button and then use the FF(►►) button for slow motion.
◀◀/▶▶	When playing, repeatedly, press the REW(◀◀) button to speed up ◀◀(x2) -> ◀◀◀(x4) -> ◀◀◀◀(x8) ->◀◀◀◀(x16) -> ◀◀◀◀(x32) . repeatedly, press the FF(►►) button to speed up ►►(x2)-> ►►►(x4) -> ►►►►(x8) ->►►►►(x16) -> ►►►►►(x32). ■ Pressing these buttons repeatedly increases the fast forward/reverse speed.
Or Q.MENU	Show the Option menu.
BACK	Hide the menu on the full-sized screen. ■ To see the menu again on the full-sized screen, press OK button to display.
EXIT	Return to normal TV viewing.
<>	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be viewed on the screen.
ENERGY ECCO SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.(Refer to p. 86)
AV MODE	Press the AV MODE button repeatedly to select the desired source.(Refer to p. 42)

When you select the Set Video Play,

Set Video Play.			
Picture Size		Full	►
Audio Language		1	
Subtitle Language	•	On	►
Language	•	English	
Code page	•	Default	
• Sync	•	0	
 Position 	•	0	►
• Size	•	Normal	
Repeat	•	On	
	ं	Previous	



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

Make appropriate adjustments.

Subtitle Language	Support Language
Latin1	English, Spanish, French, German, Italian, Swedish, Finnish, Dutch, Portuguese, Danish, Romanian, Norwegian, Albanian, Gaelic, Welsh, Irish, Catalan,Valencian
Latin2	Bosnian, Polish, Croatian, Czech, Slovak, Slovenian, Serbian, Hungarian
Latin4	Estonian, Latvian, Lithuanian
Cyrillic	Bulgarian, Macedonian, Russian, Ukrainian, Kazakh
Greek	Greek
Turkish	Turkish

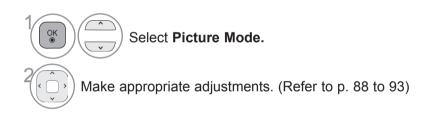
- Picture Size : Selects your desired picture format during movie play.
- Audio Language : Changes the Language Group of the audio during movie play. Files with a single audio track cannot be selected.
- ► Subtitle Langugae : Turn on/off the subtitle.
- **Subtitle :** Turn on/off the external subtitle.
- ► 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,

Set Video.			
Picture Mode		 Standard 	
 Backlight 	70	•	Þ
Contrast	100	•	
 Brightness 	50	<	►
Colour	60	<	►
Dynamic Contrast		 Medium 	►
Edge Enhancer		 Low 	►
Noise Reduction		◄ Off	
Picture Reset		* Previous	\$



When you select the Set Audio,

Set Audio.	
Sound Mode	 ✓ Standard
Auto Volume	 ■ Off ▶
Clear Voice II	 ■ Off ▶
Balance	0 < LR >
	revious



) Make appropriate adjustments. (Refer to p. 96 to 101)

PHOTO LIST

You can view photo files on USB storage device.

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

PHOTO(*.JPEG) supporting file

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

- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.

Screen Components

You can also adjust USB in the INPUT menu.

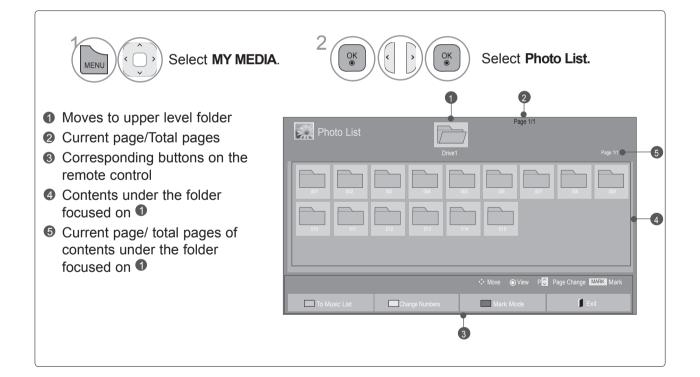
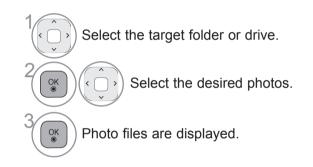


Photo Selection

When playing photo files



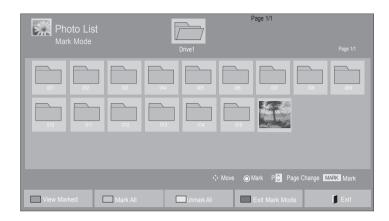


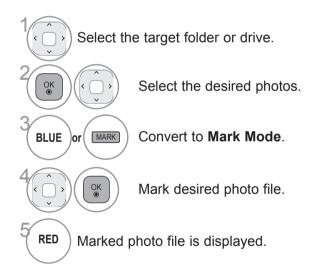
 Use the P ^ v button to navigation in the photo page.

Using the remote control

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

When selected photo files are displayed





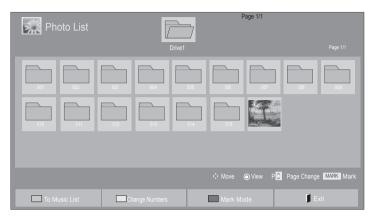
• When one or more photos are marked, you can view each marked photo or a slide show of the marked photos. If no photos are marked, you can view every individual photo in the folder or a slide show of all photos in the folder.

Using the remote control

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

How to view photo

Detailed operations are available on full-sized photo view screen.



 \mathbb{V}



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

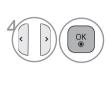
- Select the target folder or drive. OK Select the desired photos. The selected photo is displayed in full OK ◉ size.
- Use the $\mathbf{P} \land \lor$ button to navigation in the photo page.

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



- Slideshow : When no picture is selected, all photos in the current folder are displayed during slide show. If some photos are selected, those photos are displayed in a slide show.
 - Set the time interval of the slide show in **Option**.
- BGM (Background Music) : Listen to music while viewing photos in full size.
- Set the BGM device and album in Options before using this function.
- You can adjust Option by Q.MENU or MENU button on the remote control.
- ► U (Rotate) : Rotate photos.
 - Rotates the photo 90°, 180°, 270°, 360° clockwise.
- It can not be rotate when the width of a picture is bigger than supported height.
- ► Q (ZOOM IN): View the photo by zoom in 2, 4 times.
- ► eØ : Press the ENERGY SAVING button repeatedly to change the brightness of your screen.(Refer to p. 86)
- ▶ Option : Set values for Slide Speed and BGM.
- Use ^ < > button and **OK** button to set values. Press **OK** to save the settings.
- You cannot change **BGM** while BGM is playing.
- ► Hide : Hide the menu on the full-sized screen.
- To see the menu again on the full-sized screen, press OK button to display.

Press the EXIT button to go back to Photo List.



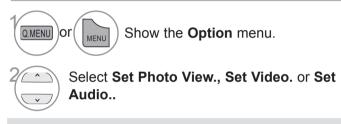
Select the **Slideshow**,

BGM, ひ (Rotate), ℚ (ZOOM IN), ☞, Option, Hide or Exit.

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

Using the Photo List function





- ► 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.

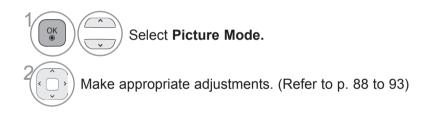
When you select the Set Photo View,

Set Photo View. Slide Speed Fast BGM Repeat On Random Off Off Previous



■ When you select the Set Video,

Set Video.		
Picture Mode		 Standard
 Backlight 	70	
 Contrast 	100	•
 Brightness 	50	× >
Colour	60	-
Dynamic Cont	rast	< Medium >
Edge Enhance	er	< Low ►
Noise Reduction	on	< Off ►
Picture Re	set	* Previous



When you select the Set Audio,

Set Audio.	
Sound Mode	 ✓ Standard
Auto Volume	 Off ►
Clear Voice II	 Off ►
Balance	0 < LR >
	Previous

^

OK

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

Make appropriate adjustments. (Refer to p. 96 to 101)

MUSIC LIST

You can play music files on USB storage device.

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

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

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

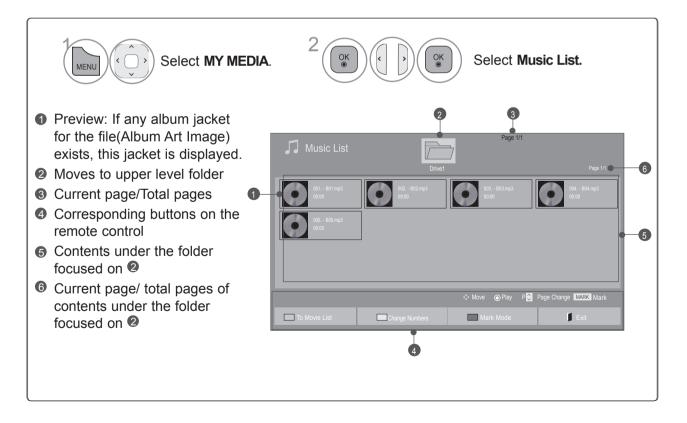
MUSIC (*.MP3) supporting file

Bit rate 32 to 320

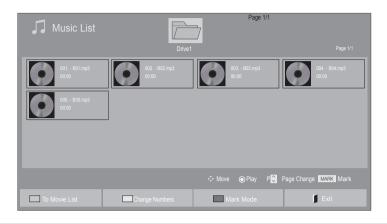
- Sampling rate MPEG1 Layer3 : 32 kHz, 44.1 kHz, 48 kHz
- Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz
- Sampling rate MPEG2.5 Layer3 : 8 kHz, 11.025 kHz, 12 kHz

Screen Components

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



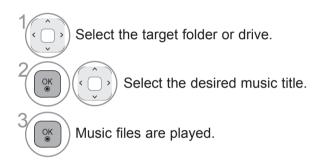
Music Selection



• Use the P ^ v button to navigate up/down in

the music page.

When playing music files



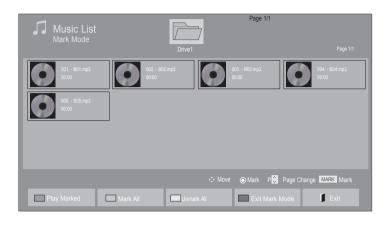
- Using the remote control
 - GREEN
 Repeatedly, press the GREEN button to converted to Movie List->Photo List.

 YELLOW
 A method to view in 5 large thumbnail or simple list.

 BLUE
 Convert to Mark Mode.

 Image: Convert to normal TV viewing.
 Return to normal TV viewing.
- TO USE A USB DEVICE

When selected music files are played



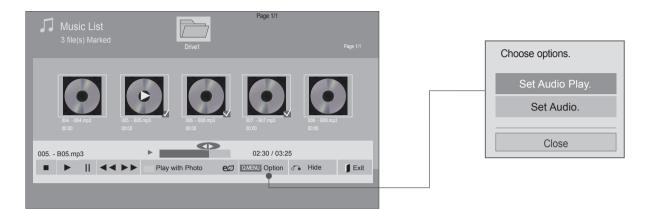


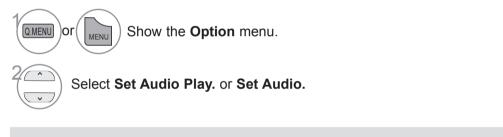
- When one or more music files are marked, the marked music title will be played in sequence. For example, if you want to listen to only one music repeatedly, just mark the music only and play it. If no music is marked, all the music in the folder will be played in sequence.
- If you want to activate Random playback, you must set Option->Set audio play.->Random to On.

Using the remote control

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

Using the Music List function, play





NOTE

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

Using the remote control

	Stop the playing music file.
▶	Press the PLAY(▶) button to return to normal playback.
Ш	When you press the Pause(II) button while playing the file, the playback will be paused. When you press the Pause(II) button again while the playback is paused, it will resume the playback.
44 / >	When playing, When you press the REW(◀◀) button, the previous music file will be played. When you press the FF(►►) button, the next music file will be played.
GREEN	Start playing the selected music files and then move to the Photo List .
ENERGY EXAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.(Refer to p. 86) Only Off/Screen Off operates from the Movie List, Photo List, Music List.
Or Q.MENU	Show the Option menu.
BACK	When you press the Back button while the music is playing, the music player currently playing will be hidden and only the music list will be displayed.
EXIT	 When you press the Exit button while the Music player is displayed, only the music will be stopped and the player will not return to normal TV viewing. When you press the Exit button while the music is stopped or while the music player is hidden, the player will return to normal TV viewing.
<>	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be played.

When you select the Set Audio Play,

Set Audio Pla	ay.		
Repeat		On	Þ
Random	•	Off	
	්	Previous	



When you select the Set Audio,

Set Audio.	
Sound Mode	 ✓ Standard
Auto Volume	 ■ Off
Clear Voice II	< Off ►
Balance	0 < LR >
	Jerevious



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

) Make appropriate adjustments. (Refer to p. 96 to 101)

- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.
- The 'Screen Saver'?

Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.



- ► 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(II), ■, ►►, ◄◄ buttons on the remote control are also available in this mode.
- ▶ You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.

EXTRA CONTENTS

You can play application files on USB device.

Application files your device can be played by this unit.

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

FLASH (*.SWF) / GEM supporting file

An SWF file complied with Flash Lite 3.0 or earlier (the 3.0 version is recommended)

- The Pro:Centric application is required, which starts automatically in the flash memory when the TV is turned on.
- The folder called /hcapfs/as/abs_service/ must exist in USB drive root directory.
- The file called xait.xml must exist in the /hcapfs/as/abs_service/ folder.
- If the above conditions are not met, the following error message is displayed when selecting the Extra Contents option: Failed to execute file in the USB. Please check the files in the USB.
- When the flash file does not run even if the above all conditions are met, refer to the Download Extra Contents of Installation Guide.
- · GEM is composed of JAVA application.

When playing Application files



To stop playing the Application file

Remove the USB from the USB IN jack of the TV set.

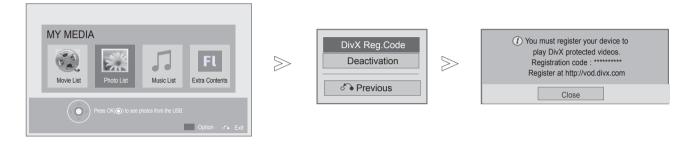
NOTE

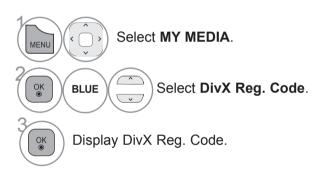
When playing the Application files(FLASH or GEM files), the buttons are controlled according to the settings of the Extra Contents option.

DIVX REGISTRATION CODE

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

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





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



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

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

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

"Pat. 7,295,673; 7,460,688; 7,519,274"

► Movie files are supported as follows

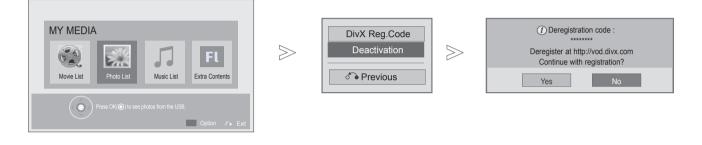
Resolution : under 1920x1080 WxH pixels

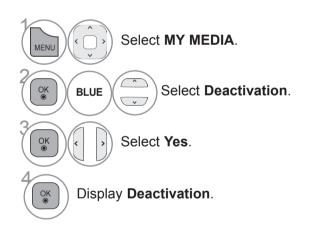
Frame rate : under 30 frames/sec(1920x1080), under 60 frames/sec(under 1280x720)

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.

DEACTIVATION

The purpose of deactivation is to allow deactivation of devices for users who have activated all the available devices through the web_server and are blocked from activating more devices. DivX VOD allowed the consumer to activate up to 6 devices under one account, but to replace or deactivate any of those devices, the consumer had to contact DivX Support and request deletion. Now with this added feature, consumers will be able to deactivate the device themselves and hence better manage their DivX VOD devices.





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

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.

DTV 1 TV ONE		+ Pr. Change	► Next	Watch
Good Morning				
21:00 00:00 Show/Game Show	16:9 720p 🗉 🛄 HE-AAC			
Sarah Bradley, Steve Gray and Brendon Pongia pr with regular and special guests. Sarah Bradley, Steve Gray and Brendon Pongia pr with regular and special crustes			ooking,	Up Down
Shows current program	nme information			
Displayed with a T	V or DTV Programme.	Disp	layed wit	h a Teletext Programme.
Displayed with a R	adio Programme.	Disp	layed wit	h a Subtitle Programme.
MHEG Displayed with a M	IHEG Programme.	Disp	layed wit	h a Scramble Programme.
HE-AAC Displayed with a H	E-AAC Programme.	D Disp	layed wit	h a Dolby Digital Programme.
4:3 Aspect ratio of bro	adcasting programme.	D+ Disp	layed wit	h a Dolby Digital PLUS Programme.
16:9 Aspect ratio of bro	adcasting programme.	576i/p, 720p,	1080i/p :	Resolution of broadcasting programme



Shows next programme information.

Shows other programme information.

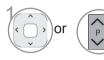


Switch on/off EPG



Switch on or off EPG.

Select a programme

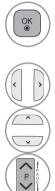


Select desired programme.

EPG (ELECTRONIC PROGRAMME GUIDE)

Button Function in NOW/NEXT Guide Mode

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



RED

Change EPG mode.

When 'Now' is selected, it is moved to selected program and EPG disappears When 'Next' is selected, a reservation pop-up window appears.

Select NOW or NEXT Programme.

Select the Broadcast Programme.

Page Up/Down.

Programme (Guide	
That '70s show	25 Nov. 2008 09:45~10:15	25 Nov. 2008 10:05
ALL	NOW	NEXT
1 YLE TV1	That '70s show	Keno
DTV 2 YLE TV2	Your World Today	World Business
DTV 4 TV	Legenen om Den	Fantomen
DTV 5 YLE FST	Naturtimmen	Kritiskt
™ 6 CNN	Lyssna	ABC
₩ 8 YLE24	Glamour	Tänään otsikoissa
GUIDE Or (BACK Or FXIT	Switch off EPC
	BĂCK	
TV/RAD Se	elect DTV or RA	DIO Programme

Button Function in 8 Day Guide Mode



Change EPG mode.

/	
GRI	EEN

OK ◉ Enter Date setting mode.

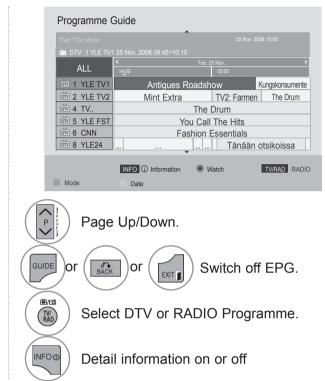
When 'Currently broadcasting programme is selected, it is moved to selected programme and EPG disappears When 'Future broadcasting programme is

selected, a reservation pop-up window appears.



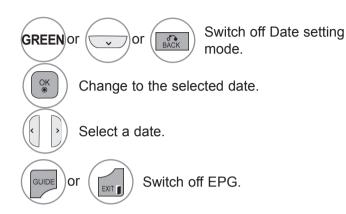
Select Programme.

Select the Broadcast Programme.



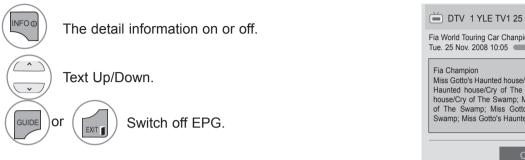
EPG (ELECTRONIC PROGRAMME GUIDE)

Button Function in Date Change Mode



	25 Nov. 2008 09:45~10:15 Τυε 14:00 Antiques Roads	e. 25 Nov. 15:00	•
	14:00	15:00	►
	•		
₩ 1 YLE TV1	Antiques Roads		
	- Antigues Noaus	show	Kungskonsumente
DIV 2 YLE TV2	Mint Extra	TV2: Farmer	The Drum
₩ 4 TV	The	e Drum	
5 YLE FST	You Call The Hits		
🕅 6 CNN	Fashior	Essentials	
0 8 YLE24		Tänään	otsikoissa
	•		
	Date Change		
	Date Exit		

Button Function in Extended Description Box



a World Touring Car Chanpionship e. 25 Nov. 2008 10:05
ia Champion fiss Gotto's Haunted house/Cry of The Swamp; Miss Gotto's launted house/Cry of The Swamp; Miss Gotto's Haunted ouse/Cry of The Swamp; Miss Gotto's Haunted house/Cry f The Swamp; Miss Gotto's Haunted house/Cry of The iwamp; Miss Gotto's Haunted house/Cry of The Swamp;

25 Nov. 2008 10:05

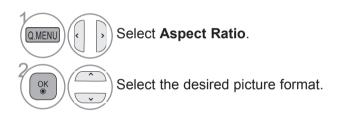
PICTURE SIZE (ASPECT RATIO) CONTROL

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

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

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

This function works in the following signal.



- You can also adjust **Aspect Ratio** in the **PICTURE** menu.
- For Zoom Setting, select **14:9**, **Zoom** and **Cinema Zoom** in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.

• 16:9

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



Just Scan

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

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



Original

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



• Full Wide

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

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



• 4:3

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



• 14:9

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

• Zoom

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



Cinema Zoom

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



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

NOTE

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

CORNERGY SAVING

It reduces the TV's power consumption.

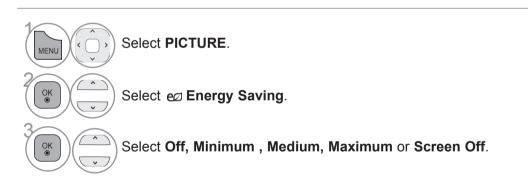
The default factory setting is adjusted to the comfortable level to be viewed at home.

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

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

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

	PICTURE		↔ Move ⊙ OK			PICTURE		↔ Move	
<u>()</u>	Aspect Ratio	: 16:9			6	Aspect Ratio	: 16:9		
	• eØEnergy Saving	: Off	ê			• eØEnergy Saving	: Off	o Off	Å
	Picture Mode	: Standard		<u> </u>		Picture Mode	: Standard		Ÿ
\odot		 Backlight 	70	>	\odot		 Backlight 	7 Minimum	
		Contrast	100				Contrast	10 Medium	
2					2			🗋 🔲 Maximum	
6		 Brightness 			8		 Brightness 	Screen Off	
0		 Sharpness 	70				 Sharpness 	7	
		Colour	70				Colour	70	



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

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

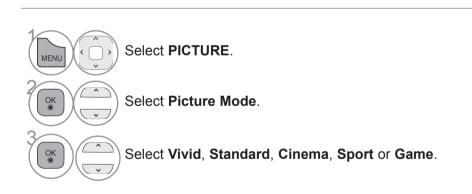
- When you select Screen Off, the screen will be turned off in 3 seconds and Screen Off will start.
- If you adjust "Energy Saving-Maximum", Backlight feature will not work.
- You can also adjust this feature by selecting Energy Saving button on the remote control.

PRESET PICTURE SETTINGS

Picture Mode-Preset

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

	PICTURE		Ĵ→ Move ⊚ OK		PICTURE			re ⊙ OK	
<u>(</u>	Aspect Ratio	: 16:9		<u>()</u>	Aspect Ratio	: 16:9			
	• e Energy Saving	: Off			• e Energy Saving	: Off			
	Picture Mode	: Standard	\$		Picture Mode	: Standard		U Vivid	
\odot		 Backlight 	70	\odot		 Backlight 	70	Standard	Į
2		Contrast	100	٢		Contrast		Cinema	
		 Brightness 	50	-		 Brightness 	50 I	Sport	
6		Sharpness	70			Sharpness	70 🛛	🔲 Game	
		• Colour	70	Ē		• Colour	70	Expert1	
								Expert2	



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

- Press the **BACK** button to move to the previous menu screen.
- **Picture Mode** adjusts the TV for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.
- You can also adjust Picture Mode in the Q. Menu.

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

Backlight

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

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

Contrast

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

Brightness

Adjusts the base level of the signal in the picture.

Sharpness

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

The lower the level, the softer the image.

Adjusts intensity of all colours.

Tint

Adjusts the balance between red and green levels.

Colour Temp.

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

PICTURE Move O K Image: Standard Image: Standard Image: Standard Image: Standard <td< th=""><th>PICTURE • More • OK • Aspect Ratio • 16:9 • eod Energy Saving • Off • Vivid • Picture Mode • Standard • Vivid • Picture Mode • Standard • Vivid • Discure Standard • Contrast 100 • Contrast 100 • Cinema • Brightness 50 • Sport • Sharpness 70 • Colour 70</th></td<>	PICTURE • More • OK • Aspect Ratio • 16:9 • eod Energy Saving • Off • Vivid • Picture Mode • Standard • Vivid • Picture Mode • Standard • Vivid • Discure Standard • Contrast 100 • Contrast 100 • Cinema • Brightness 50 • Sport • Sharpness 70 • Colour 70
Select PICTURE.	 Benefits of using Backlight The electricity consumption is reduced by up to 60 %.
Select Picture Mode.	- The black brightness is reduced. (As the black has greater depth, you can enjoy a
Select Vivid, Standard, Cinema, Sport or Game.	better quality definition.)You can adjust brightness with maintaining original signal resolution.
Select Backlight, Contrast, Brightness, Sharpness, Colour, Tint or Colour Temp	

Make appropriate adjustments.

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

NOTE

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

PICTURE IMPROVEMENT TECHNOLOGY

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

You can set the video value differently for each input.

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

Image shown may differ from your TV.

PICTURE			PICTURE	¢	Nova a OK	
• Screen	Sharpness 70 Colour 60 Tint 0 Colour Temp. 0 Multimode Advanced Control Picture Reset		• Screen	Snarpness Colour Tint Colour Temp Advanced C Picture Rese	Skin Colour	 Medium Medium Off 0 Medium Medium Medium Auto
					Clos	e





Make appropriate adjustments.

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

EXPERT PICTURE CONTROL

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

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

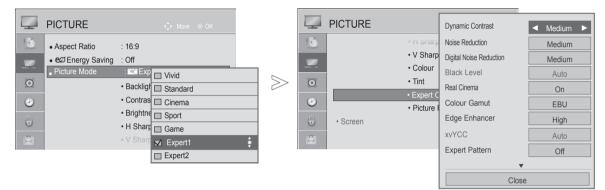
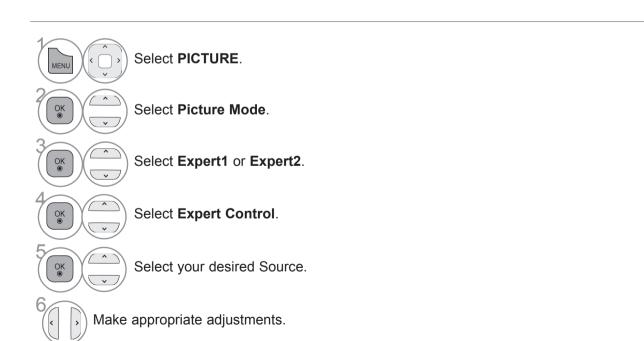


Image shown may differ from your TV.



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

*This feature is not available for all models.

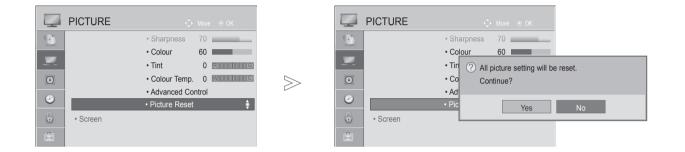
Dynamic Contrast (Off/Low/Medium/High)	 Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour (Off/Low/High)	 Adjusts screen colours so that they look livelier, richer and clearer. This fea- ture enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
Skin Colour (-5 to 5)	 Adjusts skin colour of the picture so that user can set his favourite skin colour.
Noise Reduction (Off/Low/Medium/High/ Auto(In Analogue Mode Only))	 Reduces screen noise without compromising video quality.
Digital Noise Reduction (Low/Medium/High/Off)	 Reduces noise regarding MPEG compressed video.
Gamma (Advanced Control: Low/Medium/High Expert Control: 1.9/2.2/2.4)	 You can adjust brightness of dark area and middle gray level area of the picture. Low/1.9 : Makes dark and middle gray level area of the picture brighter. Medium/2.2 : Expresses original picture levels. High/2.4: Make dark and middle gray level area of the picture darker.
Black Level (Low/High/Auto)	 Low : The picture of the screen gets darker. High : The picture of the screen gets brighter. Auto : Sets black level of the screen to High or Low automatically according to the input signal level. Set black level of the screen to proper level. This function enables to select 'Low' or 'High' in the following mode: AV(NTSC-M), HDMI or Component. Otherwise, 'Black level' is set to 'Auto'.
Clear White (Off/Low/High)	Makes the white area of the screen brighter and clearer.
Eye Care (Low/High/Off)	 *This feature is not available for all models. Adjusts the brightness of the screen automatically to the best level for eyes when the screen is too bright. This feature is disable in "Picture Mode-Vivid, Cinema, Expert1, Expert2".
Real Cinema (On/Off)	 You can watch a cinema-like video by eliminating judder effect. Use this function when you watch film-originated movie contents.

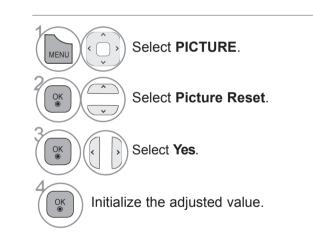
Colour Gamut (Advanced Control:	 Standard : Mode to use original colour area regardless of the display characteristics. Wide: Mode to use maximum colour area of the TV display.
Wide/Standard)	 Maximize the utilization for colour area that can be expressed.
	• Standard : Mode to use original colour area regardless of the display char-
Colour Gamut	acteristics.
(Expert Control: EBU/	• Wide : Mode to use maximum colour area of the TV display.
SMPTE/BT709/Wide/	• EBU : Mode to display EBU colour area.
Standard)	• SMPTE : Mode to display SMPTE colour area.
	• BT709 : Mode to display BT709 colour area.
Edge Enhancer (Off/Low/High)	 Makes the edge of the picture clearer and distinctive. This function can use in "Picture Mode-Expert."
	*This feature is not available for all models.
xvYCC	This is the function to express richer colour.
(Auto/off/on)	This function is enabled in "Picture mode - Cinema, Expert" when xvYCC sig- nal is inputted through HDMI
Expert Pattern	This is the pattern necessary for checking the picture of Digital TV.
(Off/Pattern1/Pattern2)	This function is enabled in "Picture Mode - Expert" when you watch DTV.
Colour Filter	This is the function to filter the specific colours of the video.
(Off/Red/Green/Blue)	You can use the RGB filter to set colour saturation and hue accurately.
Colour Temperature (Medium/Warm/Cool)	 This is the function to adjust the overall colour of the screen to the feeling you want. a. • Method : 2 Points Pattern: Inner, Outer Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 to +50. b. • Method : 10 point IRE Pattern: Inner / Outer IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 to 100. You can adjust Red, Green or Blue according to each setting. Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE.
	Red/Green/Blue: The adjustment range is -50 to +50.
Colour Management	 As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video.
System	 Adjusts Red/Green/Blue/Yellow/Cyan/Magenta. Red/Green/Blue/Yellow/Cyan, Magenta Colour : The adjustment range is -30 to +30. Red/Green/Blue/Yellow/Cyan/Magenta Tint : The adjustment range is -30 to +30. This feature is disable in RGB-PC and HDMI (PC) mode.

PICTURE CONTROL

PICTURE RESET

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





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

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

PICTURE CONTROL

POWER INDICATOR

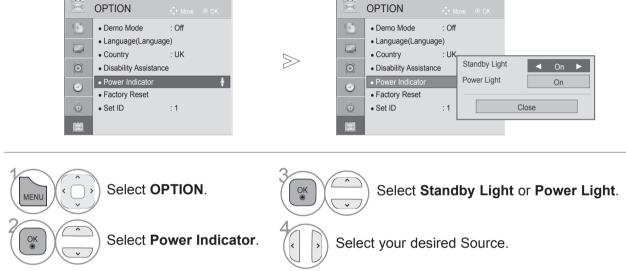
Adjust the power/standby indicator light on the front of the TV.

Standby Light

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

Power Light

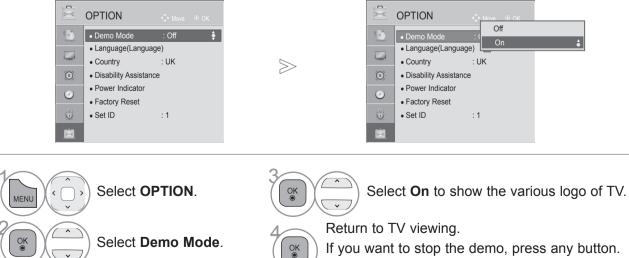
Determines whether to set the indicator light on the front of the TV to On or Off when the power turns on.



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

DEMO MODE

Display the slide show to explain the various logo of this TV. The screen is reset automatically after 5 minutes in Demo Mode.



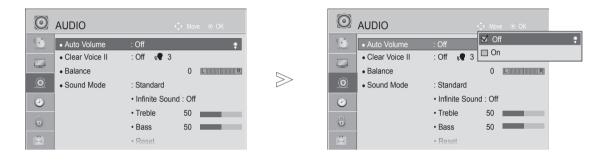
(except for MUTE, \triangle +, - button)

AUTO VOLUME LEVELER

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

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

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





Select AUDIO.

Select Auto Volume.

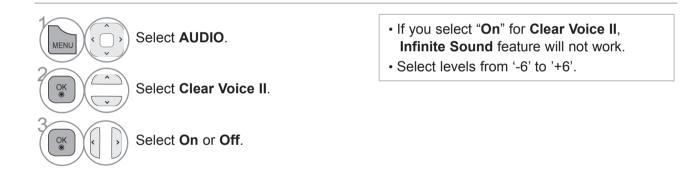
Select On or Off.

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

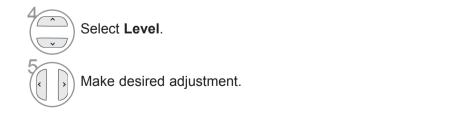
CLEAR VOICE II

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





Adjustment for Clear Voice Level With selecting On



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

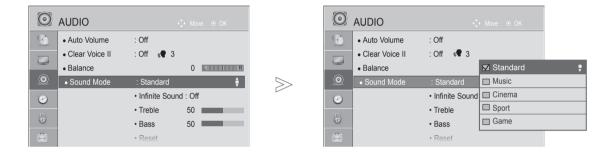
PRESET SOUND SETTINGS-SOUND MODE

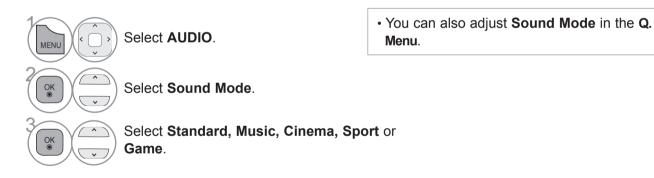
You can select your preferred sound setting; Standard, Music, Cinema, Sport or Game and you can also adjust the Treble, Bass.

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

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

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

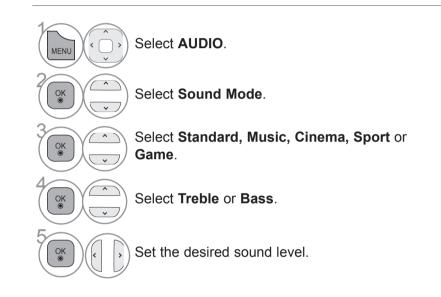




- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

SOUND SETTING ADJUSTMENT -USER MODE

\bigcirc	AUDIO	¢ Move ⊙ Oł	<	\bigcirc	AUDIO	¢	≻ Move ⊙ OK	
<u>()</u>	Auto Volume	: Off		<u>()</u>	Auto Volume	: Off		
	Clear Voice II	: Off 🗬 3			Clear Voice II	: Off 💘 3		
	 Balance 	0			 Balance 		Standard(User	.) 💧
	Sound Mode	: Standard(User)	ê 🔊	$\underline{\bigcirc}$	Sound Mode	: Standard(Use	🔲 Music	
۲		Infinite Sound : Off		2		 Infinite Sound 	Cinema	
		Treble 50				Treble	Sport	
9		• Bass 50		6		Bass	🔲 Game	
		• Reset				• Reset		



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

INFINITE SOUND

Select this option to sound realistic.



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

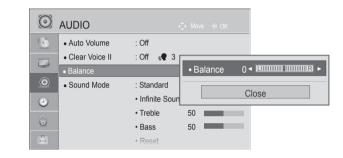
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

BALANCE

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

 \gg







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

DTV AUDIO SETTING (IN DIGITAL MODE ONLY)

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

0	AUDIO				\bigcirc	AUDIO		🗘 Move 💿 OK
(Sound Mode 	: Standard			()	Sound Mode	: Standard	
		Infinite Sour	nd : Off	~			Infinite So	und : Off
		Treble	50	\geq			Treble	50
0		Bass	50		\bigcirc		Bass	50
2		Reset			2		Reset	⊠ Auto
-	 Digital Audio Out 	: PCM			-	Digital Audio Out	: PCM	HE-AAC
8	DTV Audio Setting	: Auto	٢		÷	DTV Audio Setting	: Auto	Dolby Digital+
8								Dolby Digital
								I MPEG



Select AUDIO.

Select DTV Audio Setting.

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

- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- Auto: Automatically outputs in the order HE-AAC > Dolby Digital + > Dolby Digital > MPEG. (Except for Italy)

Auto: Automatically outputs in the order HE-AAC > Dolby Digital+ > MPEG > Dolby Digital. (Only Italy)

• HE-AAC, Dolby Digital+, Dolby Digital, MPEG: Allows users to select the audio type they want. ex) If MPEG is selected, MPEG is always outputted.

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

• Refer to p. 109 to 110 (Audio Language Selection)

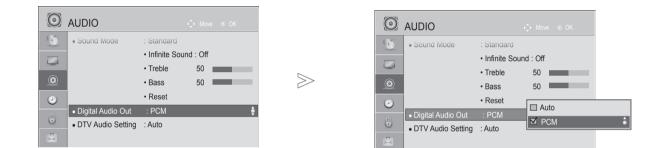
SELECTING DIGITAL AUDIO OUT

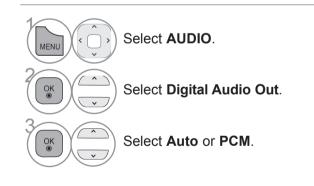
This function allows you to select your preferred Digital Audio Output.

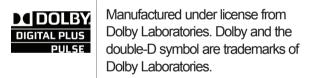
When Dolby Digital is available, selecting Auto in the Digital Audio Out menu will set SPDIF(Sony Philips Digital InterFace) output to Dolby Digital.

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.







• There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM. (In HDMI, Dolby Digital Plus is not supported).

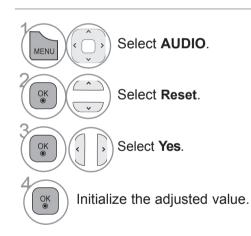
Item	Audio Input	Digital Audio output
Auto(Speaker On)	MPEG Dolby Digital Dolby Digital Plus HE-AAC	PCM Dolby Digital Dolby Digital PCM
Auto(Speaker Off)	MPEG Dolby Digital Dolby Digital Plus HE-AAC	PCM Dolby Digital Dolby Digital Dolby Digital
PCM	All	PCM

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

AUDIO RESET

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





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

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

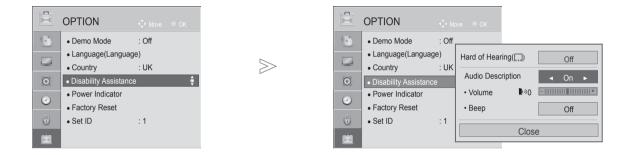
AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)

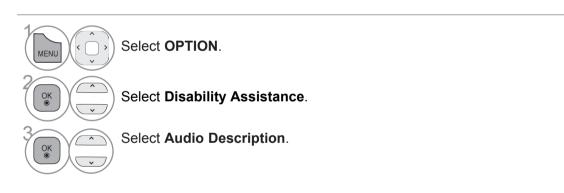
This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.

When Audio Description On is selected, basic audio and Audio Description are provided only for those programmes that have Audio Description included.

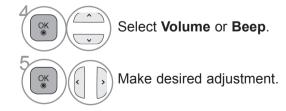
Volume Changes the Audio Description volume

Beep Beeps when a programme with Audio Description information is selected





Adjustment for Audio Description Volume With selecting On

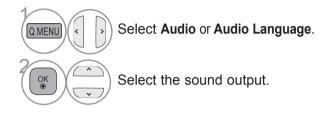


- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

|/||

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.



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

Mono sound selection

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

Language selection for dual language broadcast

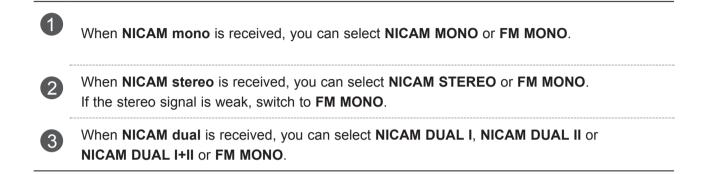
If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

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

NICAM RECEPTION (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.



SPEAKER SOUND OUTPUT SELECTION

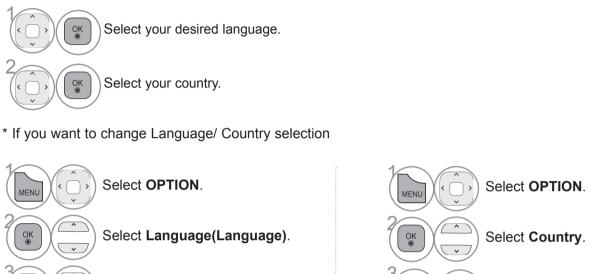
In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loudspeakers.

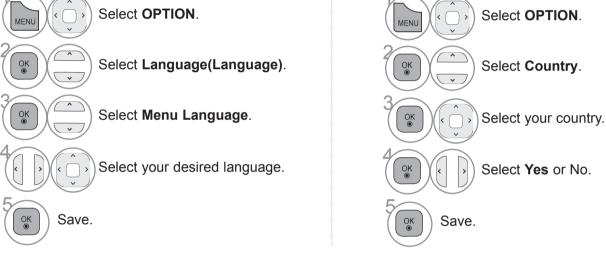
Select the sound output.

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

ON-SCREEN MENU LANGUAGE / COUNTRY SELECTION

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





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

- ► If you do not finish the set-up **Installation Guide** by pressing **BACK** or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on.
- If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- ► The CI (Common Interface) function may not be applied based on country broadcasting circumstances.
- ▶ DTV mode control buttons may not function based on country broadcasting circumstances.
- In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances.
- ► The Country Setting "UK" should only be activated in UK.
- If the country setting is set to "--", European terrestrial digital standard broadcasting programmes are available, but some DTV functions may not work properly.

LANGUAGE SELECTION

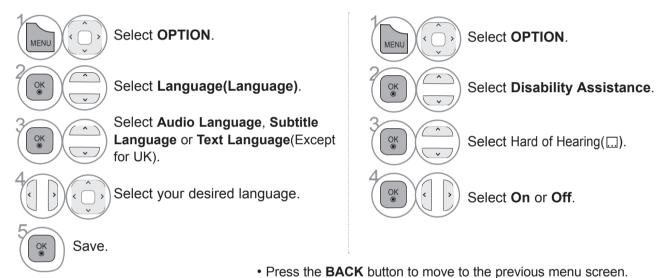
The Audio function allows selection of a preferred language.

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

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

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

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



< Audio Language Selection >

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

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



Select Audio or Audio Language.

Select an audio language.

< Subtitle Language Selection >

- When two or more subtitle languages are broadcast, you can select the subtitle language with the SUBTITLE button on the remote control.
- \blacktriangleright Press the $\land \lor$ button to select a subtitle language.

Subtitle Language OS	SD Information
----------------------	----------------

Display	Status
N.A	Not Available
ТХТ	Teletext Subtitle
ABC	Subtitle for "Hard of Hearing"

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

TIME SETTING

CLOCK SETUP

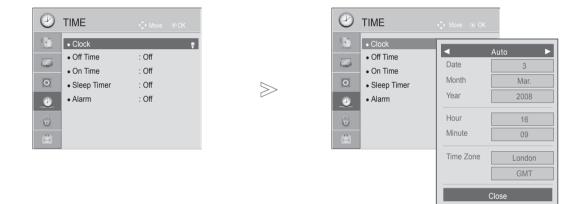
The clock is set automatically when receiving a digital signal in **Auto** mode. You can set the clock manually in **Manual** mode.

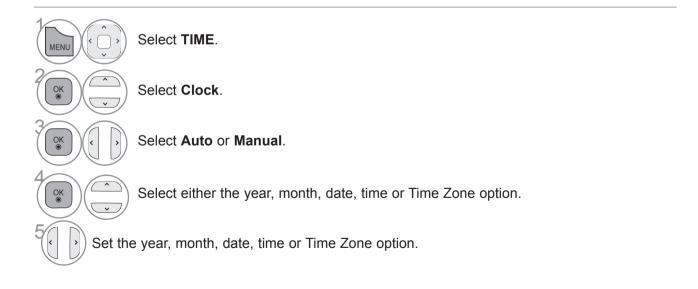
You must set the time correctly before using on/off timer function.

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

When if the city name in Time Zone is changed into offset, you can change time by 1 hour.

Time Zone menu can be changed in Auto mode.





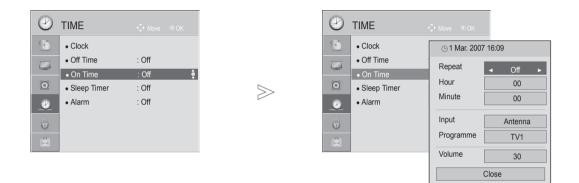
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

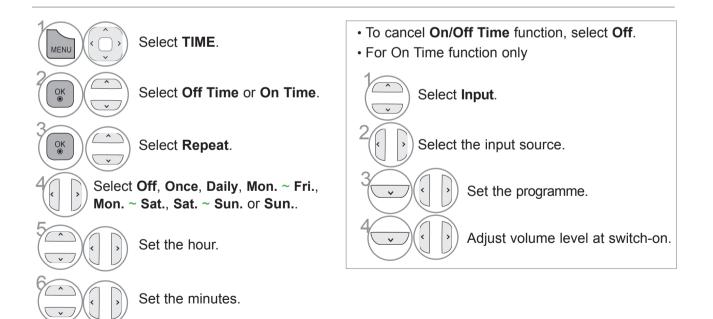
TIME SETTING

AUTO ON/OFF TIME SETTING

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

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





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

SLEEP TIMER SETTING

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



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

ALARM SETTING

The alarm sound will go off when the designated time passes. When 60 seconds pass, the alarm sound will stop.

If you do not want Alarm function, select "Off"

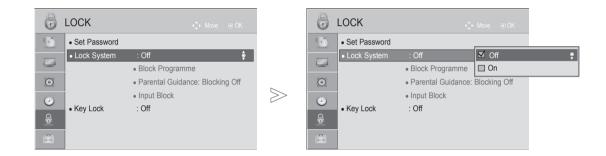
Image: Clock • Clock • Clock • Off Time • Off Time : Off • On Time : Off • Sleep Timer : Off • Alarm : Off	Image: Second
Select TIME.	 When alarm operates in standby mode, press the any button to stop alarm. When alarm operates in power on mode, press the OK button to stop alarm.
Select On.	
Set the hour.	Press the MENU/EXIT button to return to nor-
Set the minutes.	mal TV viewing.Press the BACK button to move to the previous menu screen.

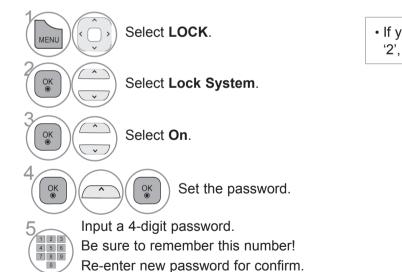
PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0' on the remote control handset. When France is selected for Country, password is not '0', '0', '0', '0' but '1', '2', '3', '4'. When France is selected for Country, password cannot be set as '0', '0', '0'.

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





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

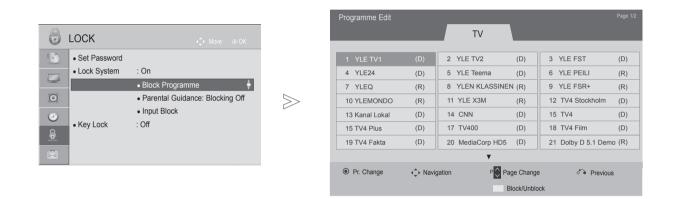
- Press the MENU/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

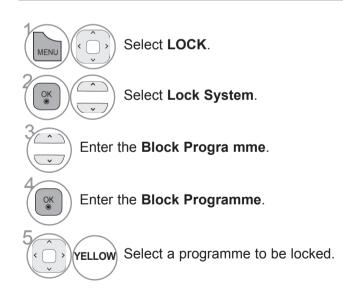
BLOCK PROGRAMME

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

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

Enter a password to watch a blocked programme.





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

PARENTAL CONTROL / RATINGS

PARENTAL CONTROL (IN DIGITAL MODE ONLY)

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

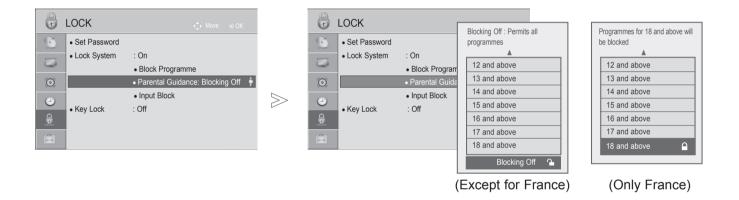
A password is required to gain access to this menu.

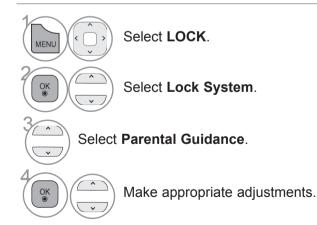
This set is programmed to remember which option it was last set to even if you switch the set off.

Prevents children from watching certain adult's TV programmes, according to the ratings limit set.

Enter a password to watch a blocked programme.

Rating differs by country.





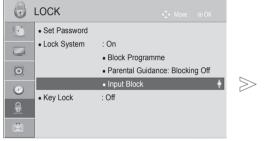
• Press the **MENU/EXIT** button to return to normal TV viewing.

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

EXTERNAL INPUT BLOCKING

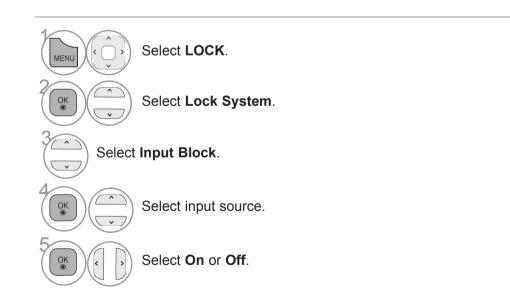
Enables you to block an input.

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



■ Image shown may differ from your TV.

6	LOCK		🔶 Move 🧕	OK		
(Set Password					
	Lock System	: On • Block Progra	• AV	•	Off	•
0		Parental Gui	Component		Off	
2		 Input Block 	• RGB		Off	
8	 Key Lock 	: Off	• HDMI1		Off	
			• HDMI2		Off	
			(Close		



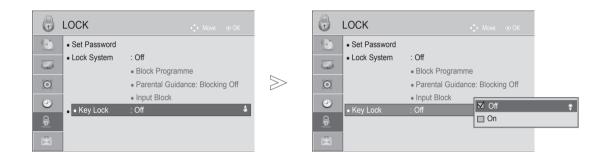
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

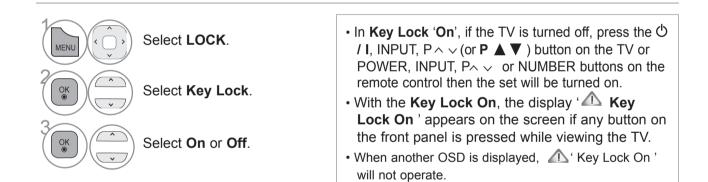
PARENTAL CONTROL / RATINGS

KEY LOCK

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

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





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



This feature is not available 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.

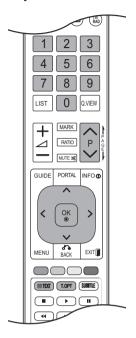
SWITCH ON/OFF

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.

 Image shown may differ from your TV.



SIMPLE TEXT

Page selection

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

TELETEXT

TOP TEXT

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

Block / group / page selection

- With the blue button you can progress from block to block.
- **2** Use the yellow button to proceed to the next group with automatic overflow to the next block.
- With the green button you can proceed to the next existing page with automatic overflow to the next group.
- Alternatively the P ^ button can be used.

The red button returns to the previous selection. Alternatively the P $\scriptstyle{\lor}$ button can be used.

Direct page selection

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

FASTEXT

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

Page selection

- **1** Press the **T.OPT** button and then use $\land \lor$ button to select $\exists i d$ menu. Display the index page.
- You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- S AS with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- 4 The $P \land \lor$ button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

■ Press the **T. OPT** button and then use ^ button to select the **Text Option** menu. In UK(In digital mode), T. OPT button does not work.



Index

Select the each index page.

Ð

Time

 Text Option

 Index

 Image: Close

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.

DIGITAL TELETEXT

*This function works in UK, Ireland only.

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 $\mathbf{P} \land \lor$ button to select a digital service which broadcasts digital teletext.

2

3

Follow the indications on digital teletext and move onto the next step by pressing **TEXT**, **OK**, $\land \lor < \Rightarrow$, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and etc..

To change digital teletext service, select a different service by the numeric or $\mathbf{P} \land \lor$ button.



TELETEXT IN DIGITAL SERVICE

Press the numeric or $\mathbf{P} \wedge \vee$ button to select a certain service which broadcasts digital teletext.

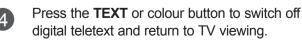


1

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



Follow the indications on digital teletext and move onto the next step by pressing **OK**, $\land \lor < \Rightarrow$, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and so on.



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



APPENDIX

TROUBLESHOOTING

The TV does not operate properly.		
The remote control does not work	 Check to see if there is any object between the TV and the remote control causing an obstruction. Ensure you are pointing the remote control directly at the TV. Ensure that the batteries are installed with correct polarity (+ to +, - to -). Install new batteries. 	
Power is suddenly	Is the sleep timer set?	
turned off	• Check the power control settings. Has the Power supply been interrupted.	

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

APPENDIX

APPENDIX

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

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

MAINTENANCE

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

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

Cleaning the Screen

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



Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

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

Extended Absence

ACAUTION

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

APPENDIX

PRODUCT SPECIFICATIONS

MODELS		22LD3***	26LD3***
		22LD320H-ZA	26LD320H-ZA 26LD322H-ZA
Dimensions (Width x Height x	with stand	533.4mmx 397.0mmx 171.0 mm	667.0 mm x 504.0 mm x 224.0 mm
Depth)	without stand	533.4mmx 351.7mmx 65.0 mm	667.0 mm x 446.2 mm x 80.0 mm
Weight	with stand without stand	4.8 kg 4.6 kg	8.9 kg 7.8 kg
Power requirement Power Consumption		AC 100-240 V~ 50 / 60 Hz 50 W	AC 100-240 V~ 50 / 60 Hz 100 W
MODELS		32LD3***	37LD3***
		32LD320H-ZA 32LD322H-ZA	37LD322H-ZA
Dimensions (Width x Height x	with stand	805.0 mm x 583.0 mm x 224.0 mm	922.0 mm x 659.0 mm x 297.0 mm
Depth)	without stand	805.0 mm x 528.0 mm x 79.9 mm	922.0 mm x 595.0 mm x 88.0 mm
Weight	with stand without stand	11.5 kg 10.3 kg	14.8 kg 13.0 kg
Power requirement Power Consumption		AC 100-240 V~ 50 / 60 Hz 120 W	AC 100-240 V~ 50 / 60 Hz 180 W
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	
	Operating Temperature	0 °C to 40 °C Less than 80 %	
Environment condition	Operating Humidity		
	Storage Temperature Storage Humidity	-20 °C to 60 °C Less than 85 %	
Supported movie files		Refer to p. 46 to 47	

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

	Digital TV	Analogue TV
Tolovision System	DVB-T	PAL/SECAM B/G/D/K, PAL I/II,
Television System	DVB-C	SECAM L/L'
Drogramma Cavaraga		VHF: E2 to E12, UHF: E21 to E69,
Programme Coverage	VHF, UHF	CATV: S1 to S20, HYPER: S21 to S47
Maximum number of storable programme	500	
External Antenna Impedance	75 Ω	75 Ω

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

IR CODES

*This feature is not available for all models.

Code (Hexa)	Function	Note
95	Energy Saving	R/C BUTTON
08	POWER	R/C BUTTON(POWER ON/OFF)
08 0B	INPUT	R/C BUTTON
79	RATIO	R/C BUTTON
F0	TV/RAD	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	MENU	R/C BUTTON
AB	GUIDE	R/C BUTTON
40	Up (^)	R/C BUTTON
41	Down (>)	R/C BUTTON
07	Left (<)	R/C BUTTON
06	Right (>)	R/C BUTTON
44	OK()	R/C BUTTON
28	BACK	R/C BUTTON
5B	EXIT	R/C BUTTON
AA	INFO (j)	R/C BUTTON
30	AV MODE	R/C BUTTON
02	⊿+	R/C BUTTON
03	⊿-	R/C BUTTON
1E	MARK	R/C BUTTON
OC	PORTAL	R/C BUTTON
09	MUTE	R/C BUTTON
00	Ρ ^	R/C BUTTON
01	P v	R/C BUTTON
10 to 19	Number Key 0 to 9	R/C BUTTON
53	LIST	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
72	RED Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
61	BLUE Key	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.OPT(T.Option)	R/C BUTTON
39	SUBTITLE	R/C BUTTON
7E	SIMPLINK	R/C BUTTON
91	AD	R/C BUTTON
E8	ALARM	R/C BUTTON
B1		R/C BUTTON
В0	►	R/C BUTTON
BA	II	R/C BUTTON
8F	••	R/C BUTTON
8E	••	R/C BUTTON

APPENDIX

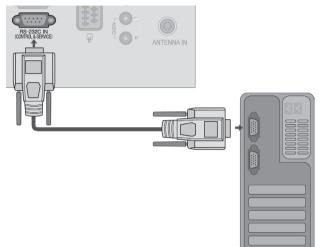
EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

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

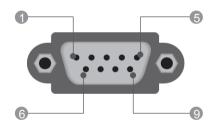
Connect the serial port of the control device to the RS-232C jack on the product back panel.

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



Type of Connector; D-Sub 9-Pin Male

No.	Pin Name
1	No connection
2	RX RS232
3	TX RS232
4	IR from TV
5	GND
6	No connection
7	+5V
8	No connection
9	+12V

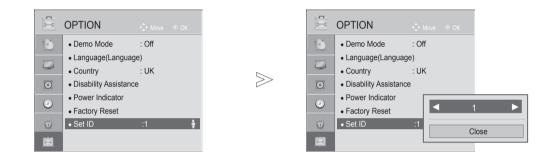


RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)	3-Wire Configurations(Not standard)
PC TV	PC TV
2 • 3	2 • 3
3 • 2	3 • 2
5 • 5 4 • 6	$5 \bullet 5$ 4 6
6 4	6 4
7 • 8	7 7
8 • 7	8 8
D-Sub 9 D-Sub 9	D-Sub 9 D-Sub 9

Set ID

Use this function to specify a set ID number. Refer to 'Real Data Mapping'. ► **p.133**.





Select **OPTION**.

Select Set ID.

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

 \bullet Press the BACK button to move to the previous menu screen.

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	а	00 to 01
02. Aspect Ratio	k	С	Refer to p. 131
03. Screen Mute	k	d	Refer to p. 131
04. Volume Mute	k	е	00 to 01
05. Volume Control	k	f	00 to 64
06. Contrast	k	g	00 to 64
07. Brightness	k	h	00 to 64
08. Colour	k	i	00 to 64
09. Tint	k	j	00 to 64
10. Sharpness	k	k	00 to 64
11. OSD Select	k	I	00 to 01
12. Remote control lock mode	k	m	00 to 01
13. Treble	k	r	00 to 64
14. Bass	k	s	00 to 64
15. Balance	k	t	00 to 64
16. Colour Temperature	х	u	00 to 64
17. Energy Saving	j	q	00 to 05
18. Auto Configuration	j	u	01
19. Tune Command	m	а	Refer to p. 133
20. Programme Add/Skip	m	b	00 to 1
21. Key	m	С	Key Code
22. Control Back Light	m	g	00 to 64
23. Input select (Main)	х	b	Refer to p. 134

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

■ Use a crossed (reverse) cable.

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

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

*	[Command 1]:	First command to control the TV. $(i, k, m \text{ or } x)$
	[Command 2 [Set ID]	-	Second command to control the TV. You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 to 99. When selecting Set ID '0', every con- nected set is controlled. Set ID is indicated as decimal (1 to 99) on menu and as Hexa decimal (0x0 to 0x63) on transmission/receiving proto- col.
*	[DATA]	:	To transmit command data. Transmit 'FF' data to read status of com- mand.
*	[Cr]	:	Carriage Return ASCII code '0x0D'
*	[]	:	ASCII code 'space (0x20)'

OK Acknowledgement

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

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

Error Acknowledgement

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

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

Data 00: Illegal Code

01. Power (Command: k a)

► To control Power On/Off of the set. <u>Transmission</u>

[k][a][][Set ID][][Data][Cr] Data 00 : Power Off 01 : Power On Ack

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

► To show Power On/Off. *Transmission*

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

<u>Ack</u>

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

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

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

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

<u>Transmission</u>

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

 Data
 01 : Normal screen (4:3)
 07 : 14:9

 02 : Wide screen (16:9)
 09 : Just Scan

 04 : Zoom
 0B : Full Wide

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

<u>Ack</u>

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

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

03. Screen Mute (Command: k d)

► To select screen mute on/off. <u>Transmission</u>

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

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

<u>Ack</u>

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

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

04. Volume Mute (Command: k e)

To control volume mute on/off. You can also adjust mute using the MUTE button on remote control.

<u>Transmission</u>

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

Data 00 : Volume mute on (Volume off)

01 : Volume mute off (Volume on)

<u>Ack</u>

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

05. Volume Control (Command: k f)

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

<u>Transmission</u>

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

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu. Transmission

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

07. Brightness (Command: k h)

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

<u>Transmission</u>

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

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 133. <u>Ack</u>

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

08. Colour (Command: k i)

► To adjust the screen colour.

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

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

09. Tint (Command: k j)

To adjust the screen tint.

You can also adjust tint in the PICTURE menu.

<u>Transmission</u>

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

Data Red : 00 to Green : 64

* Refer to 'Real data mapping 1'. See page 133. <u>Ack</u>

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

10. Sharpness (Command: k k)

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

<u>Transmission</u>

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

Data Min : 00 to Max : 64 * Refer to 'Real data mapping 1'. See page 133..

<u>Ack</u>

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

11. OSD Select (Command: k I)

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

Transmission

[k][l][][Set ID][][Data][Cr] Data 00 : OSD off 01 : OSD on <u>Ack</u>

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

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

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

Transmission

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

Data 00 : Lock off 01 : Lock on

<u>Ack</u>

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

- * If you are not using the remote control, use this mode.
- When main power is on/off, external control lock is released.
- * In the standby mode, if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Treble (Command: k r)

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

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

14. Bass (Command: k s)

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

<u>Transmission</u>

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

Data Min : 00 to Max : 64 * Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

15. Balance (Command: k t)

- To adjust balance.
- You can also adjust balance in the AUDIO menu. *Transmission*

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

16. Colour Temperature (Command: x u)

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

<u>Transmission</u>

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 133.

<u>Ack</u>

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

17. Energy Saving (Command: j q)

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

<u>Transmission</u>

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

	Power Saving Function			Level				Description	
7	6	5	4		3	2	1	0	·
0	0	0	0	Low Power	0	0	0	0	Off
0	0	0	0	Low Power	0	0	0	1	Minimum
0	0	0	0	Low Power	0	0	1	0	Medium
0	0	0	0	Low Power	0	0	1	1	Maximum
0	0	0	0	Low Power	0	1	0	1	Screen Off

<u>Ack</u>

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

18. Auto Configure(Command: j u)

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

<u>Transmission</u>

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

Data 01: To set

<u>Ack</u>

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

19.Tune Command (Command: m a)

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

[m][a][][Set ID][][Data0][][Data1][][Data2][Cr] Data00 : High channel data Data01 : Low channel data ex. No. 47 -> 00 2F (2FH) No. 394 -> 01 8A (18AH), DTV No. 0 -> Don't care Data02 : 0x00 : Analogue Main 0x10 : DTV Main

Channel data range Analogue - Min: 00 to Max: 63 (0 to 99) Digital - Min: 00 to Max: 3E7 (0 to 999) (Except For Sweden, Finland, Norway, Denmark, Ireland) Digital - Min: 00 to Max: 270F (0 to 9999) (Only Sweden, Finland, Norway, Denmark, Ireland)

<u>Ack</u>

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

0x20 : Radio

Data Min: 00 to Max: 7DH

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

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

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

<u>Ack</u>

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

* Real	data mapping 1
00 :	Step 0
:	
A :	Step 10 (Set ID 10)
:	
F :	Step 15 (Set ID 15)
10 :	Step 16 (Set ID 16)
:	
64 :	Step 100
:	
6E :	Step 110
:	
73 :	Step 115
74 :	Step 116
:	
CF :	Step 199
:	
FE :	Step 254
FF :	Step 255

APPENDIX

21. Key(Command: m c)

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

[m][c][][Set ID][][Data][Cr] Data Key code - Refer to page 127.

<u>Ack</u>

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

22. Control Back Light (Command: m g)

► To Control the back light. <u>*Transmission*</u>

[m][g][][Set ID][][Data][Cr] Data : data Min: 00 to Max: 64

<u>Ack</u>

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

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

► To select input source for main picture. <u>Transmission</u>

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

MSB

LSB

0	0	0	0	0	0	0	0	
	Exterr	nal Inp	out 🕹					
E	xterna	al Inp	ut	Data				
0	0	0	0		DT	V		
0	0	0	1	A	Analo	gue		
0	0	1	0		AV	'		
0	1	0	0	С	ompo	nent		
0	1	1	0		RG	В		
0	1	1	1					
1	0	0	0		HDN	11		
1	0	0	1		יוטח	VII		
1	0	1	0					

In	Input Number			Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

<u>Ack</u>

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

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Version 1.1

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