



LG

Life's Good

LCD TV OWNER'S MANUAL

LCD TV MODELS

32LF73 **

42LF73 **

32LH33 **

42LH33 **

Please read this manual carefully before operating your TV. Retain it for future reference.
Record model number and serial number of the TV. Refer to the label on the back cover and quote this information to your dealer when requiring service.

Model :

Serial No. :



**Digital Video
Broadcasting**

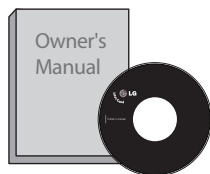
Trade Mark of the DVB Digital Video
Broadcasting Project (1991 to 1996)

ID Number(s) : 6504 : 32LF7300
6503 : 42LF7300
6506 : 32LH3300
6505 : 42LH3300

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.

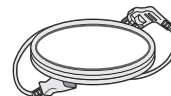
- Image shown may differ from your TV.



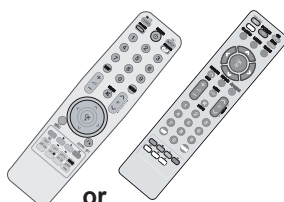
Owner's Manual



Batteries

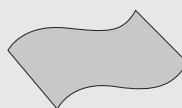


Power Cord



Remote Control

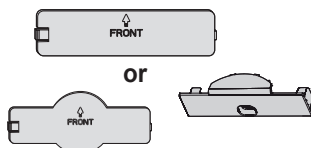
This item is not included for all models.



Polishing Cloth
Polishing cloth for use on the screen.

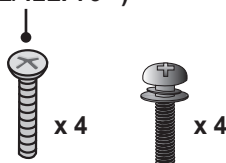
* Lightly wipe any stains or fingerprints on the surface of the TV with the polishing cloth.

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



Protection Cover
(Refer to p.12)

(Only 32/42LF73**)



Bolts for stand assembly
(Refer to p.8)

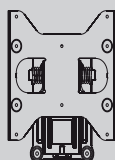
(Only 32LF73**, 32/42LH33**)



1-screw for stand fixing
(Refer to p.9)

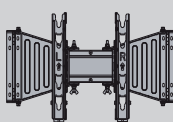
Wall Mounting Bracket (Seperate purchase)

RW230



(32LF73**, 32LH33**)

AW-47LG30M



(32/42LF73**, 32/42LH33**)



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

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NOTICE

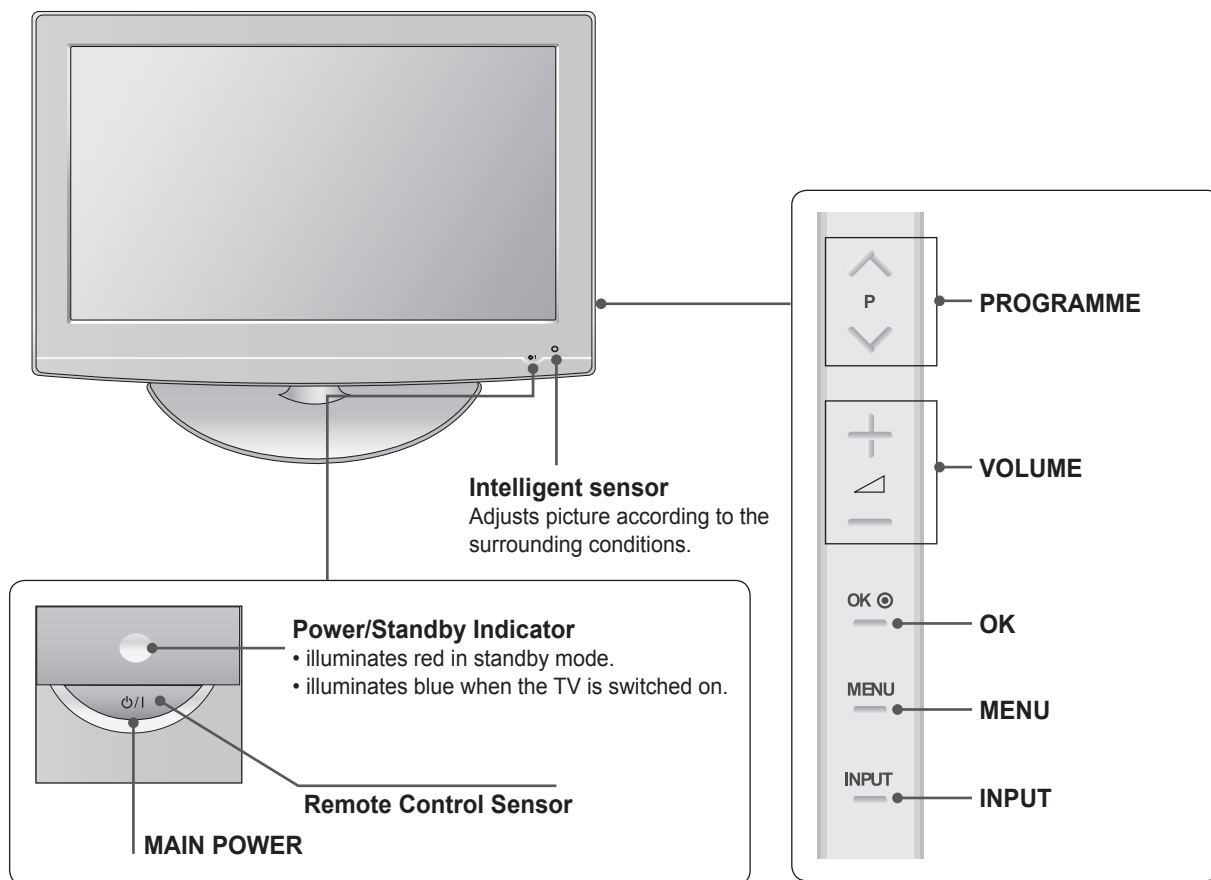
- This product incorporates copy protection technology that is protected by U.S. and foreign patents, including patent numbers 5,315,448 and 6,836,549, and other intellectual property rights. The use of Macrovision's copy protection technology in the product must be authorized by Macrovision. Reverse engineering or disassembly is prohibited.

PREPARATION

FRONT PANEL CONTROLS

Image shown may differ from your TV.

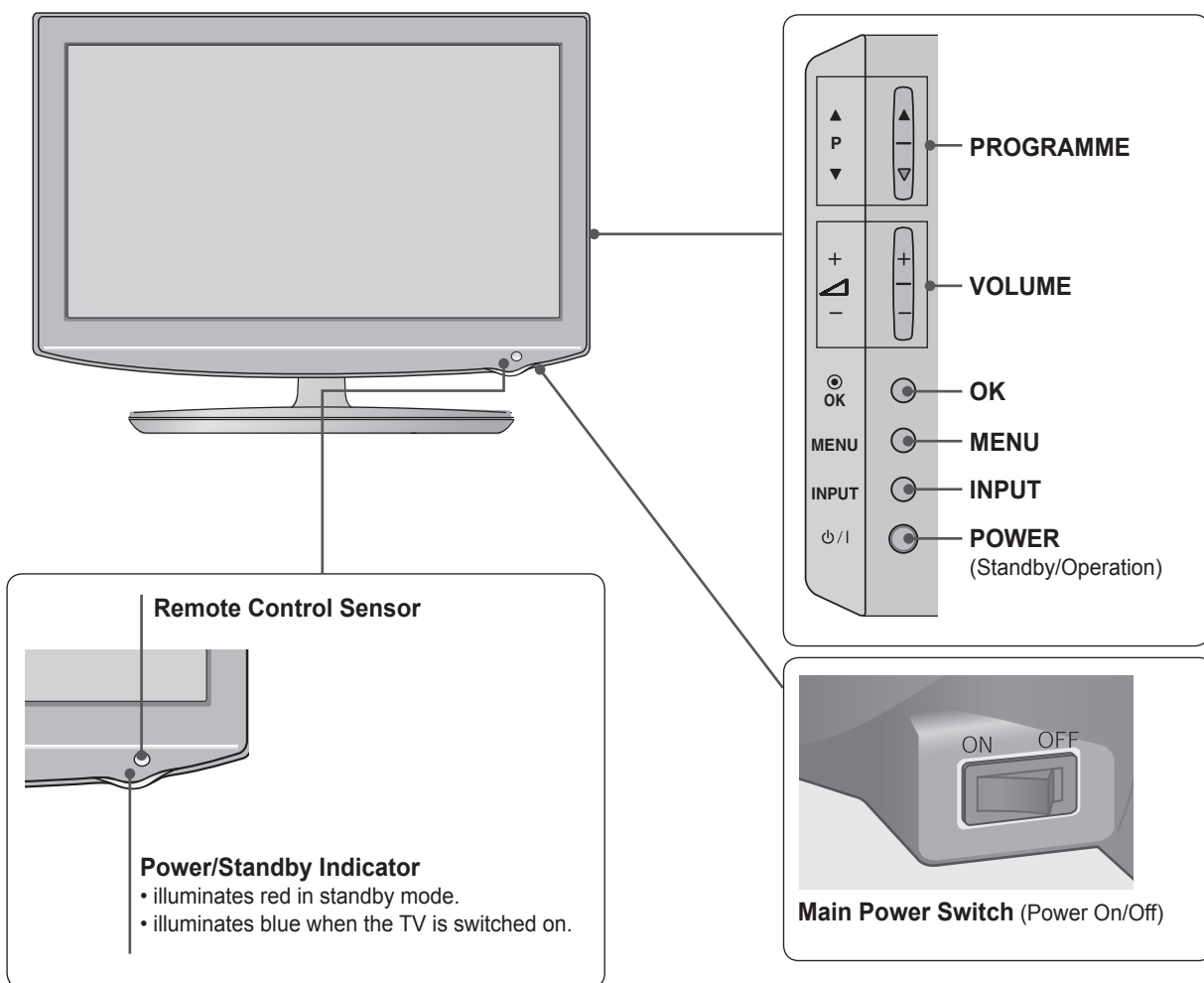
32/42LF73**



CAUTION

- ▶ When the TV cannot be turned on with the remote control, press the main power button on the TV. (When the power is turned off with the main power button on the TV, it will not be turned on with the remote control).

32/42LH33**



CAUTION

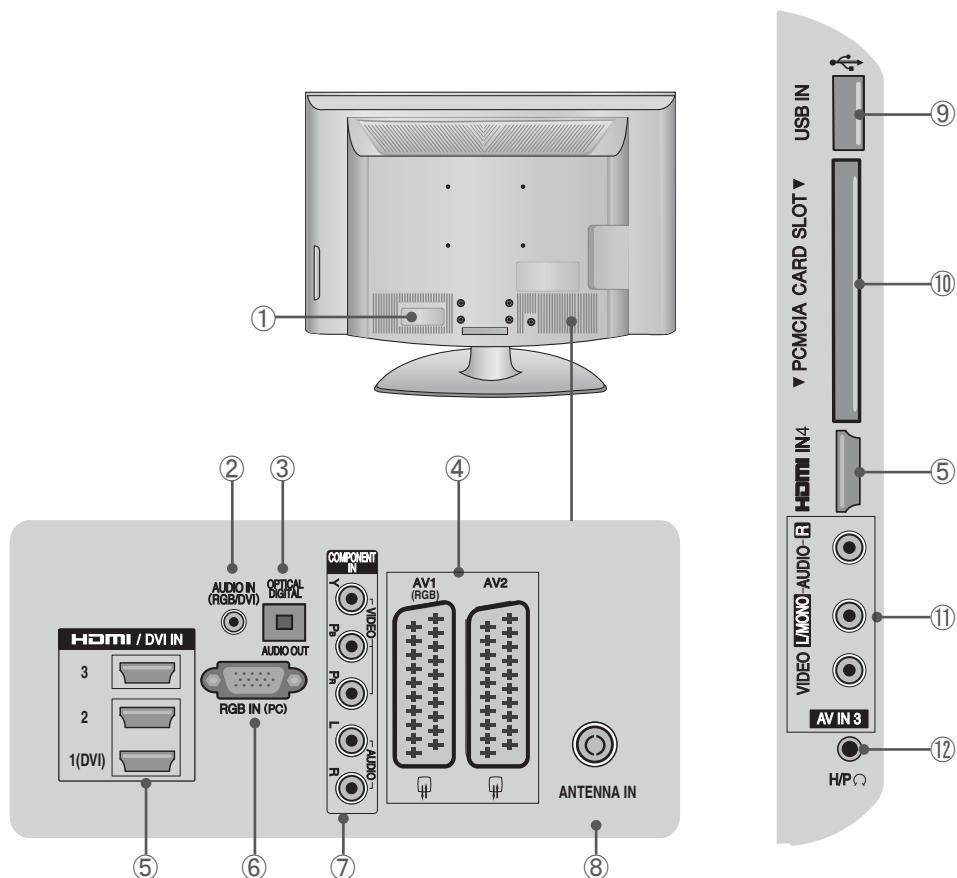
- ▶ When the TV cannot be turned on with the remote control, turn on the main power switch on the TV. (When the main power switch is off, the TV will not be turned on with the remote control.)

PREPARATION

BACK PANEL INFORMATION

- Image shown may differ from your TV.

32/42LF73**



① Power Cord Socket

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

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

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

④ Euro Scart Socket (AV1 / AV2)

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

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ Component Input

Connect a component video/audio device to these jacks.

⑧ Antenna Input

Connect antenna or cable to this jack.

⑨ USB Input

Connect USB storage device to this jack.

⑩ PCMCIA (Personal Computer Memory Card International Association) Card Slot

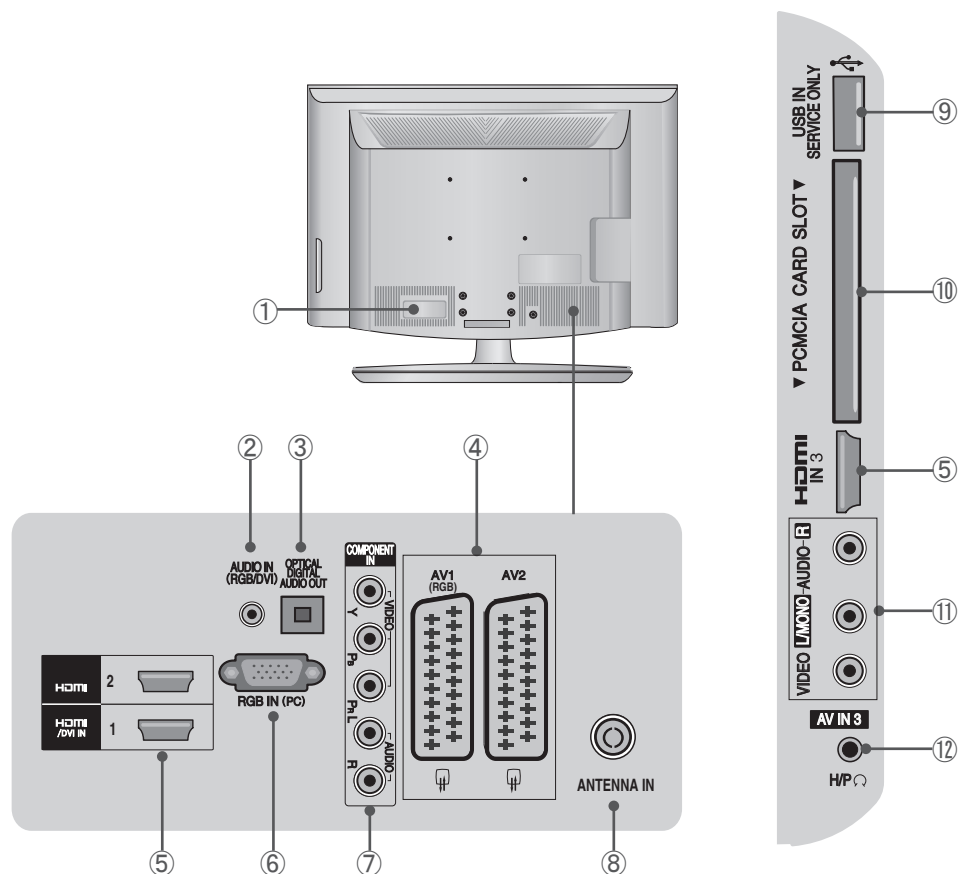
Insert the CI Module to PCMCIA CARD SLOT. (This feature is not available in all countries.)

⑪ Audio/Video Input

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

⑫ Headphone Socket

Plug the headphone into the headphone socket.



① Power Cord Socket

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

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Connect the audio from a PC or DTV.

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ Component Input

Connect a component video/audio device to these jacks.

⑧ Antenna Input

Connect antenna or cable to this jack.

⑨ SERVICE ONLY PORT

⑩ 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.)

⑪ Audio/Video Input

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

⑫ Headphone Socket

Plug the headphone into the headphone socket.

PREPARATION

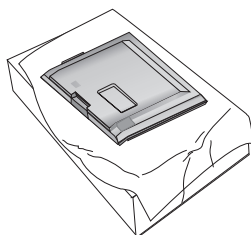
STAND INSTALLATION

- Image shown may differ from your TV.

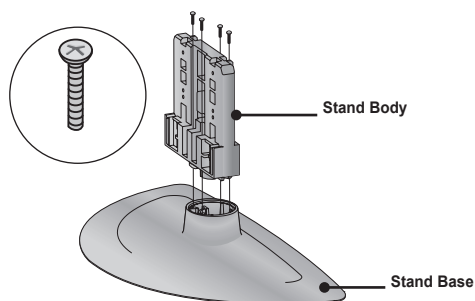
When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

Only 32/42LF73**

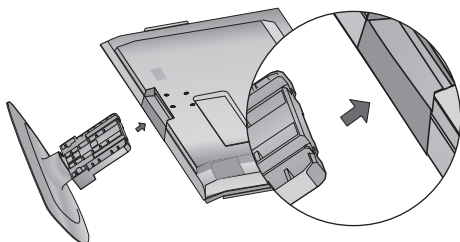
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



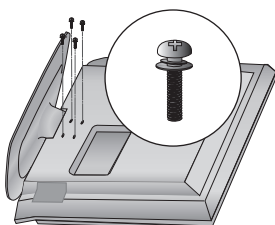
- 2 Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



- 3 Assemble the TV as shown.

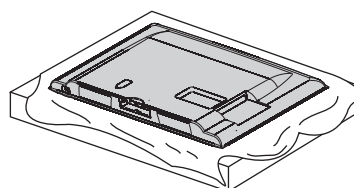


- 4 Fix the 4 bolts securely using the holes in the back of the TV.

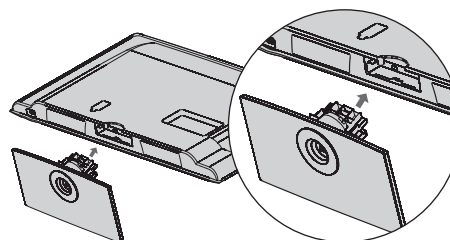


Only 32/42LH33**

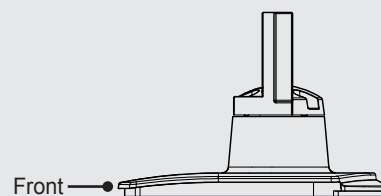
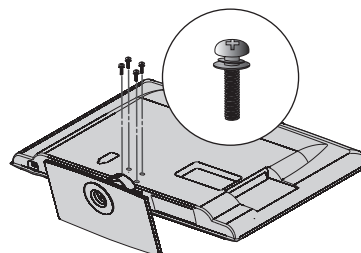
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Assemble the TV as shown.



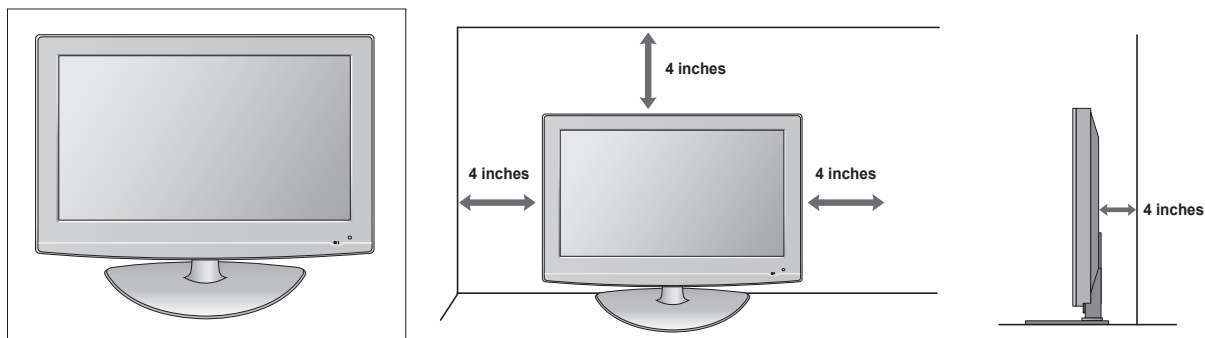
- 3 Fix the 4 bolts securely using the holes in the back of the TV.



When assembling the stand, make sure to distinguish and assemble the front and rear side of the stand correctly.

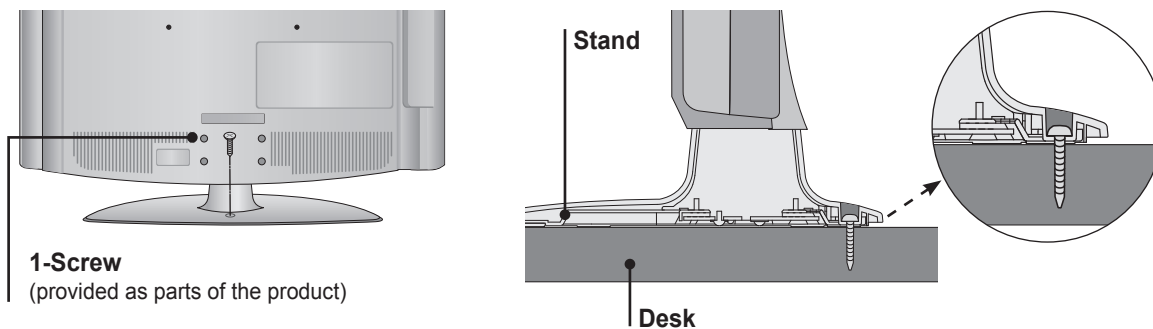
DESKTOP PEDESTAL INSTALLATION

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



ATTACHING THE TV TO A DESK (ONLY 32LF73**, 32/42LH33**)

The TV must be attached to desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product. Use only an attached screw.



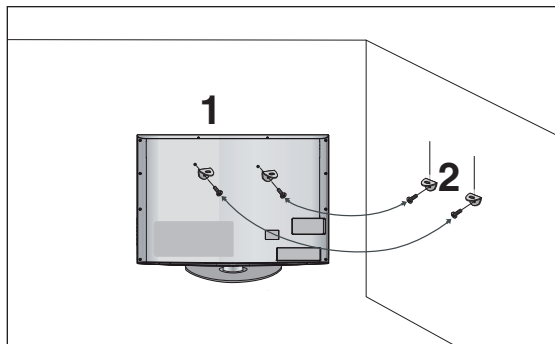
WARNING

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

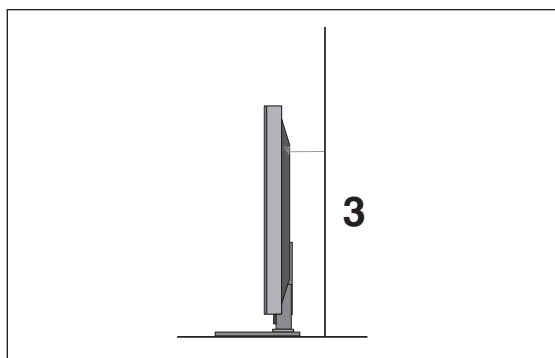
PREPARATION

CAREFUL INSTALLATION ADVICE

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



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



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

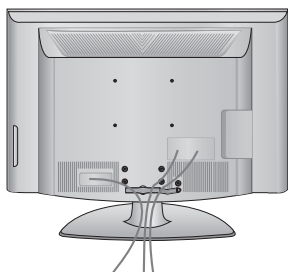
NOTE

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

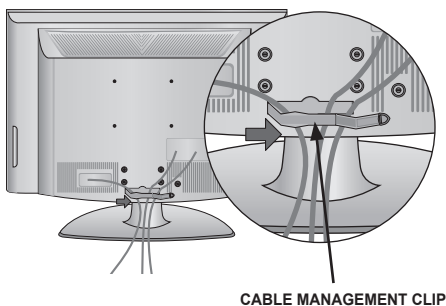
BACK COVER FOR WIRE ARRANGEMENT

- Image shown may differ from your TV.

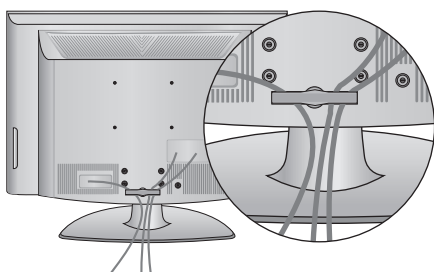
- 1 Connect the cables as necessary.
To connect additional equipment, see the **External Equipment Setup** section.



- 2 Install the **CABLE MANAGEMENT CLIP** as shown.



- 3 Fit the **CABLE MANAGEMENT CLIP** as shown.



NOTE

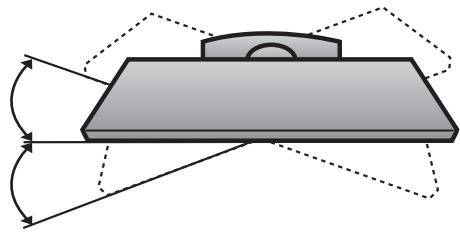
- Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

PREPARATION

SWIVEL STAND

- Image shown may differ from your TV.

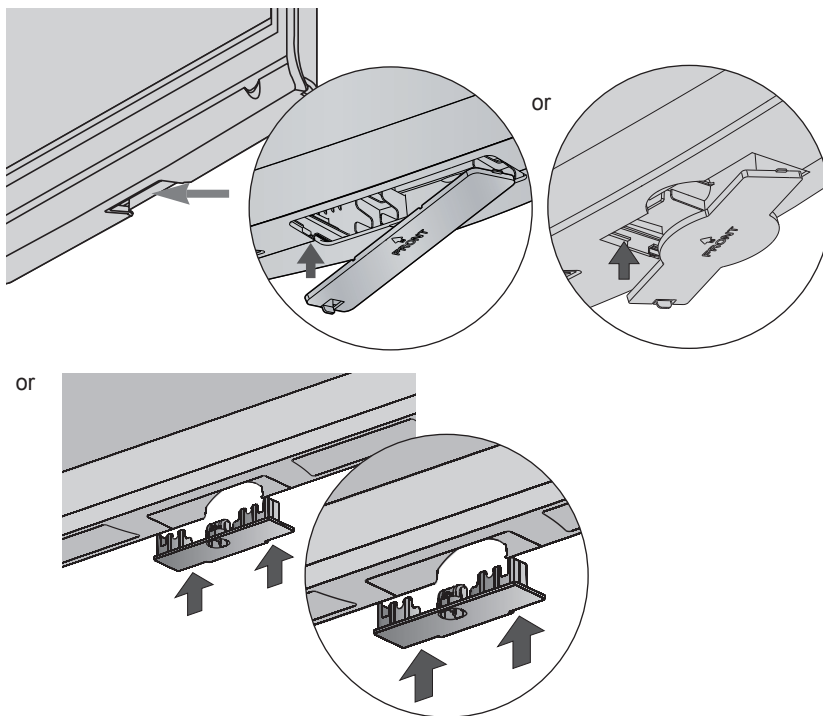
After installing the TV, you can adjust the TV manually to the left or right direction by 20 degrees to suit your viewing position.



NOT USING THE DESK-TYPE STAND

- Image shown may differ from your TV.

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



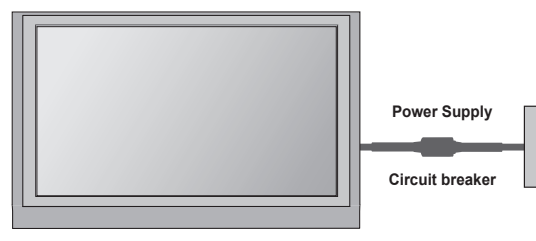
Insert the **PROTECTION COVER** into the TV until clicking sound.

- 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.

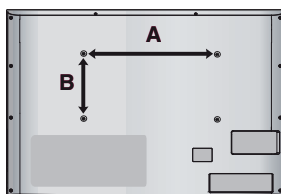
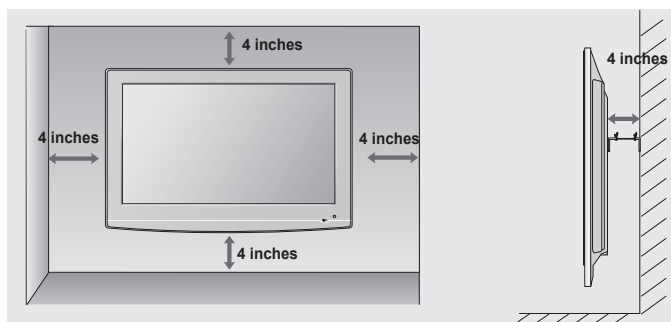


WALL MOUNT: HORIZONTAL INSTALLATION

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

NOTE

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



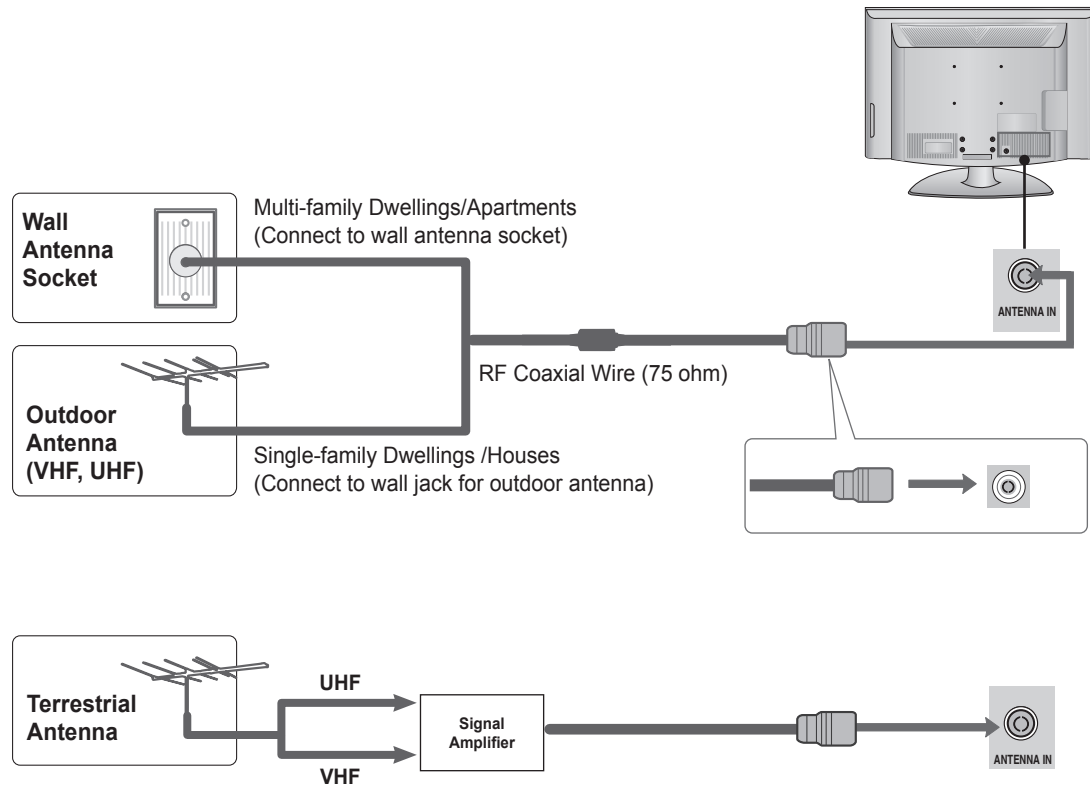
Model	VESA (A * B)	Standard Screw	Quantity
32LF73**, 32LH33**	200 * 100	M4	4
42LF73**, 42LH33**	200 * 200	M6	4

PREPARATION

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

ANTENNA CONNECTION

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



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

EXTERNAL EQUIPMENT SETUP

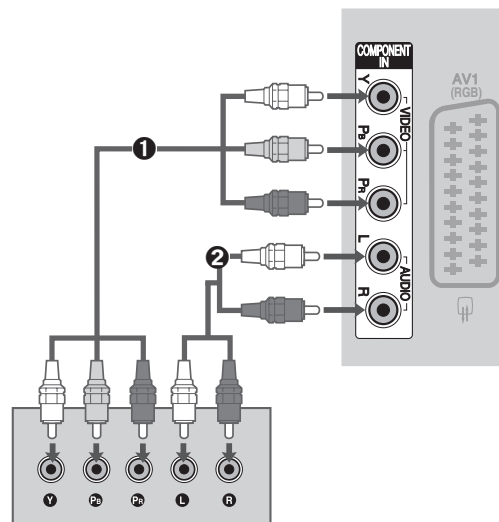
- To avoid damaging any equipment, never plug in any power cord until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for 32LF73** model.
- Image shown may differ from your TV.

HD RECEIVER SETUP

- 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.

Connecting with a Component Cable

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



EXTERNAL EQUIPMENT SETUP

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

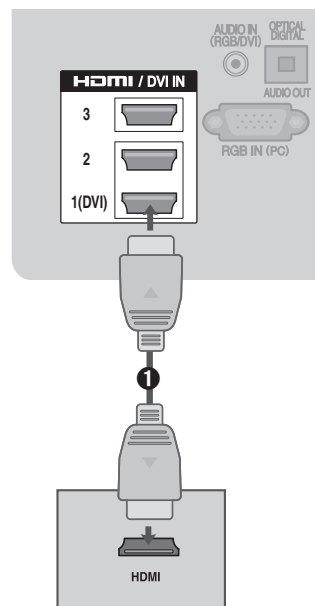
EXTERNAL EQUIPMENT SETUP

Connecting with an HDMI Cable

- 1 Connect the digital set-top box to **HDMI/DVI IN 1**, **HDMI IN 2**, **HDMI IN 3** or **HDMI IN 4** (Only 32/42LF73**) jack on the TV.
- 2 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 3 Select **HDMI1**, **HDMI2**, **HDMI3** or **HDMI4** (Only 32/42LF73**) input source using the **INPUT** button on the remote control.

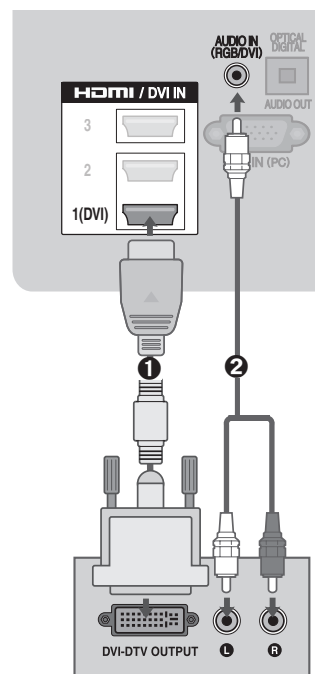
NOTE

- Check that your HDMI cable is version 1.3 or higher. If the HDMI cables don't support HDMI version 1.3, flickering or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.



Connecting with an HDMI to DVI Cable

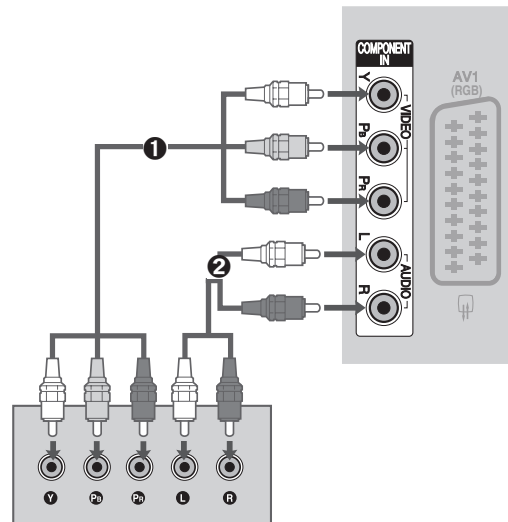
- 1 Connect the digital set-top box to **HDMI/DVI IN 1** jack on the TV.
- 2 Connect the audio output of the digital set-top box to the **AUDIO IN (RGB/DVI)** jack on the TV.
- 3 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 4 Select **HDMI 1** input source using the **INPUT** button on the remote control.



DVD SETUP

Connecting with a Component Cable

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



Component Input ports

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

Component ports on the TV	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P _b	P _r

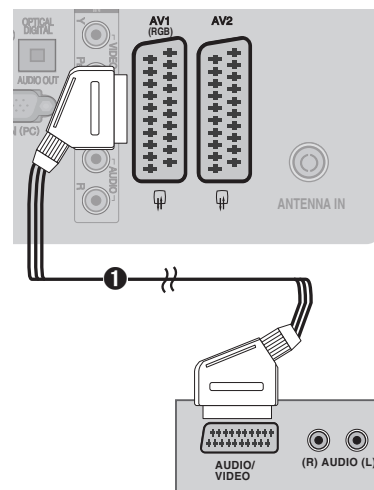
EXTERNAL EQUIPMENT SETUP

Connecting with a Euro Scart Cable

- 1 Connect the Euro scart socket of the DVD to the **AV1** Euro scart socket on the TV.
- 2 Turn on the DVD player, insert a DVD.
- 3 Select **AV1** input source using the **INPUT** button on the remote control. If connected to **AV2** Euro scart socket, select **AV2** input source.
- 4 Refer to the DVD player's manual for operating instructions.

NOTE

- ▶ Any Euro scart cable used must be signal shielded.
- ▶ Copy-protected programmes will not be output on the EURO scart sockets for legal reasons. Even if it was output, the video signals fed through the EURO scart sockets will be not recorded by copyright protection systems.



Scart Output

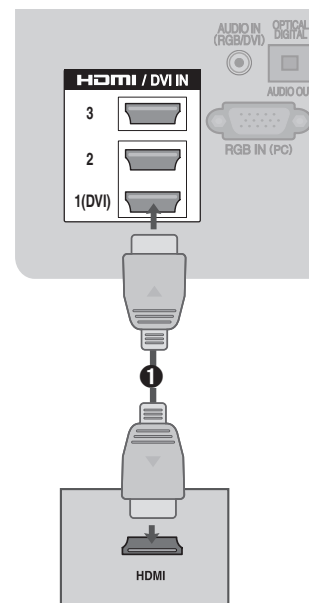
Main Input		AV1 (SCART1 Output)	AV2 (SCART2 Output)
Digital TV		Mute	Digital TV
Analogue TV		Mute (Analogue TV if the TV mode you last watched is Analogue mode.)	Analogue TV
AV1 (SCART1)	CVBS		AV1 (CVBS)
	RGB		
AV2 (SCART2)	CVBS		AV2 (CVBS)
Component			Mute
RGB			Mute
AV3(CVBS)			AV3 (CVBS)
HDMI1			Mute
HDMI2			Mute
HDMI3			Mute
HDMI4 (Only 32/42LF73**)			Mute

Connecting the HDMI Cable

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1**, **HDMI IN 2**, **HDMI IN 3** or **HDMI IN 4** (Only 32/42LF73**) jack on the TV.
- 2 Select **HDMI1**, **HDMI2**, **HDMI3** or **HDMI4** (Only 32/42LF73**) input source using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.

NOTE

- ▶ The TV can receive video and audio signals simultaneously when using a HDMI cable.
- ▶ If the DVD does not support Auto HDMI, you must set the output resolution appropriately.
- ▶ Check that your HDMI cable is version 1.3 or higher. If the HDMI cables don't support HDMI version 1.3, flickering or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.

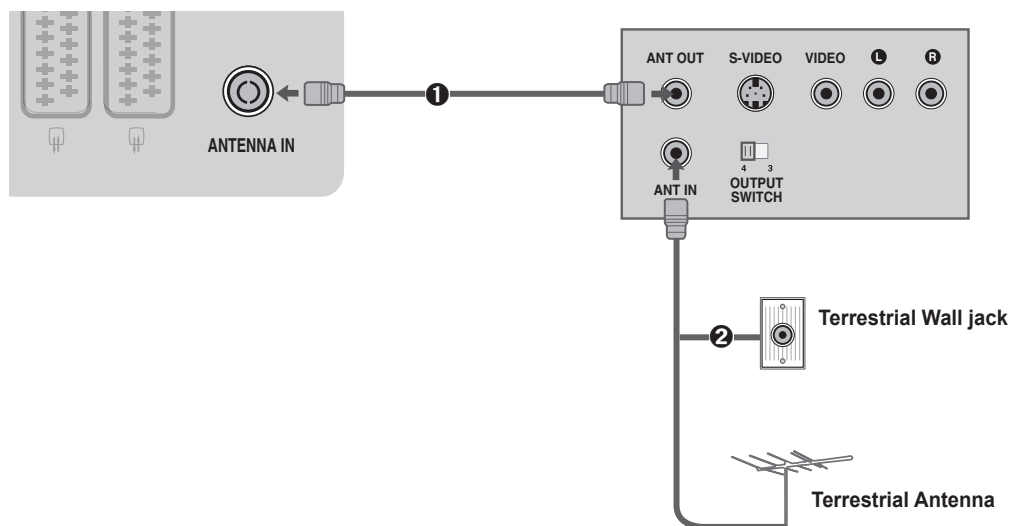


VCR SETUP

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

Connecting with a Terrestrial RF Cable

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



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

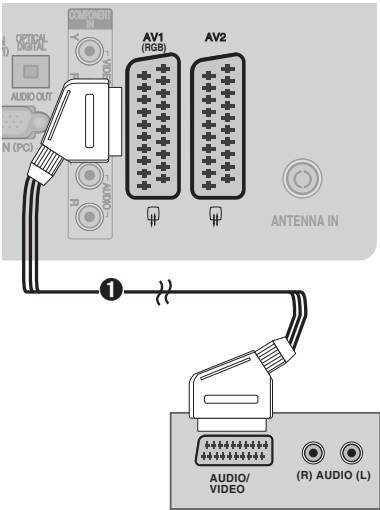
EXTERNAL EQUIPMENT SETUP

Connecting with a Euro Scart Cable

- 1 Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the TV.
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source using the **INPUT** button on the remote control.
- 4 If connected to **AV2** Euro scart socket, select **AV2** input source.

NOTE

- ▶ Any Euro Scart cable used must be signal shielded.
- ▶ Copy-protected programmes will not be output on the EURO scart sockets for legal reasons. Even if it was output, the video signals fed through the EURO scart sockets will be not recorded by copyright protection systems.



Scart Output

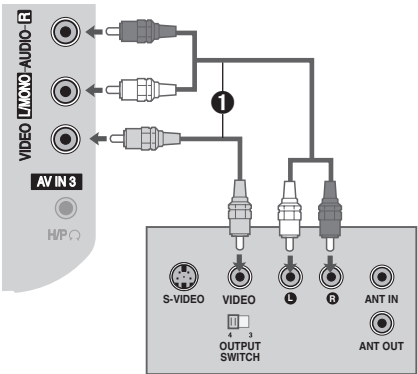
Main Input	AV1 (SCART1 Output)	AV2 (SCART2 Output)
Digital TV	Mute	Digital TV
Analogue TV		Analogue TV
AV1 (SCART1) CVBS		AV1 (CVBS)
AV1 (SCART1) RGB		
AV2 (SCART2) CVBS		AV2 (CVBS)
Component		
RGB	Mute	Mute
AV3(CVBS)	(Analogue TV if the TV mode you last watched is Analogue mode.)	AV3 (CVBS)
HDMI1		Mute
HDMI2		Mute
HDMI3		Mute
HDMI4 (Only 32/42LF73**)		Mute

Connecting with a RCA Cable

- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV3** input source using the **INPUT** button on the remote control.

NOTE

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



INSERTION OF CI MODULE

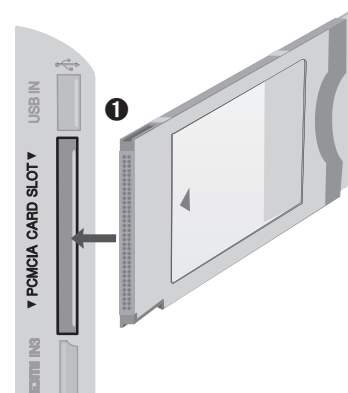
- To view the encrypted (pay) services in digital TV mode.
- This feature is not available in all countries.

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

For further information, see p.51.

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.



DIGITAL AUDIO OUT SETUP

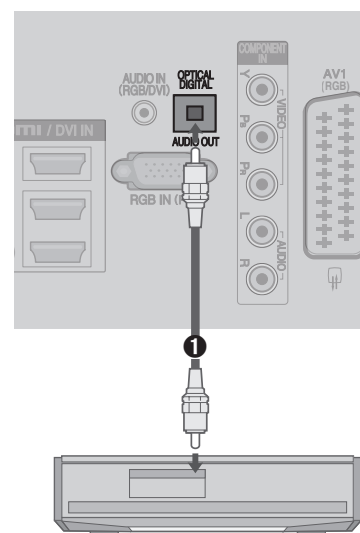
Sending the TV's digital audio signal to external audio equipment via the Digital Audio Output (Optical) port.

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).

- 1 Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2 Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.
- 3 Set the "TV Speaker option - Off" in the AUDIO menu.(▶ p.85). Refer to the external audio equipment instruction manual for operation.

CAUTION

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



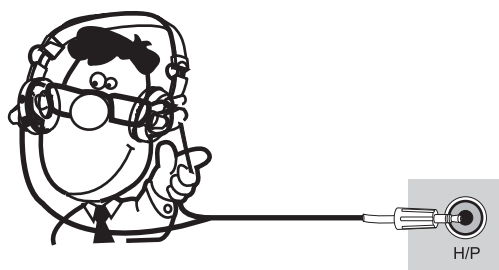
HEADPHONE SETUP

You can listen the sound through the headphone.

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

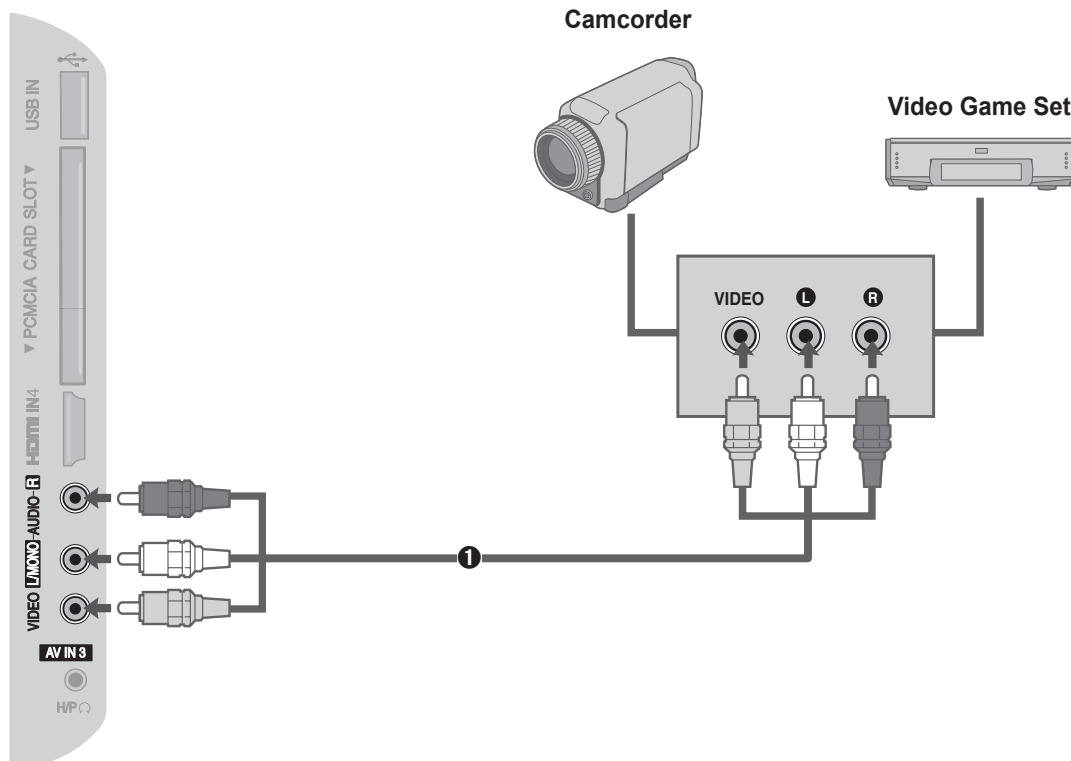
NOTE

- ▶ 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.



EXTERNAL EQUIPMENT SETUP

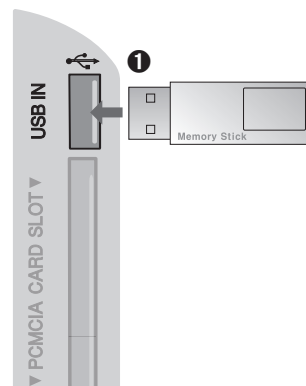
OTHER A/V SOURCE SETUP



- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours. (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Select **AV3** input source using the **INPUT** button on the remote control.
- 3 Operate the corresponding external equipment. (Refer to external equipment operating guide.)

USB SETUP (ONLY 32/42LF73**)

- 1 Connect the USB device to the **USB IN** jack on the side of the TV.
- 2 After connecting the **USB IN** jack, you use the **USB** function. (► p.59)

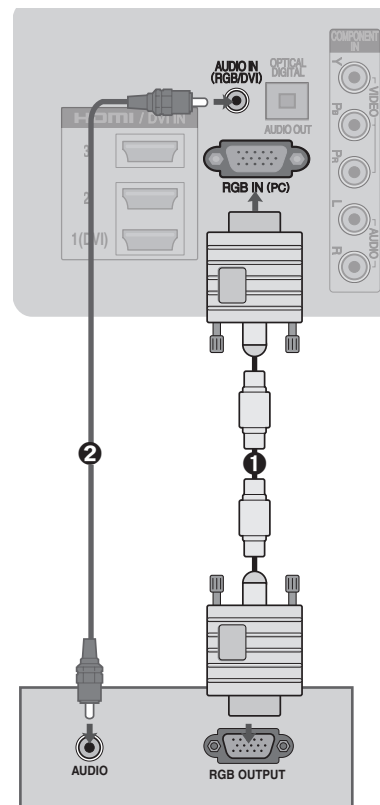


PC SETUP

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

Connecting with a D-sub 15 pin Cable

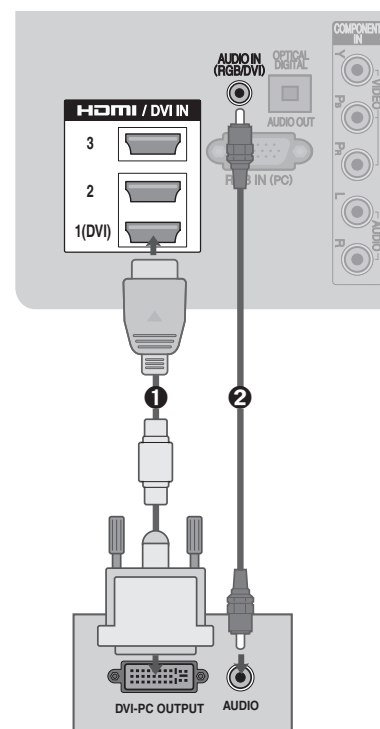
- 1 Connect the RGB output of the PC to the **RGB IN (PC)** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.
- 3 Turn on the PC and the TV.
- 4 Select **RGB** input source using the **INPUT** button on the remote control.



EXTERNAL EQUIPMENT SETUP

Connecting with an HDMI to DVI Cable

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



EXTERNAL EQUIPMENT SETUP

Supported Display Resolution

RGB(PC), HDMI1(DVI) -PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.468	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1280 x 768	47.78	59.87
1360 x 768	47.72	59.80
1280 x 1024	63.98	60.02
1400 x 1050	65.317	59.979
1920 x 1080	66.587	59.937

HDMI1, HDMI2, HDMI3, HDMI4 (Only 32/42LF73**) -DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640 x 480	31.649 31.469	59.9 60
720 x 480	31.47 31.50	59.94 60
720 x 576	31.25	50.00
1280 x 720	37.50 44.96 45.00	50.00 59.94 60
1920 x 1080	28.125 33.72 33.75 27.00 33.750 56.25 67.433 67.50	50.00 59.94 60 24.00 30 50.00 59.94 60

Component mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	15.73 15.75 31.47 31.50	59.9 60 59.9 60
720 x 576	15.6 31.25	50 50
1280 x 720	37.50 44.96 45.00	50.00 59.94 60.00
1920 x 1080	33.72 33.75 28.125 56.25 67.433 67.500	59.94 60.00 50.00 50.00 59.94 60.00

NOTE :

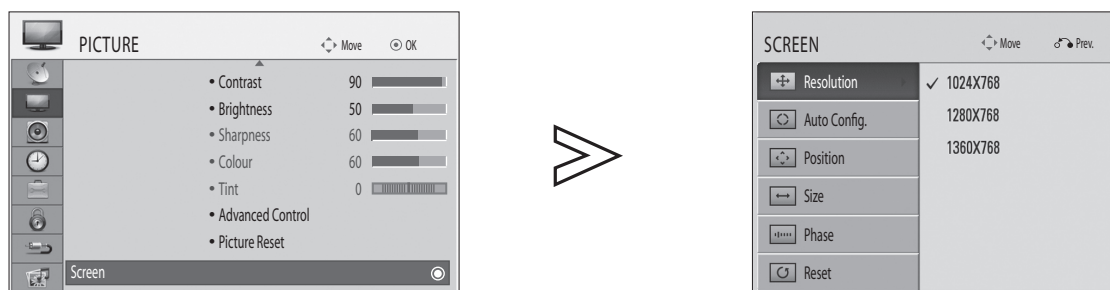
- ▶ Avoid keeping a fixed image on the TV's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ▶ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ▶ The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ▶ We recommend using 1920x1080, 60Hz 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 IN(PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI/DVI IN 1(DVI) port on the TV.
- ▶ Connect the audio cable from the PC to the AUDIO IN (RGB/DVI) 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 IN or HDMI/DVI IN 1(DVI) to display the PC output on the TV.
- ▶ If the graphic card on the PC does output analogue and digital RGB simultaneously, switch 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 a HDMI to DVI cable.
- ▶ If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

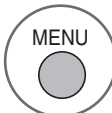
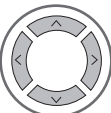
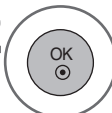
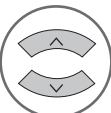
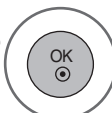
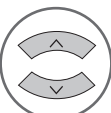

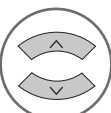
EXTERNAL EQUIPMENT SETUP

Screen Setup for PC mode (In RGB mode only)

Selecting Resolution

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

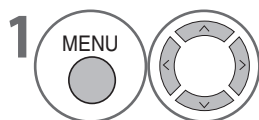
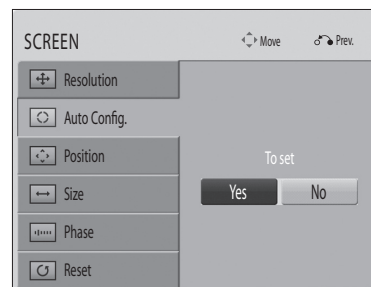
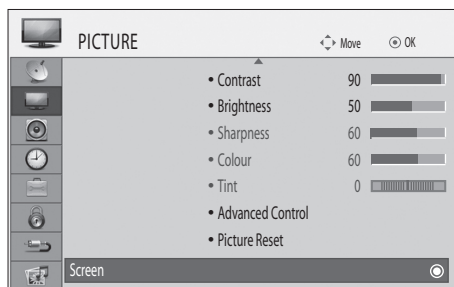


- 1**   Select **PICTURE**.
- 2**   Select **Screen**.
- 3**   Select **Resolution**.
- 4**   Select the desired resolution.

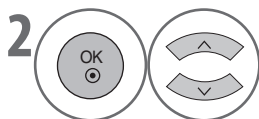
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

Auto Configure

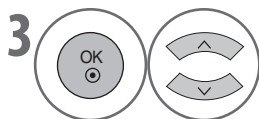
Automatically optimizes the display. This is recommended for the first time connecting to a PC.



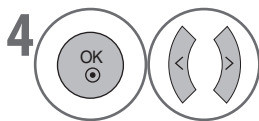
Select **PICTURE**.



Select **Screen**.



Select **Auto Config.**



Select **Yes**.



Run **Auto Config.**

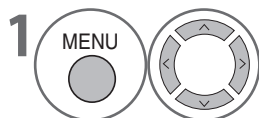
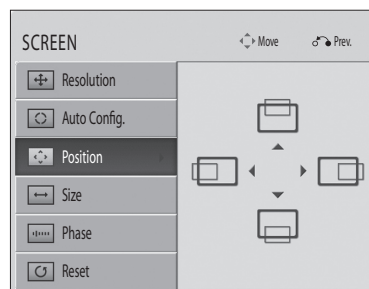
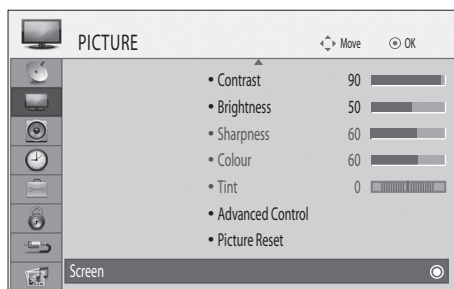
• If the picture is not clear after auto configuration, adjust the position, size or phase of picture manually.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

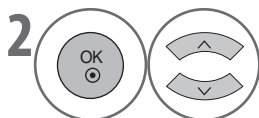
EXTERNAL EQUIPMENT SETUP

Adjustment for screen Position, Size, Phase

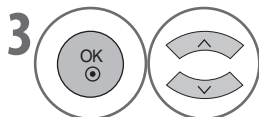
If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.



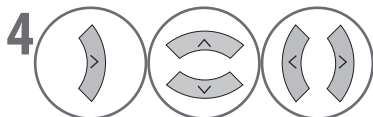
Select **PICTURE**.



Select **Screen**.



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

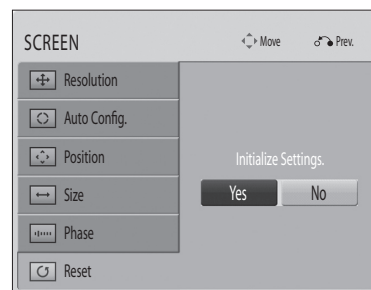
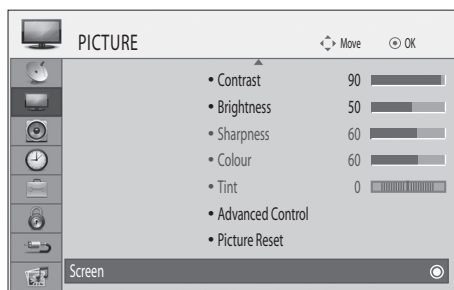


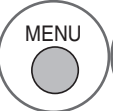
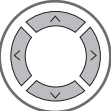
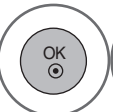
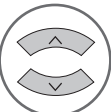

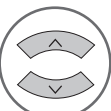

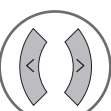

Make appropriate adjustments.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

Screen Reset

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



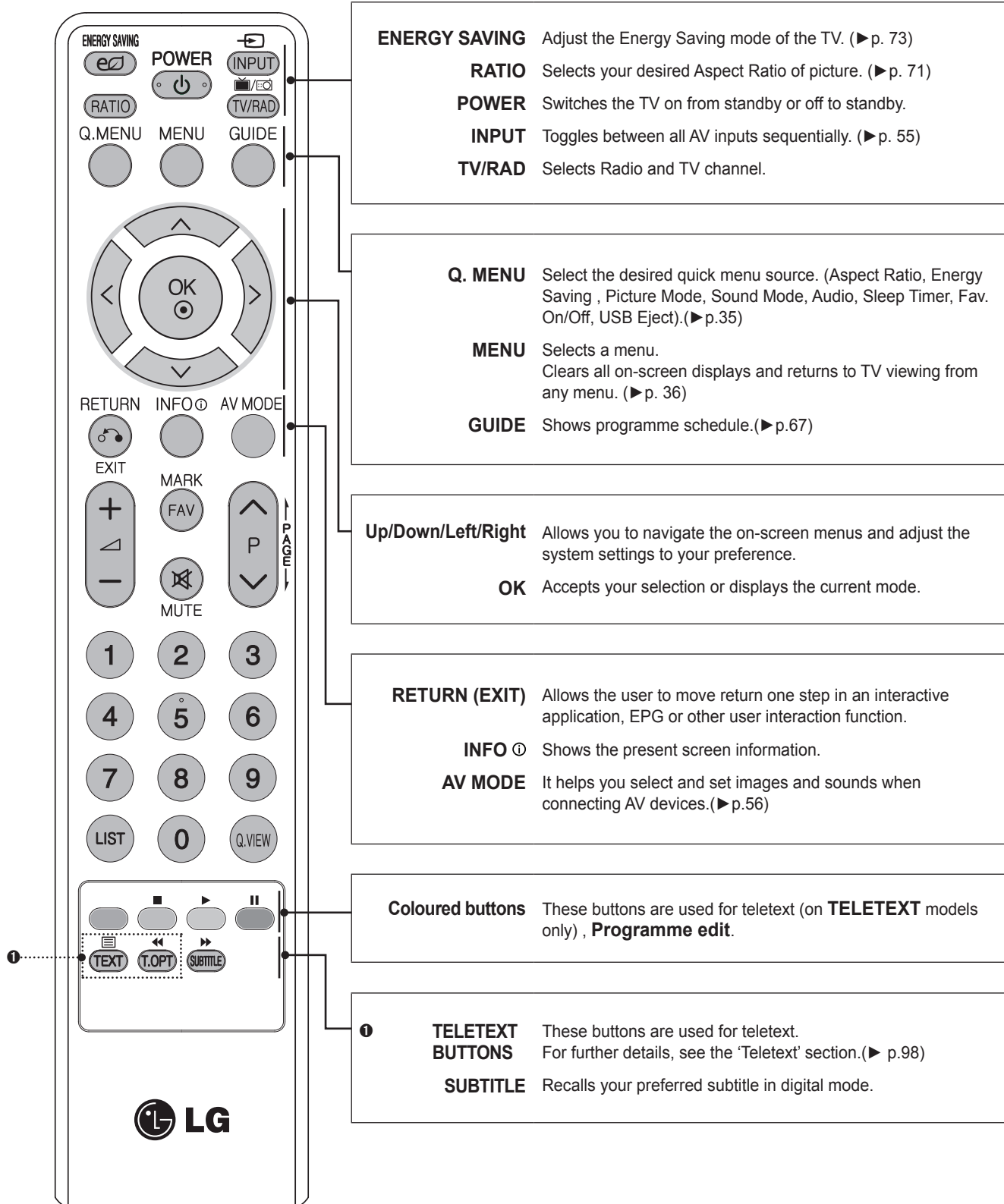
- 1   Select **PICTURE**.
- 2   Select **Screen**.
- 3   Select **Reset**.
- 4   Select **Yes**.
- 5  Run **Reset**.

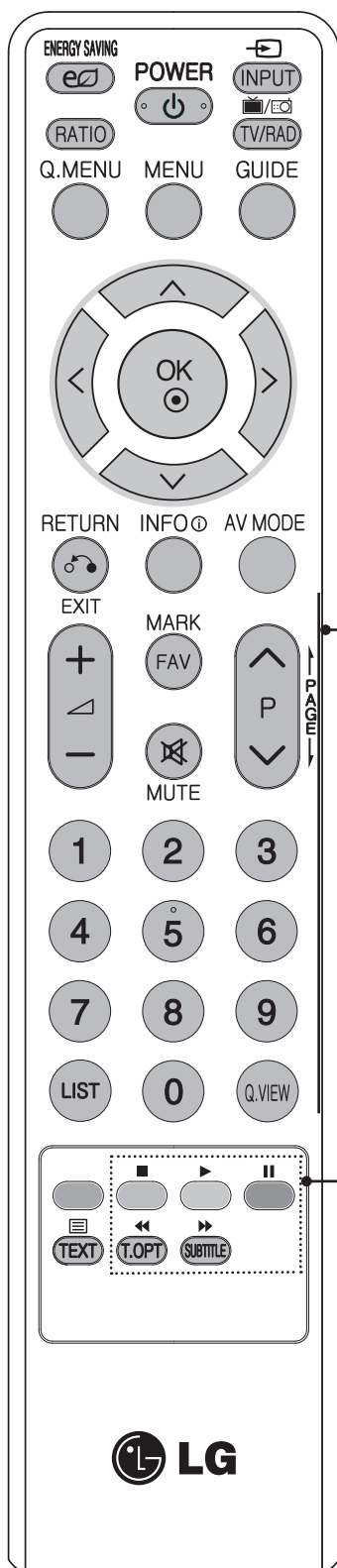
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS (ONLY 32/42LF73**)

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





VOLUME UP/DOWN Adjusts the volume.

MARK Check and un-check programmes.

FAV Displays the favourite programme list.

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

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

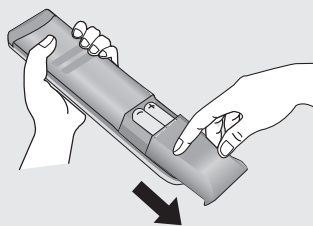
0~9 number buttons Selects a programme.
Selects numbered items in a menu.

LIST Displays the programme table. (► p. 54)

Q.VIEW Returns to the previously viewed programme.

USB Menu control buttons Controls USB menu (Photo List and Music List)

Installing Batteries

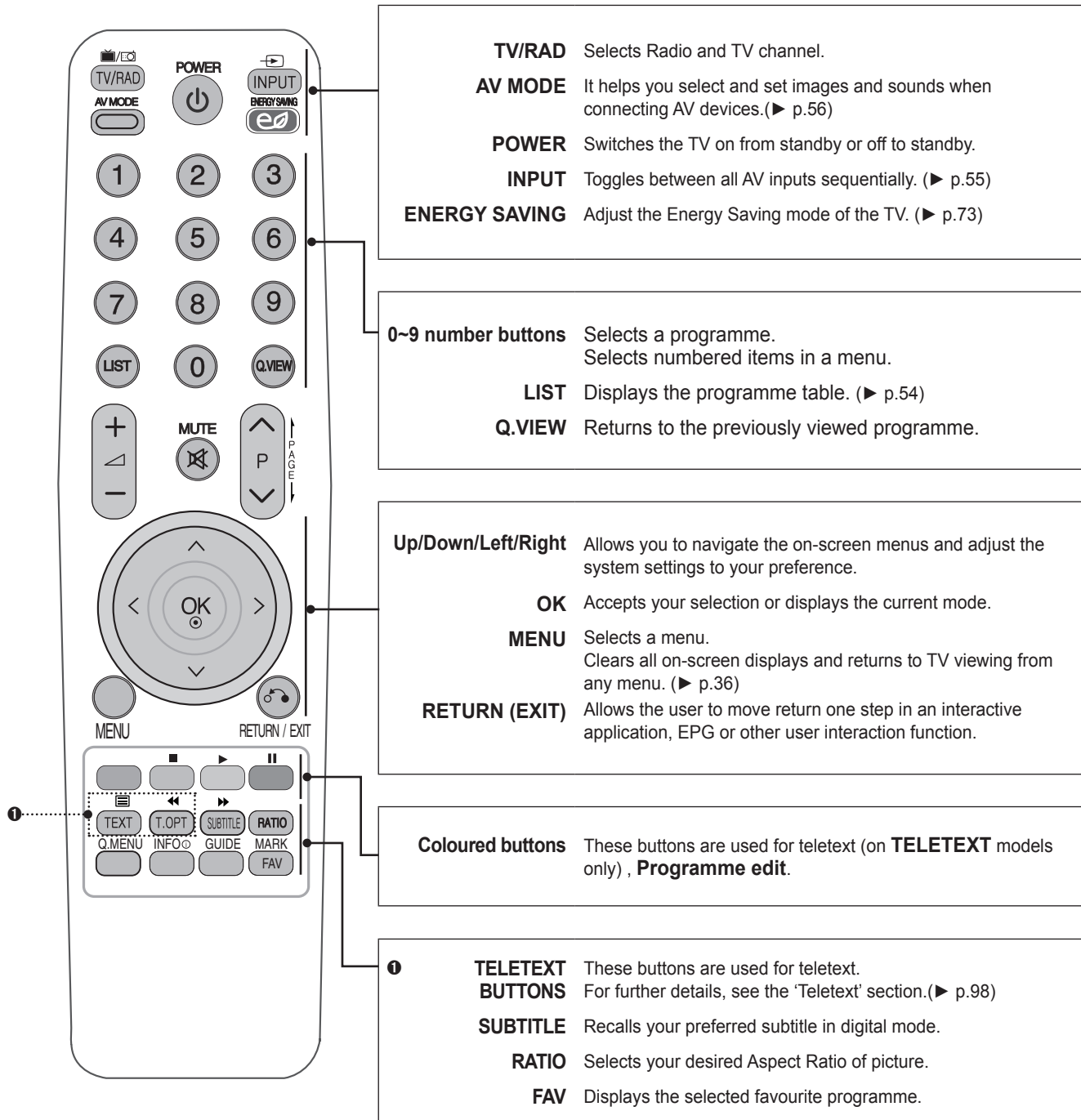


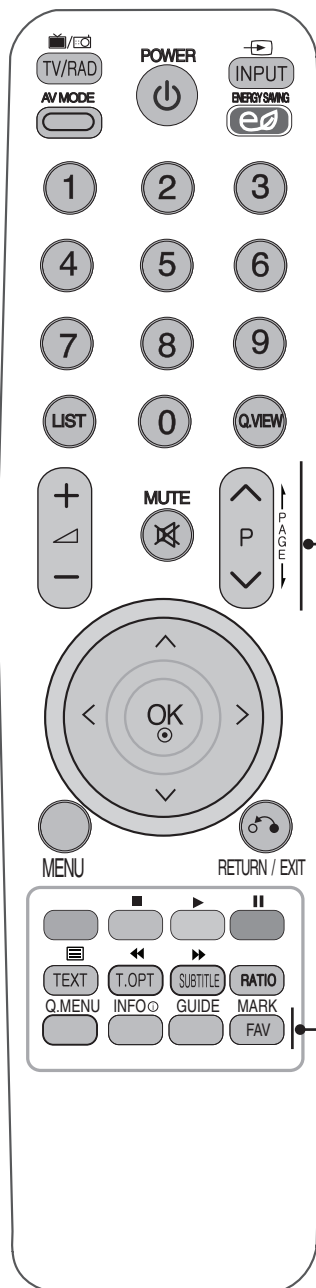
- Open the battery compartment cover on the rear and install the batteries paying attention to the correct polarity.
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS (ONLY 32/42LH33**)

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





VOLUME UP/ DOWN Adjusts the volume.

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

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

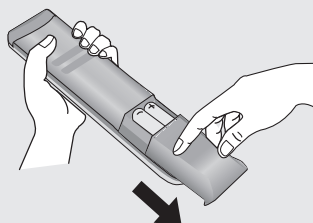
Q. MENU Select the desired quick menu source. (Aspect Ratio, Energy Saving, Picture Mode, Sound Mode, Audio, Sleep Timer, Fav. On/Off, USB Eject). (► p.35)

INFO ⓘ Shows the present screen information.

GUIDE Shows programme schedule. (► p.67)

MARK Check and un-check programmes.

Installing Batteries



- Open the battery compartment cover on the rear and install the batteries paying attention to the correct polarity.
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

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 pushing it firmly home and check the main power on the TV.
At this stage, the TV switches to standby mode. (The power indicator on the TV illuminates red.)
- ② In standby mode to turn TV on, press the **POWER**(Only 32/42LH33**), **INPUT** or **P \wedge V** (Programme Up/Down) button on the TV or press the **POWER**, **INPUT**, **P \wedge V** or **NUMBER** button on the remote control and the TV will switch on.

Initial Setting

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

Note:

- a. If the initial setting menu disappears due to timeout without fully completing the channel searching procedure, you may not have all of the channels available. In this case, you can use the Setup > Auto Tuning to search for more channels.
- b. Press the **RETURN** 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. "Home Use" mode is the optimal setting for home environments, and is the TV's default mode.
- e. "Store Demo" mode initializes image quality to the optimal setting for store environments automatically after a certain period of time.
- f. The mode (Home Use, Store Demo) can be changed by executing Mode Setting in the OPTION menu.

PROGRAMME SELECTION









- ① Press the **P \wedge V** (Programme Up/Down) or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

- ① Press the \triangle + or - button to adjust the volume.
If you wish to switch the sound off, press the **MUTE** button.
You can cancel this function by pressing the **MUTE**, \triangle + , - or **AV MODE** button.

QUICK MENU

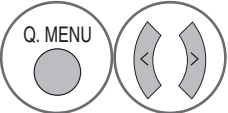
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- **Aspect Ratio** : Selects your desired picture format.
For Zoom Setting, select 14:9, Zoom and Cinema Zoom in the Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- **Energy Saving** : Selects your desired Energy Saving mode.
- **Picture Mode** : Selects your desired Picture Mode.
- **Sound Mode** : It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- **Audio** : Selects the sound output.
- **Sleep Timer** : Sets the sleep timer.
- **Fav. On/Off** : Add the programme to the favourite list.
- **USB Eject** : Select "Eject" in order to remove USB device.

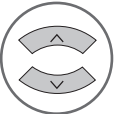


WATCHING TV / PROGRAMME CONTROL

- 1



Display each menu.
- 2



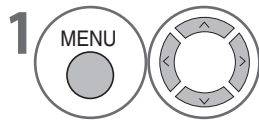
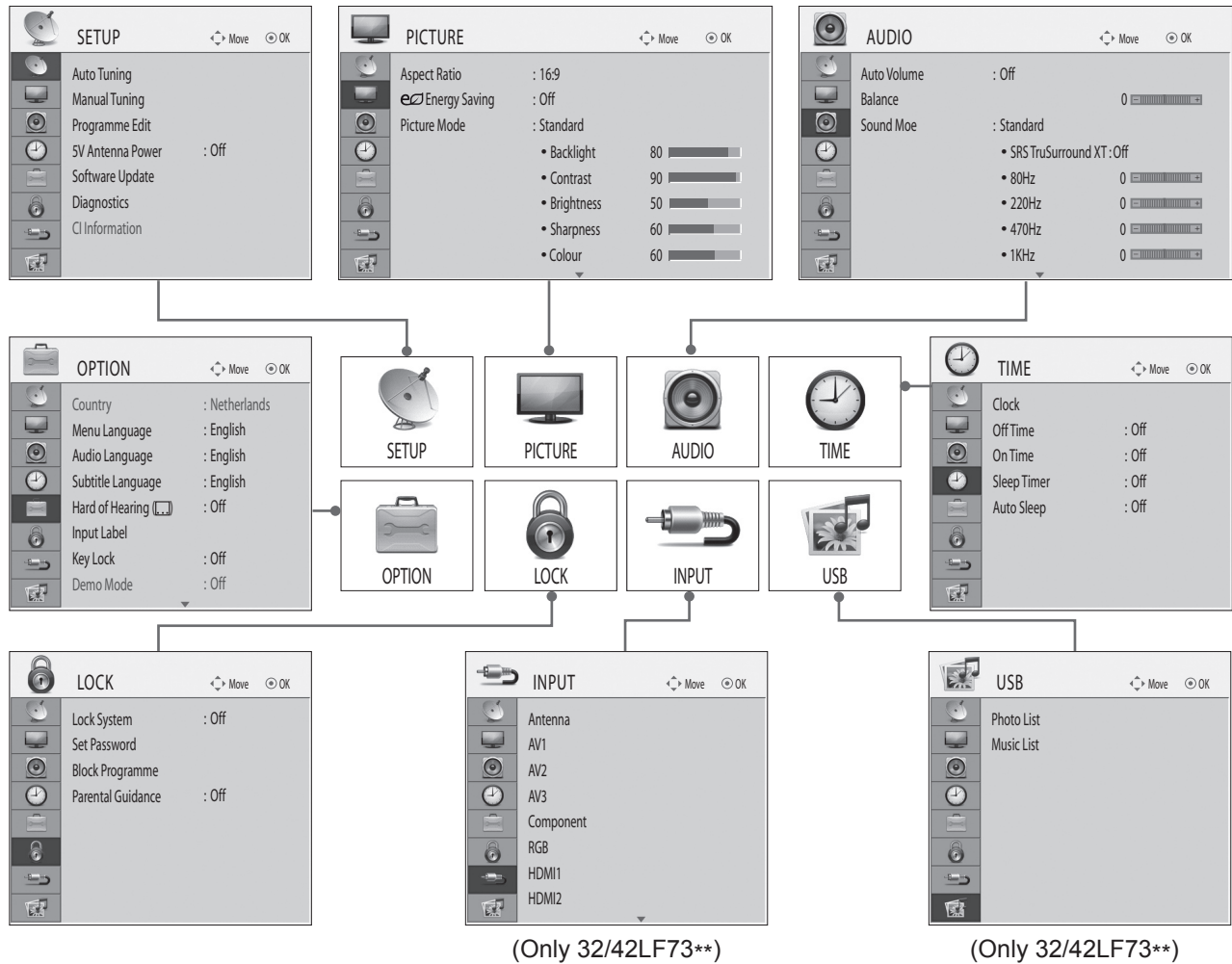
Select your desired source.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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



Press **MENU** to display the option icons, and navigate to the desired one using the Up/Down/Left/Right arrow keys.

Press **OK** to select a menu option and move to the pop up menu.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

NOTE

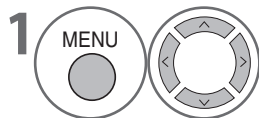
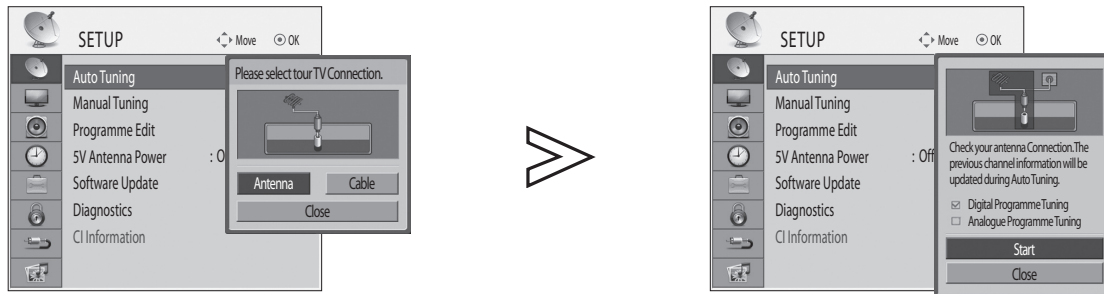
- ▶ It is possible to use **TruMotion** and **Demo Mode** in **32/42LF73**** models only.
- ▶ It is not possible to use **CI Information** in Analogue Antenna mode.

AUTO PROGRAMME TUNING

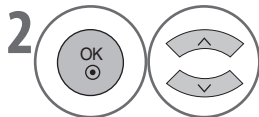
Use this to automatically find and store all available programmes.

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

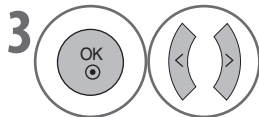
If you wish to select the **Antenna**,



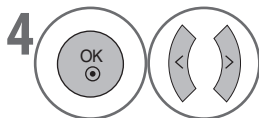
Select **SETUP**.



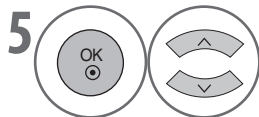
Select **Auto Tuning**.



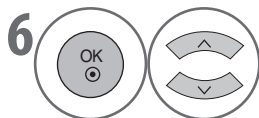
Select **Yes**.



Select **Antenna**.



Check the programme tuning option(Digital/Analogue).



Select **Start**.



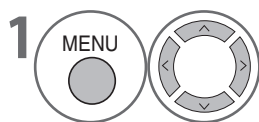
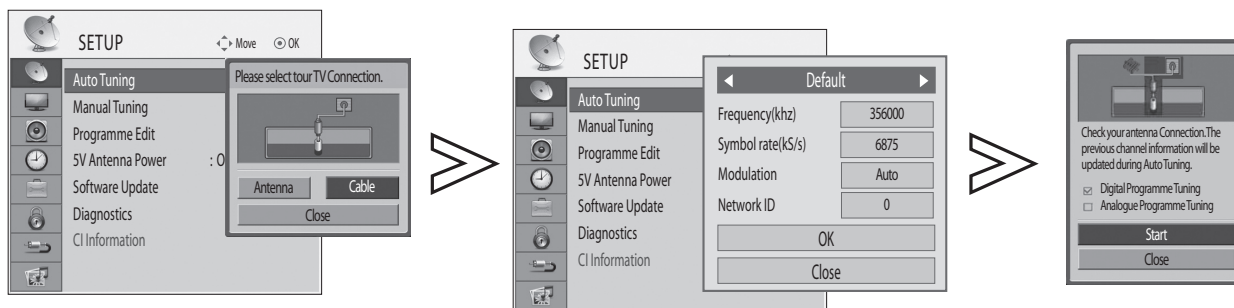
Run **Auto Tuning**.
The search results will appear.
The found programmes are automatically saved in order.

• If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

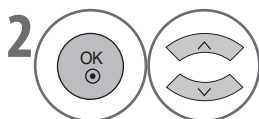
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

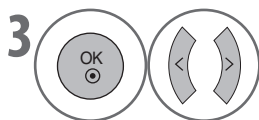
If you wish to select the **Cable**,



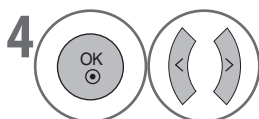
Select **SETUP**.



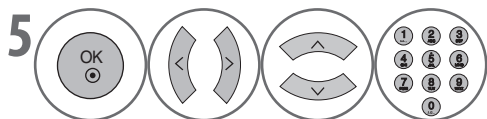
Select **Auto Tuning**.



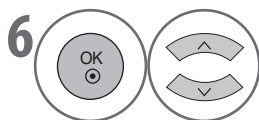
Select **Yes**.



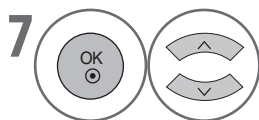
Select **Cable**.



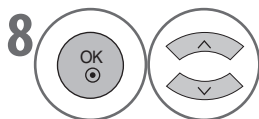
Select **Default** or **User**. (Only for German)
Make appropriate adjustments.



Select **OK**.



Check the programme tuning option(Digital/Analogue).



Select **Start**.



Run **Auto Tuning**.

The search results will appear.

The found programmes are automatically saved in order.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

The following values are needed in order to search all available programmes quickly and correctly.

The commonly used values are provided as "default".

However, for correct settings, please inquire of the cable service provider.

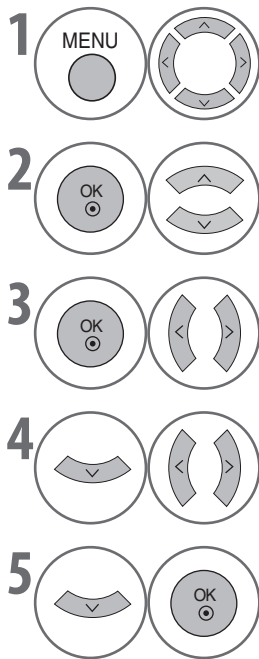
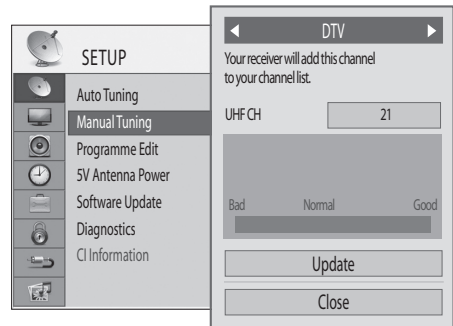
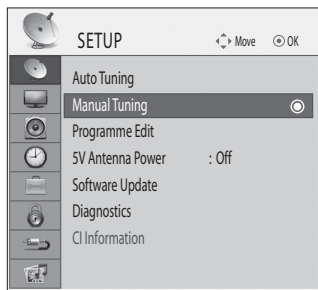
- **Frequency**: Enter a user-defined frequency range.
- **Symbol rate**: Enter a user-defined symbol rate (Symbol rate: Speed at which a device such as modem sends symbols to a channel).
- **Modulation**: Enter a user-defined modulation. (Modulation: Loading of audio or video signals onto carrier).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

WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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

If you wish to select the **Antenna**,



Select **SETUP**.

Select **Manual Tuning**.

Select **DTV**.

Select the desired channel number.

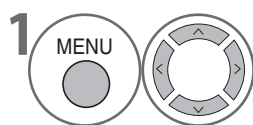
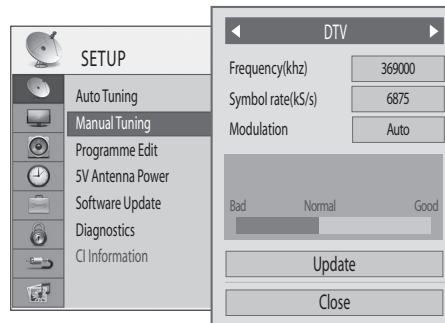
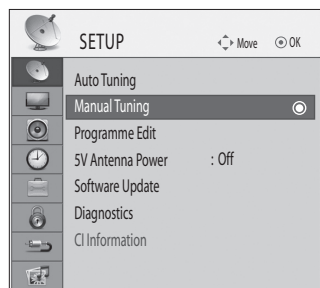
Select **Update**.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

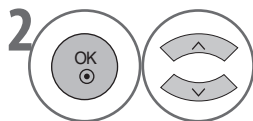
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

* This function is available only in Germany.

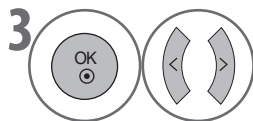
If you wish to select the **Cable**,



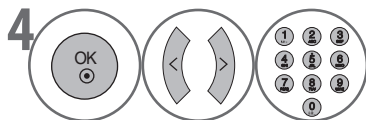
Select **SETUP**.



Select **Manual Tuning**.



Select **DTV**.



Make appropriate adjustments

• If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

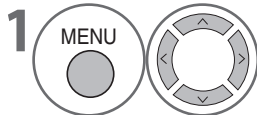
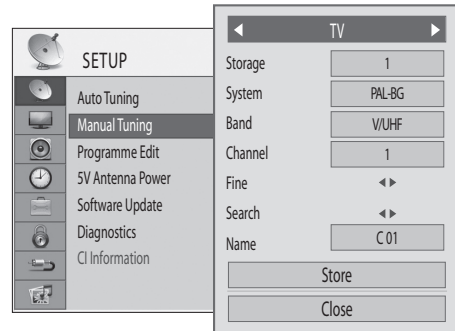
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

• Frequency, Symbol rate, and Modulation mode are needed in order to add a programme correctly in DVB cable mode. Please inquire of the cable service provider about the correct values.

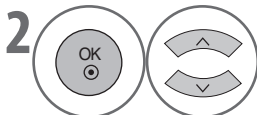
WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

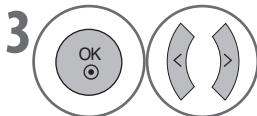
Manual Tuning lets you manually tune and arrange the stations in whatever order you desire.



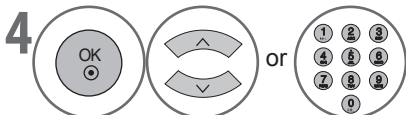
Select **SETUP**.



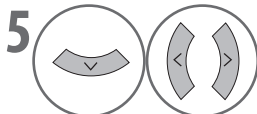
Select **Manual Tuning**.



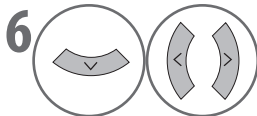
Select **TV**.



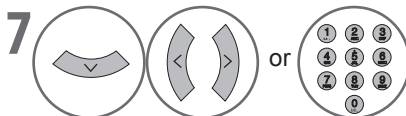
Select the desired programme number on.



Select a TV system.



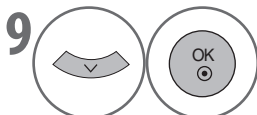
Select **V / UHF** or **Cable**.



Select the desired channel number.



Commence searching.



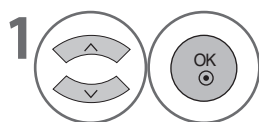
Select **Store**.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- To store another channel, repeat steps 4 to 9.

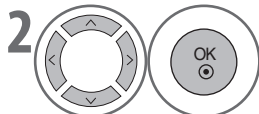
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

■ Assigning a station name

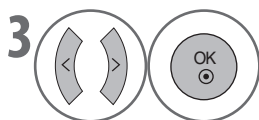
You can assign a station name with five characters to each programme number.



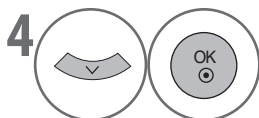
Select **Name**.



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



Select **Close**.



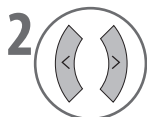
Select **Store**.

■ Fine Tuning

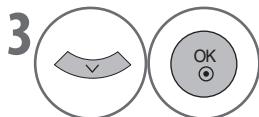
Normally fine tuning is only necessary if reception is poor.



Select **Fine**.



Fine tune for the best picture and sound.



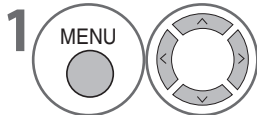
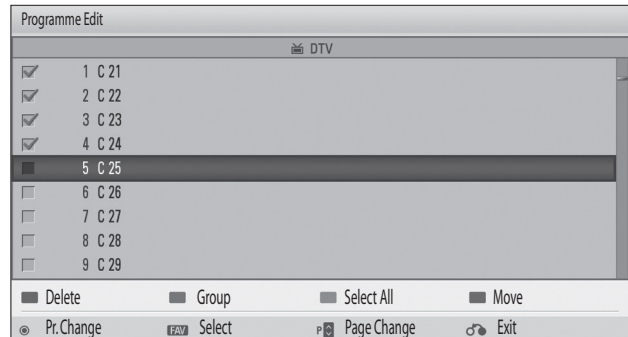
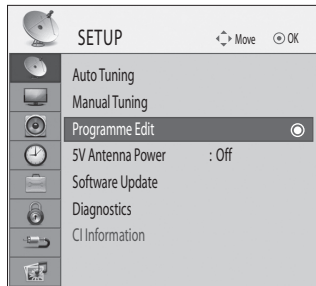
Select **Store**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

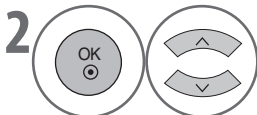
WATCHING TV / PROGRAMME CONTROL

PROGRAMME EDIT

The On Screen Displays (OSD) and function may differ based on the TV mode selected.



Select **SETUP**.



Select **Programme Edit**.



Enter the **Programme Edit**.

■ Changing a programme



Select a programme you want to watch.



Switch to the selected programme.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- The colour buttons for editing, such as **Delete**, **Group**, **Select All** and **Move**, are not available for digital cable channels.
- **Move** is available only for analogue channels.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

■ Selecting programmes



Select a programme.

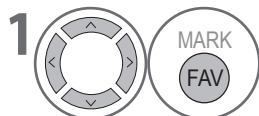


Check the selected programme.



Check the all programmes.

■ Deleting programmes



Select the programmes you want to delete.



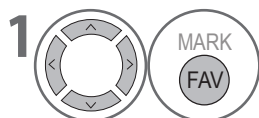
Delete the selected programmes.

■ Changing groups

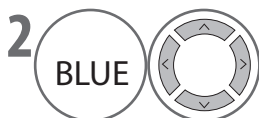


Switch between TV and Radio groups.

■ Moving programmes



Select the programme you want to move.



Shift the cursor to the position you want.



Move the selected programmes to the new location.

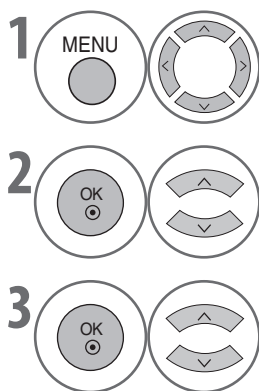
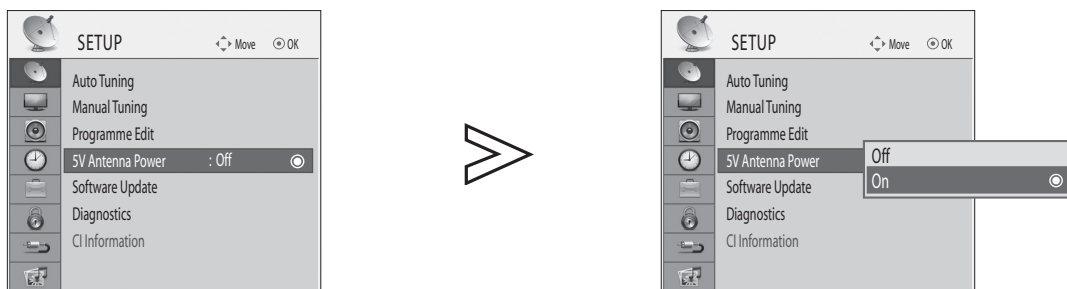
- After you finish the edit, press the **EXIT** button to save all the changes.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

5V ANTENNA POWER (IN ANTENNA MODE ONLY)

An active antenna is a portable or indoor antenna which needs power supply from the product because it does not have power cord for itself. If you connect an active antenna to the TV, you have to set the **5V Antenna Power** to **On** to supply the 5V power into antenna.



Select **SETUP**.

Select **5V Antenna Power**.

Select **On** or **Off**.

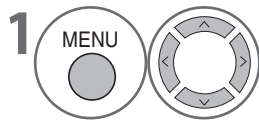
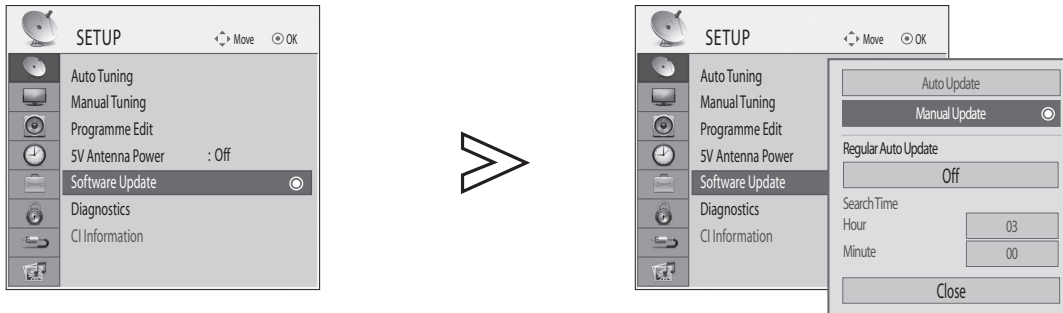
• The default value is **Off**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

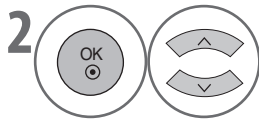
SOFTWARE UPDATE (IN DIGITAL CABLE MODE ONLY)

Software Update allows you to update the system software to maintain proper performance of the product.

The software can be downloaded through the digital broadcasting system.

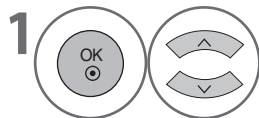


Select **SETUP**.



Select **Software Update**.

■ Manual Update



Select **Manual Update**.



Search for the new software.
The new software information will be shown.
Refer to "When detecting new software using Manual Update menu". (► p.49)

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- **Auto Update** and **Search Time** are not available for this model.

During Progress of a Software Update, please note the following:

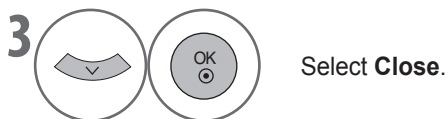
- Power to the TV must not be interrupted.
- The TV must not be switched off.
- The antenna must not be disconnected.
- After Software Update, you can confirm the updated software version in Diagnostics menu.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

■ Regular Auto Update

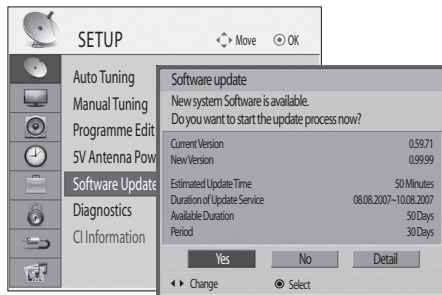
In standby mode, if the Regular Auto Update menu is "On", the TV will search the new software automatically at the search time without switching to the operation mode.



- If the new software is detected, the software update message is displayed when you turn on the TV. Select **Yes** and press the **OK** button to start the software update.
- The **Search Time** is preset to 03:00.

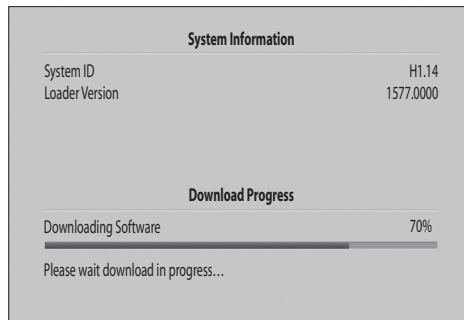
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

* When detecting new software using Manual Update menu

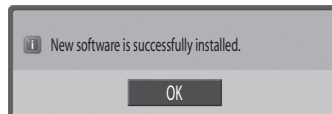


- ❶ The new software information will be shown.
- ❷ Select **Yes** using the <> button and press the **OK** button to start the software update.

- Select **No** and press the **OK** button to return to the previous menu without updating.
- **Detail** will be enabled when there is the detail information.



- ❸ The system restarts automatically and the update is started. The progress status is displayed. Please wait until it is complete.



- ❹ After the software update is complete, the system restarts. The confirm message is displayed.

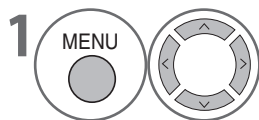
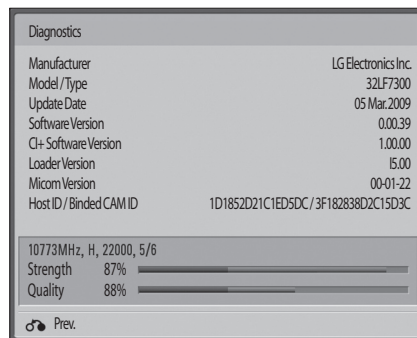
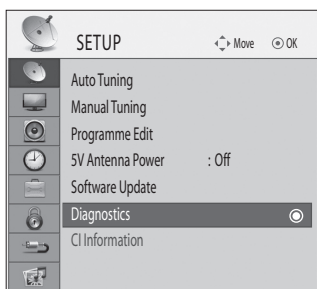
* When detecting new software by the Regular Auto Update in Standby mode

- ❶ When you turn on the TV after new software is detected, the software update message will be displayed.
- ❷ Select **Yes** and press the **OK** button to start the software update. The progress status is displayed. Please wait until it is complete.
- ❸ After the software update is complete, the confirm message will be displayed and the system restarts automatically.

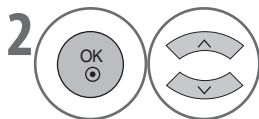
WATCHING TV / PROGRAMME CONTROL

DIAGNOSTICS

This function enables you to view system status information such as Manufacturer, Model/Type, Update Date, Software Version, CI+ Software Version, Loader Version, Micom Version, Host ID/Binded CAM ID, Strength, or Quality.



Select **SETUP**.



Select **Diagnostics**.



Display the **Diagnostics**.
The system status information will be displayed.

- Strength and quality disappear in Analogue mode.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

CI INFORMATION (IN DIGITAL MODE ONLY)

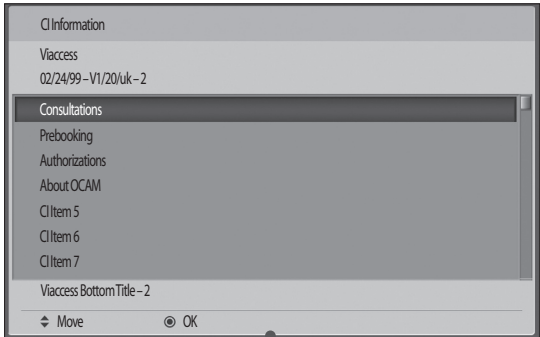
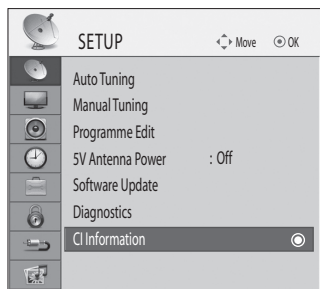
This TV supports CI+ (Common Interface Plus) which delivers enhanced functionality, such as High Definition pay TV, with its improved security.

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

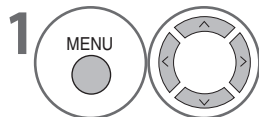
When the module is inserted into the CI slot, you can access the module menu.

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.

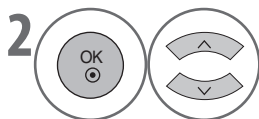
CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.



- This OSD is only for illustration and the menu options and screen format will vary according to the Digital pay services provider.
- It is possible for you to change CI (Common Interface) menu screen and service by consulting your dealer.



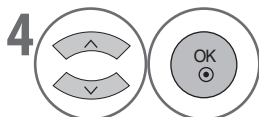
Select **SETUP**.



Select **CI Information**.



Display the **CI Information**.



Select the desired item:
Module information, smart card information, language, or software download etc.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

WATCHING TV / PROGRAMME CONTROL

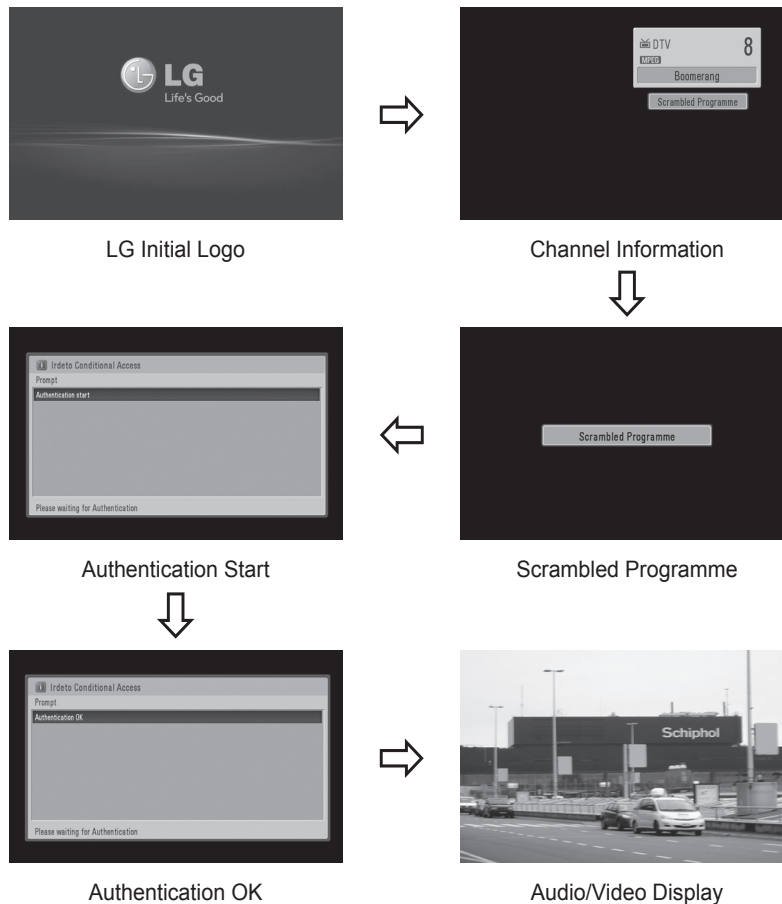
CI+CAM

1 Start-up Process

When switching on your TV set the message “Scrambled Programme” appears:

- ▶ The “Scrambled Programme” message may appear if your TV is switched on from standby to a Pay TV channel.
- ▶ The TV’s start-up process may take longer due to the enhanced security for CI+ compared to a Free-to-Air channel.
- ▶ The TV’s start-up time may vary depending on the kind of CI+ CAM (Common Interface Plus Conditional Access Module) and this is irrelevant to the functionality of the TV.

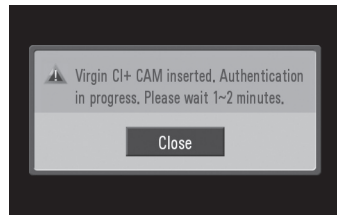
Start-up process with CI+ CAM is as follows.



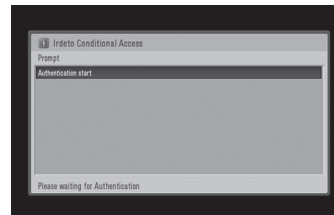
2 CI+ CAM Authentication

When CI+ CAM (Conditional Access Module) is inserted for the first time

Authentication Success



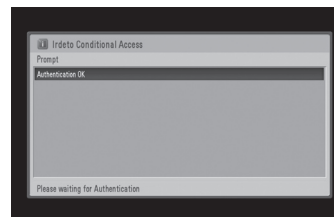
When the CI+ CAM is inserted for the first time



Authentication Start



Audio/Video Display



Authentication OK





Authentication Failed

1. When the authentication is failed, an error message appears.
2. Check whether
 - The antenna is connected correctly.
 - The channel search is complete.
 - The current channel is digital.
3. Remove the CI+ CAM and insert it again or turn the TV off and on.
The authentication will normally start.

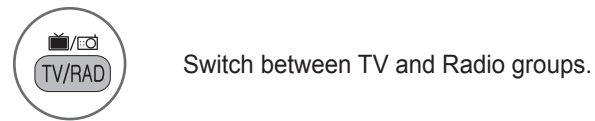
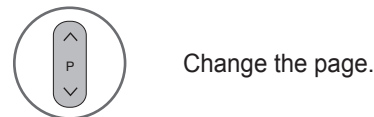
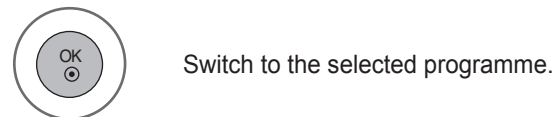
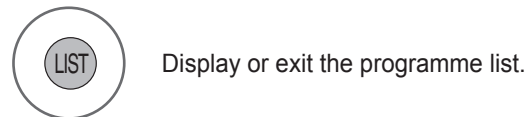
WATCHING TV / PROGRAMME CONTROL

SELECTING THE PROGRAMME LIST

Various groups of programme lists are available for quick and easy navigation.

Colour Button	Group	Programmes
	My TV	Display the list of all TV or Radio programmes.
	Favourite	Display the list of all favourite programmes.
	HDTV	Display the list of all HD TV programmes.
	Scrambled	In Netherlands, this function is not available for Cable TV mode. Display the list of programmes classified by CAS types. Display the list of programmes classified by free channels.

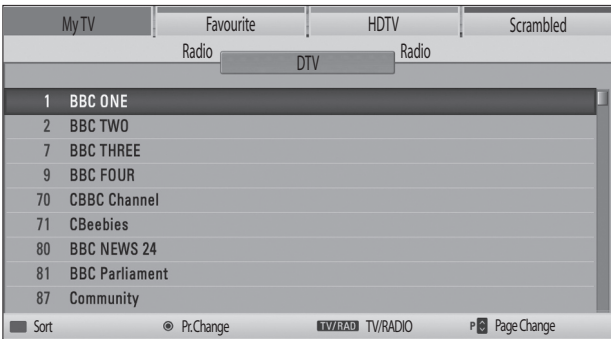
■ Displaying the List



Four groups of programme lists are available; **My TV**, **Favourite**, **HDTV** and **Scrambled**.

Press the colour buttons assigned to each group to display the programme list of each group.

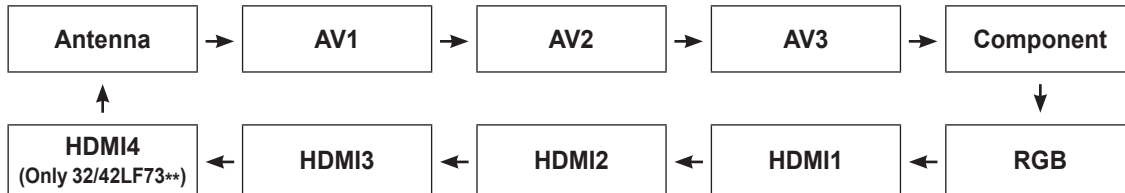
(In Scrambled group only)



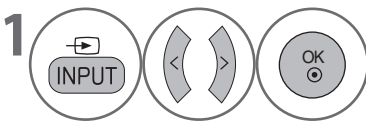
- You can directly display or exit the favourite programme list by pressing the **FAV** button.
- You can sort the programmes numerically or alphabetically in each group by pressing again the same colour button. (Except for Scrambled group)

INPUT LIST

HDMI and AV1, 2 (SCART) can be recognized by a detect pin and thus enabled only when an external device approves voltage.



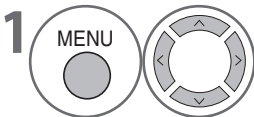
■ Using INPUT button



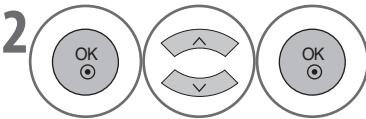
Select the input source.

• By pressing **INPUT** button repeatedly on the input list, you can move easily among the connected inputs.

■ Using MENU button



Select **INPUT**.



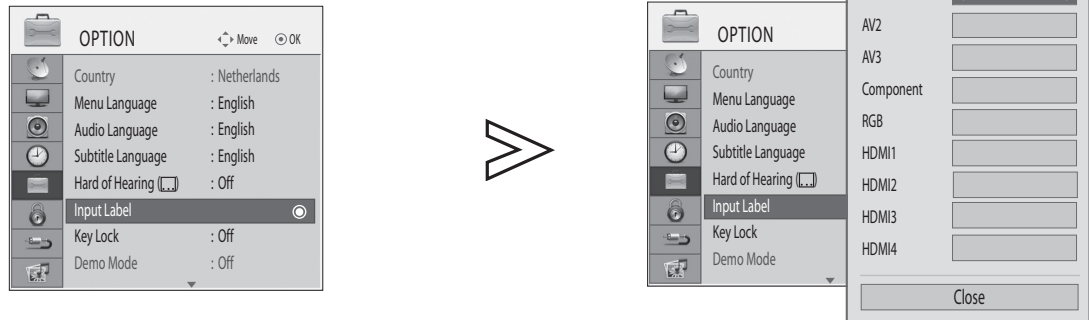
Select the input source.

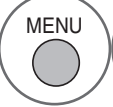






- **Antenna** or **Cable** : Select it when watching the TV/DTV. (**Cable** is available only when **Cable** is selected in **Auto Tuning**)
- **AV1, AV2, AV3** : Select it when watching the VCR or external equipment.
- **Component** : Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** : Select it when using PC depends on connector.
- **HDMI1, HDMI2, HDMI3, HDMI4 (Only 32/42LF73**)** : Select it when using DVD, PC or Digital set-top box depend on connector.

WATCHING TV / PROGRAMME CONTROL

INPUT LABEL

Selects a label for each external input source.

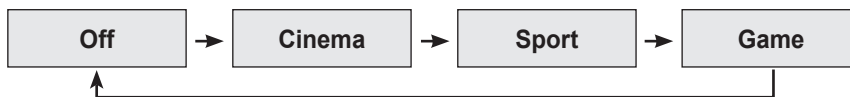


- 1   Select **OPTION**.
- 2   Select **Input Label**.
- 3   Select the source.
- 4  Select the label.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

AV MODE

By pressing **AV MODE** button repeatedly, you can select the optimal images and sounds when connecting AV devices to external input.



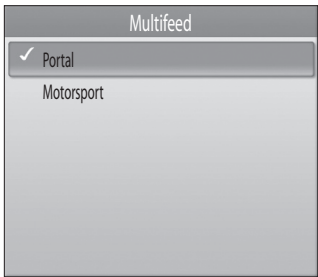
- If you select **Cinema** mode in AV mode, **Cinema** mode will be selected both for **Picture Mode** and **Sound Mode** in **PICTURE** menu and **AUDIO** menu respectively.
- If you select "**Off**" in AV mode, the picture and image which you initially set will be selected.

MULTIFEED

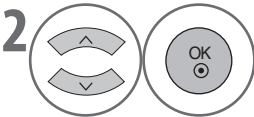
* This function is available only in Germany.

When turning to a multifeed channel, the multifeed icon will appear on the programme information banner.

You can choose from a choice of camera angles to watch the screen from different camera perspectives while watching a sports transmission. Different options are provided to view single matches or federal league games.



Display the Multifeed popup.



Select an option you want.

WATCHING TV / PROGRAMME CONTROL

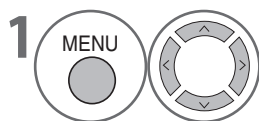
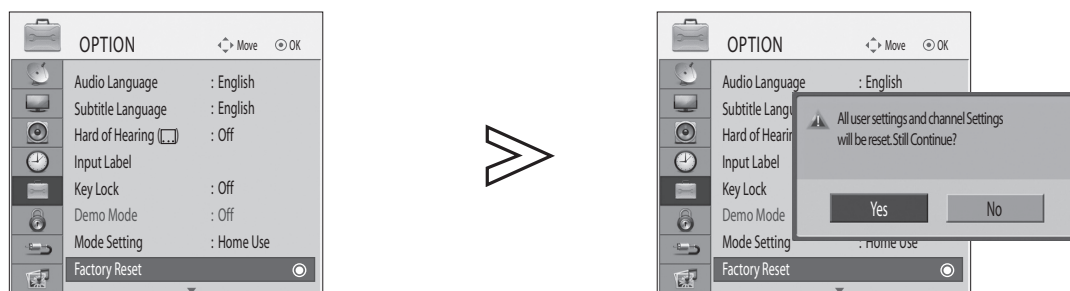
INITIALIZING (Reset to original factory settings)

This function initializes all settings.

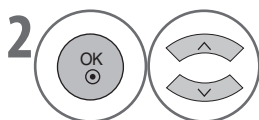
It is useful to initialize the product or when you move to other city or country.

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

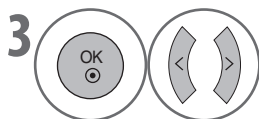
When the **Lock System** menu is “On”, the message to enter the password appears.



Select **OPTION**.



Select **Factory Reset**.



Select **Yes**.



Start **Factory Reset**.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- If you have forgotten your password, press 7777 to reset your password.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

TO USE A USB DEVICE (ONLY 32/42LF73**)

- It is not possible to use USB function in 32/42LH33** models.

When connecting a USB device

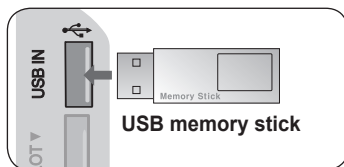
When you connect a USB device, this pop up menu is displayed, automatically.

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

When the Pop Up menu does not appear, you can select Music List or Photo List in the USB menu.

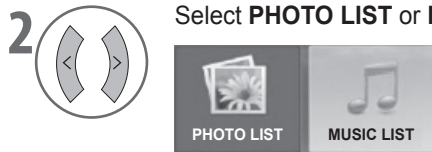
In USB device, you can not add a new folder or delete the existing folder.

- 1 Connect the USB device to the **USB IN** jacks on the side of TV.



- It doesn't support USB HDD.
- This TV Supports on JPEG and MP3.

- 2 Select **PHOTO LIST** or **MUSIC LIST**.



When removing the USB device

Select the USB EJECT menu before removing the USB device.

- 1 Q. MENU Select **USB Eject**.
- 2

Precautions when using a USB device

- ▶ Only a USB storage device is recognizable.
- ▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
- ▶ A USB storage device using an automatic recognition programme may not be recognized.
- ▶ A USB storage device which uses its own driver may not be recognized.
- ▶ The recognition speed of a USB storage device may depend on each device.
- ▶ Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- ▶ Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files or image files.
- ▶ Please use only a USB storage device which was formatted as a FAT32 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 0.5A) 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. If you use a cable which is not offered by the device maker or an excessively long cable(max 5m), the device may not be recognized.
- ▶ 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 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.
- ▶ Only the FAT32 file system supports the delete function.
- ▶ 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.
- ▶ The recommended capacity is 32GB or less for USB memory.
- ▶ Any device with more than the recommended capacity may not work properly.

TO USE A USB DEVICE

PHOTO LIST

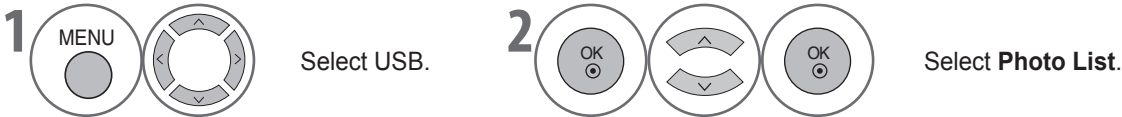
You can view photo files on USB storage device.
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

PHOTO(*.JPEG) supporting file

Baseline: 7680 x 4320

- You can play JPEG files only.
- Only baseline scan is supported among JPEG (SOF0, SOF1 only).
- Non-supported files are displayed in the form of bitmap.

Screen Components



- 1 Moves to upper level file
- 2 Current page/Total pages
- 3 Total number of marked photos
- 4 Usable USB memory
- 5 Corresponding buttons on the remote control

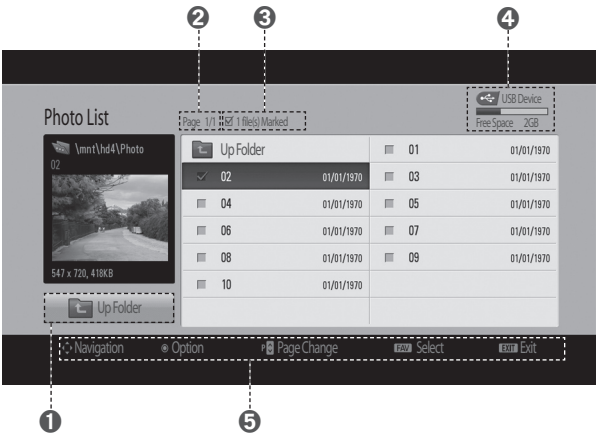
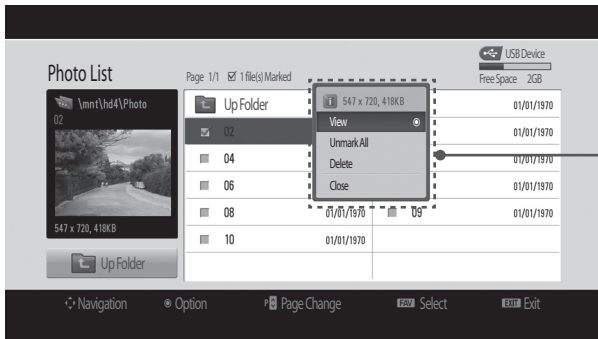
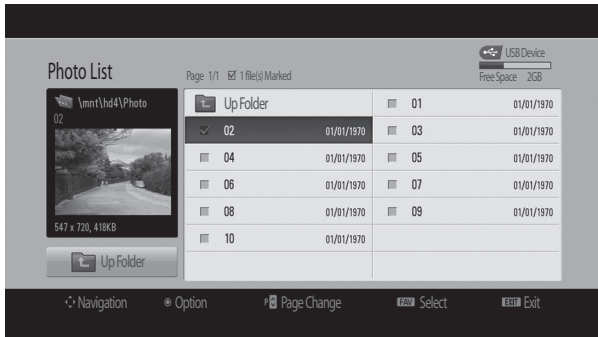
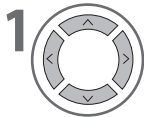


Photo Selection and PopUp Menu

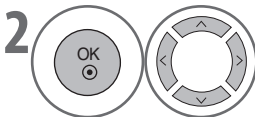


- ▶ **View** : Display the selected item.
- ▶ **Mark All** : Mark all photos on the screen.
- ▶ **Unmark All** : Deselect all marked photos.
- ▶ **Delete** : Delete the selected photo item.
- ▶ **Close** : Close the pop-up menu.

TO USE THE USB DEVICE



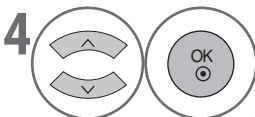
Select the target folder or drive.



Select the desired photos.



Show the PopUp menu.



Select the desired PopUp menu.

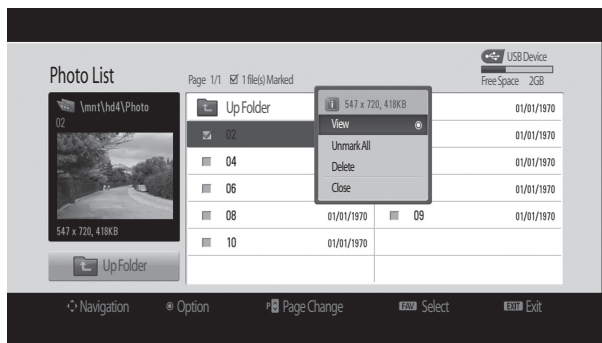
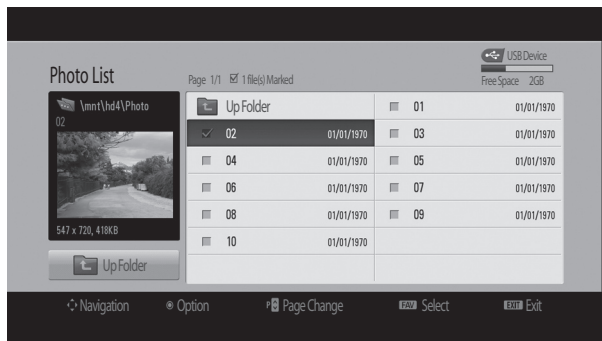
- Use the **P** ^ v button to navigate in the photo page.
- Use the **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder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

• Press the **RETURN** button to return to the previous screen.

TO USE A USB DEVICE

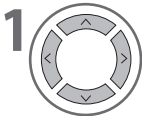
How to view photo

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



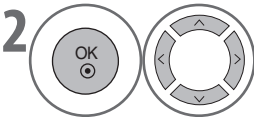
The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.
Press the **RETURN** button to return to the previous screen.

TO USE THE USB DEVICE



Select the target folder or drive.

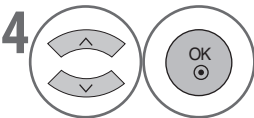
• Use the **P** \wedge \vee button to navigate in the photo page.



Select the desired photos.



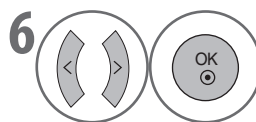
Show the PopUp menu.



Select **View**



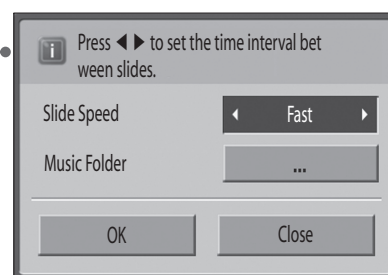
The selected photo is displayed in full size.



Select the **Slideshow**, **BGM**, **⌚ (Rotate)**, **Delete**, **Option** or **Close**.

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

- ▶ **Slideshow** : When no picture is selected, all photos in the current folder are displayed during slide show. If some photos are selected, those photos are displayed in a slide show.
 - Set the time interval of the slide show in **Option**.
- ▶ **BGM(Background Music)** : Listen to music while viewing photos in full size.
 - Set the Music Folder for BGM in Options before using this function.
- ▶ **⌚ (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.
- ▶ **Delete** : Delete photos.
- ▶ **Option** : Set values for **Slide Speed** and **Music Folder** for BGM.
 - Use ⌚ < > button and **OK** button to set values. Then go to **OK** and press **OK** to save the settings.
 - You cannot change **Music Folder** while BGM is playing.
- ▶ **Close** : Hide the menu on the full-sized screen.
 - To see the menu again on the full-sized screen, press **OK** button to display.



TO USE A USB DEVICE

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.

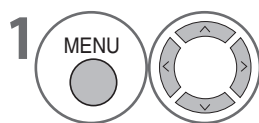
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

MUSIC (*.MP3) supporting file

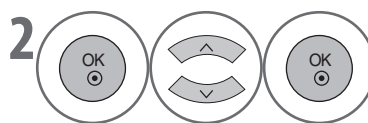
Bit rate 32 ~ 320

• Sampling rate MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz.

Screen Components

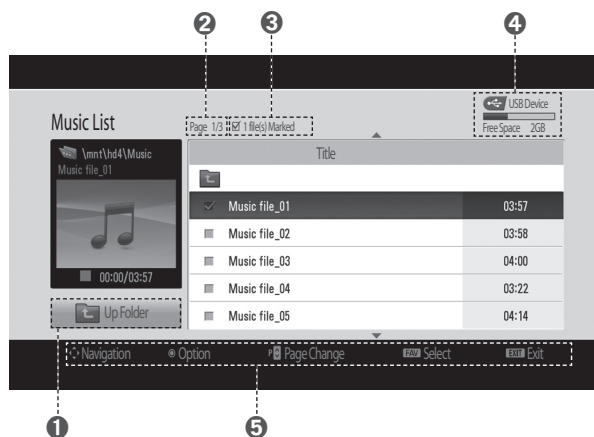


Select USB.



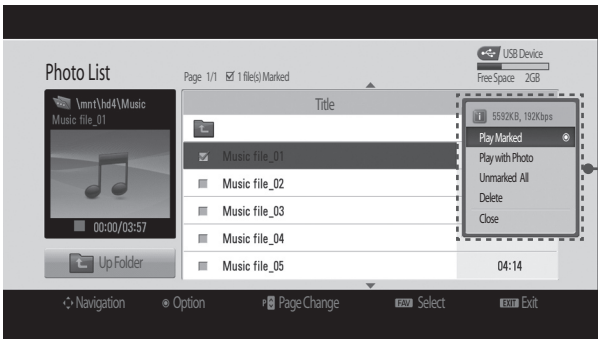
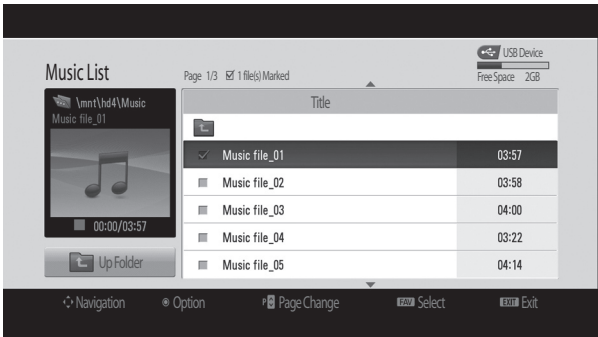
Select **Music List**.

- ❶ Moves to upper level file
- ❷ Current page/Total pages
- ❸ Total number of marked musics
- ❹ Usable USB memory
- ❺ Corresponding buttons on the remote control



Music Selection and PopUp Menu

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

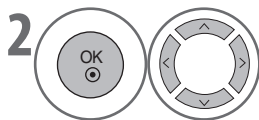


- ▶ **Play** (During stop) : Play the selected musics. Once a music finishes playing, the next selected one will be played. When there are no selected musics to play, the next one in the current folder will be played. If you go to a different folder and press the **OK** button, the current music in playback will stop.
- ▶ **Stop Play** (During playback) : Stop the playing musics.
- ▶ **Play with Photo** : Start playing the selected musics and then move to the Photo List.
- ▶ **Mark All** : Mark all musics in the folder.
- ▶ **Unmark All** : Deselect all marked musics.
- ▶ **Delete** : Delete the selected musics.
- ▶ **Close** : Close the pop-up menu.

TO USE THE USB DEVICE



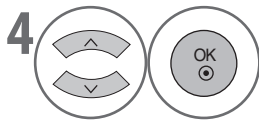
Select the target folder or drive.



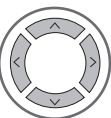
Select the desired musics.



Show the PopUp menu.



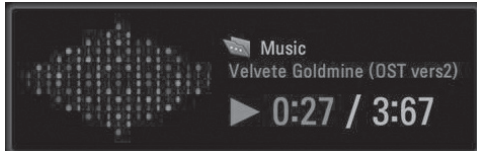
Select the desired PopUp menu.

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

• Press the **RETURN** button to return to the previous screen.

TO USE A USB DEVICE

- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.
- The 'Screen Saver'?
Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.



NOTE





- ▶ When music is playing, 🎵 is displayed in back of the music title.
- ▶ A damaged or corrupted music does not play but displays 00:00 in playtime.
- ▶ A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- ▶ If you press ■ button, screen saver is stopped.
- ▶ The **PLAY** (▶), **Pause** (||), ■, ▶▶, ◀◀ buttons on the remote control are also available in this mode.
- ▶ You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.

TV GUIDE (EPG; ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

The **TV GUIDE** displays the programmes for the next 7 days sent by the broadcaster.

Three modes are available for quick search and reminder; **Table**, **Schedule** and **Find**.

The On Screen Displays (OSD) and function may differ based on the TV selected.

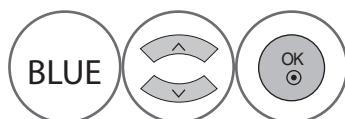
-
- 1  Display or exit the TV Guide.
 - 2  Move to **Schedule** mode.
 - 3  Move to **Find** mode.
 - 4  Move to **Table** mode.

TV GUIDE (EPG; ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

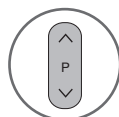
Button Function in Table mode

You can view the programme information of all channels in time and date order.

Mon, 25 Jun.		23:00	00:00	01:00
1	3sat	Münchner (Fil..	Personenbeschib..	
2	Doku/KiKa	Herrscher der Mee..	Personenbeschib..	
3	ZDF	Kleines Fernsehspiel	..	



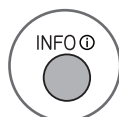
Change the date.



Change the page.



Switch between TV and Radio groups.



Display the programme information.

■ Selecting a programme



1 Select a programme on air.



2 Switch to the selected programme.

■ Reserving the watching



1 Select a programme in the future.





2 Reserve the watching of the selected programme. (To cancel, press it again.)
The reserved programmes are added automatically in **Schedule**.


Button Function in Schedule mode

Schedule displays the list of the programmes reserved. You can edit, delete or add the reminders.

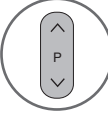




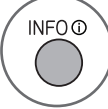
Edit or add a reminder.



Delete a reminder.






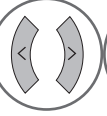

Change the page.





Display the programme information.

■ **Editing/Adding the reminder**

1  Select a reservation and display the Reminder popup.

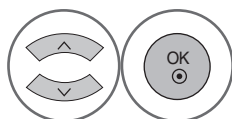
2  Select each option and enter the values.

3  Select **OK** to save.

TV GUIDE (EPG; ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

Button Function in Find mode

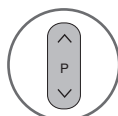
Find enables you to find the programme you want by entering the keyword, genre, time and day of the programme. It will be found from among the programmes of the group selected in Table mode.



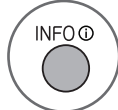
Input the Keyword, Genre, Time, Day values and select **Search**.



Display the previous inputted values.



Change the page.



Display the programme information.

■ Selecting a programme



Select a programme on air.



Switch to the selected programme.

■ Reserving the watching



Select a programme in the future.



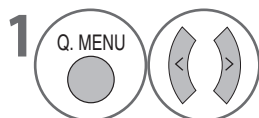
Reserve the watching of the selected programme. (To cancel, press it again.) The reserved programmes are added automatically in **Schedule**.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

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

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



Select **Aspect Ratio**.



Select the desired picture format.

- You can also adjust **Aspect Ratio** in the **PICTURE** menu.
- By pressing **OK** button in **14:9**, **Zoom** or **Cinema Zoom**, you can adjust the zoom size and position. After completing Zoom Setting, the display goes back to Q.Menu.

• 16:9

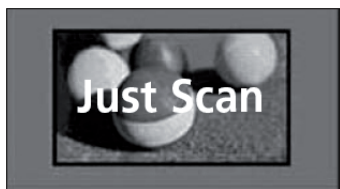
The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).



• 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.



PICTURE CONTROL

• 4:3

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



• 14:9

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



• Zoom

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



• 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 1~16.

▼ or ▲ button : Move the screen.

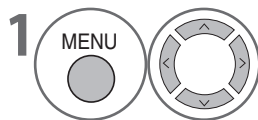
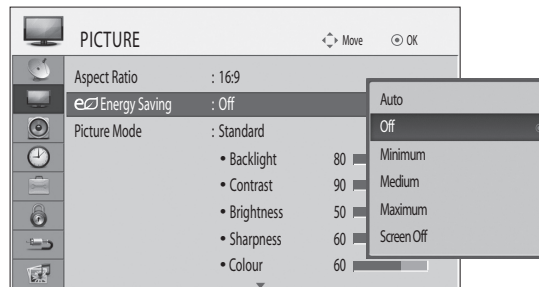
NOTE :

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

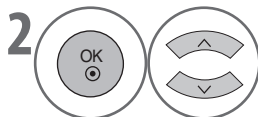
e ENERGY SAVING

It reduces the TV's power consumption.

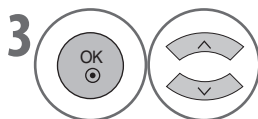
You can increase the brightness of your screen by adjusting the **Energy Saving level** or by setting the **Picture Mode**.



Select **PICTURE**.



Select **e ENERGY SAVING**.



Select **Auto**(Except for 32/42LH33**), **Off**, **Minimum**, **Medium**, **Maximum** or **Screen Off**.

- When selecting Screen off, TV turned off after 3 seconds.
- If you adjust "**Energy Saving-Auto**(Except for 32/42LH33**), **Minimum**, **Medium**, **Maximum**", Backlight feature will not work.
- You can also adjust this feature by selecting **Energy Saving** button on the remote control.
- When selecting Auto, Backlight is automatically adjusted through intelligent sensor according to the surrounding condition when intelligent sensor is in the TV. (Except for 32/42LH33**)

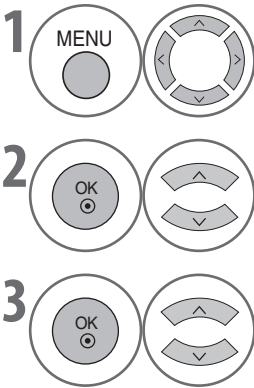
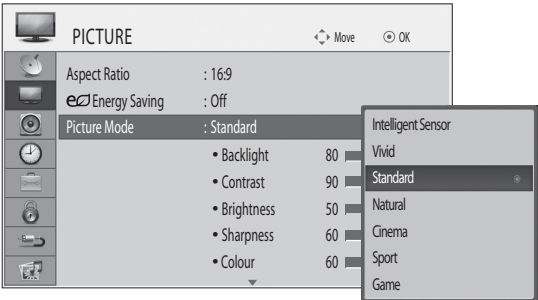
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

PICTURE CONTROL

PRESET PICTURE SETTINGS

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

Picture Mode-Preset



Select **PICTURE**.

Select **Picture Mode**.

Select **Intelligent Sensor** (Except for 32/42LH33**), **Vivid**, **Standard**, **Natural**, **Cinema**, **Sport** or **Game**.

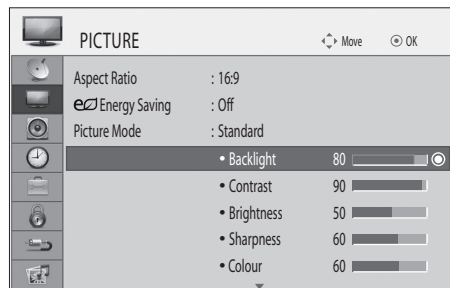
- **Picture Mode** adjusts the TV for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.
- You can also adjust **Picture Mode** in the **Q. Menu**.
- **Intelligent Sensor** (Except for 32/42LH33**) : Adjusts picture according to the surrounding conditions.

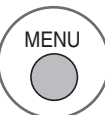
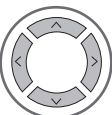

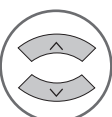
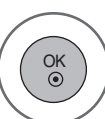
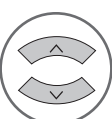

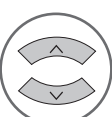
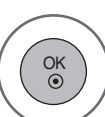
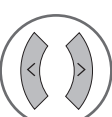
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

- **Backlight**
To control the brightness of the screen, adjust the brightness of LCD panel.
Adjusting the backlight when setting the brightness of the set is recommended.
- **Contrast**
Adjusts the 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.
- **Colour**
Adjusts intensity of all colours.
- **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.
- **Tint**
Adjusts the balance between red and green levels.



- 1   Select **PICTURE**.
- 2   Select **Picture Mode**.
- 3   Select **Vivid, Standard, Natural, Cinema, Sport or Game**.
- 4   Select **Backlight, Contrast, Brightness, Colour, Sharpness or Tint**.
- 5   Make appropriate adjustments.

- It is not available to use this function in "**Intelligent Sensor**" (Except for 32/42LH33**)
- **Benefits of using Backlight**
 - The electricity consumption is reduced by up to 60%.
 - The black brightness is reduced. (As the black has greater depth, you can enjoy a better quality definition.)
 - You can adjust brightness with maintaining original signal resolution.

NOTE

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

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

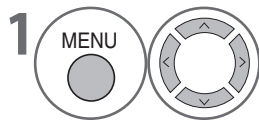
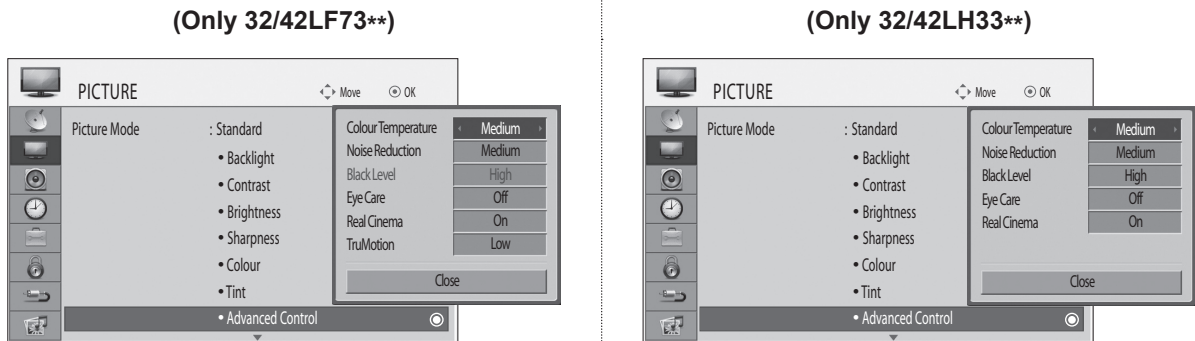
PICTURE CONTROL

PICTURE IMPROVEMENT TECHNOLOGY

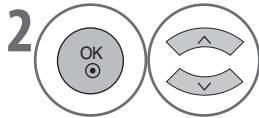
You can calibrate the screen for each Picture Mode or set the video value according to the special video screen.

You can set the video value differently for each input.

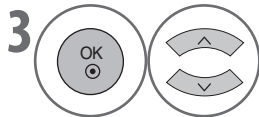
To reset to the factory default screen after making adjustments to each video mode, execute the "Picture Reset" function for each Picture Mode.



Select **PICTURE**.



Select **Advanced Control**.



Select your desired Source.
Colour Temperature, Noise Reduction, Black Level, Eye Care, Real Cinema or TruMotion (Only 32/42LF73).** (► p. 77)



Make appropriate adjustments.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

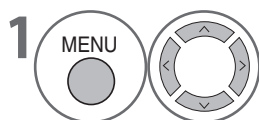
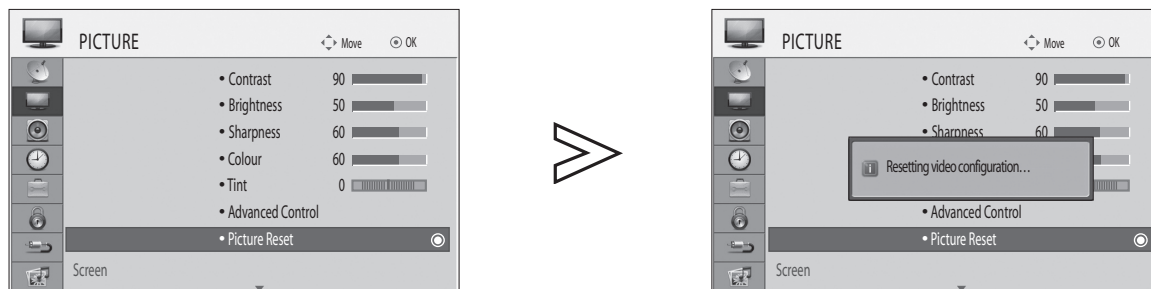
Colour Temperature (Warm/Medium/Cool)	<ul style="list-style-type: none"> ■ Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to make picture bluish.
Noise Reduction (Off/Low/Medium/High)	<ul style="list-style-type: none"> ■ Reduces screen noise without compromising video quality
Black Level (Low/High)	<ul style="list-style-type: none"> • Low : The picture of the screen gets darker. • High : The picture of the screen gets brighter. ■ 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.
Eye Care (On/Off)	<ul style="list-style-type: none"> ■ Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. ■ This feature is disable in "Picture Mode-Vivid, Cinema, Intelligent Sensor(Except for 32/42LH33**)".
Real Cinema (On/Off)	<ul style="list-style-type: none"> ■ Makes video clips recorded in film look more natural by eliminating judder effect. ■ This function can work when TruMotion is off.
TruMotion (Off/Low/High)	<p>*(Only 32/42LF73**)</p> <ul style="list-style-type: none"> • High : Provides smoother picture movement. • Low : Provides smooth picture movement. Use this setting for standard use. • Off : Use this setting when "High" and "Low" setting result in noise. ■ TruMotion can reduce perception of blur on fast moving scenes by displaying one hundred images per second. ■ It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source. ■ This feature is disable in RGB-PC, HDMI-PC mode. ■ If you enable "TruMotion", noise may appear on the screen. If this occurs, set "TruMotion" to "Off".

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

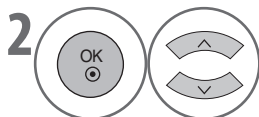
PICTURE CONTROL

PICTURE RESET

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



Select **PICTURE**.



Select **Picture Reset**.



Initialize the adjusted value.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

DEMO MODE (ONLY 32/42LF73**)

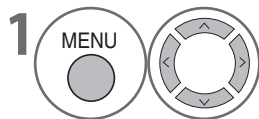
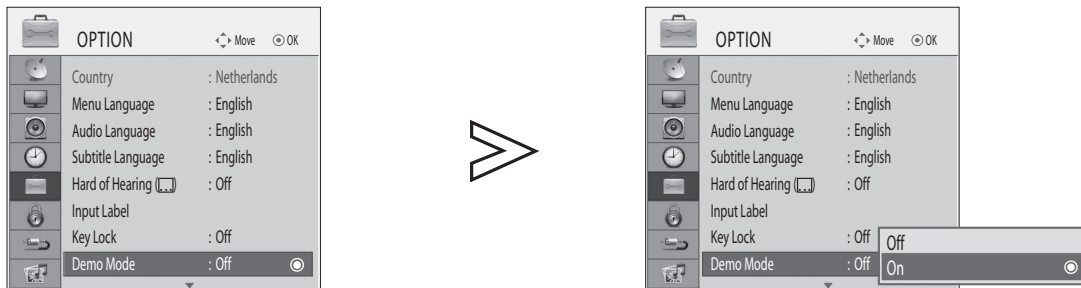
Display the slide show to explain the various logo of this TV.

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

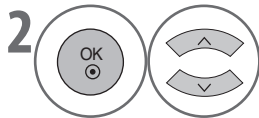
In **Store Demo**, **Demo Mode** is automatically set to **On**.

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

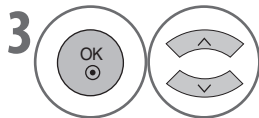
The screen is reset automatically after 5 minutes in **Demo Mode**.



Select **OPTION**.



Select **Demo Mode**.



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



Return to TV viewing.

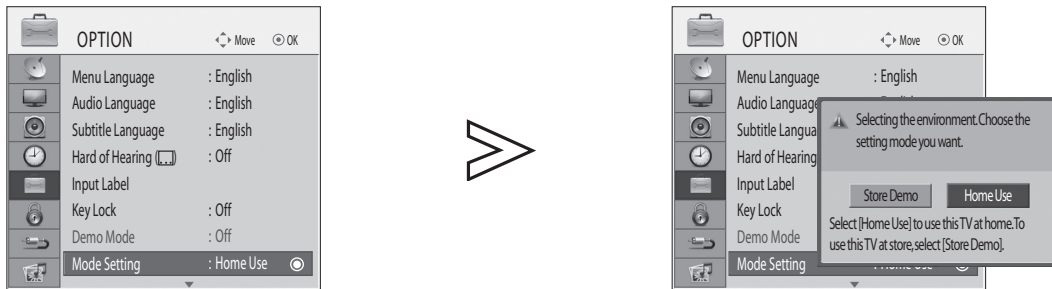
If you want to stop the demo, press any button. (except for **MUTE**, **△** + , - button).

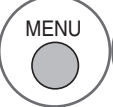


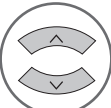

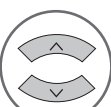

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

PICTURE CONTROL

MODE SETTING

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



-   Select **OPTION**.
-   Select **Mode Setting**.
-   Select **Store Demo** or **Home Use**.
-  Save.

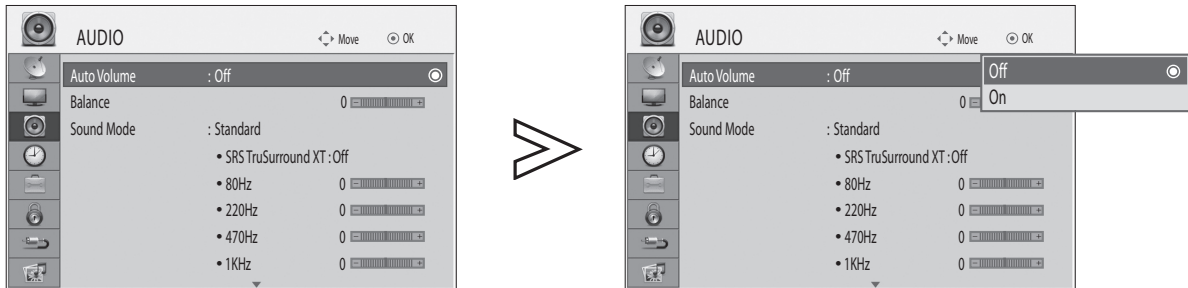
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

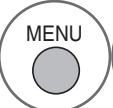
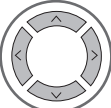




SOUND & LANGUAGE CONTROL

AUTO VOLUME LEVELER

AVL 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 program.



- 1   Select **AUDIO**.
- 2   Select **Auto Volume**.
- 3   Select **On** or **Off**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

SOUND & LANGUAGE CONTROL

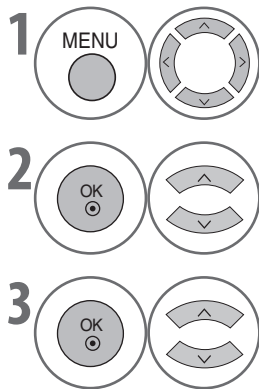
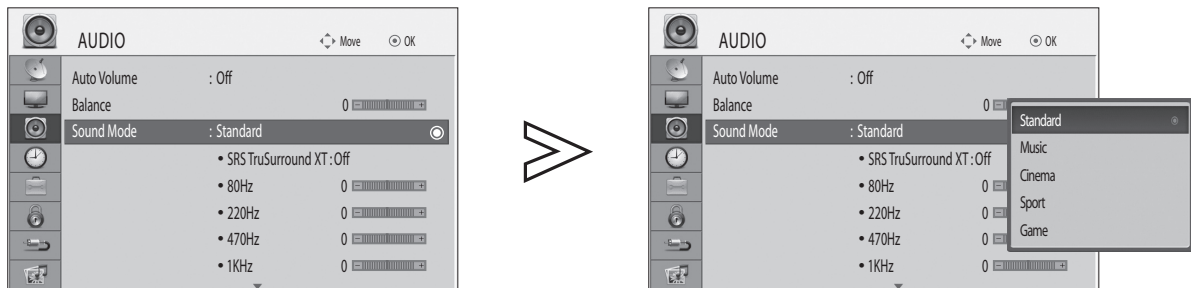
PRESET SOUND SETTINGS - SOUND MODE

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

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

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

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



Select **AUDIO**.

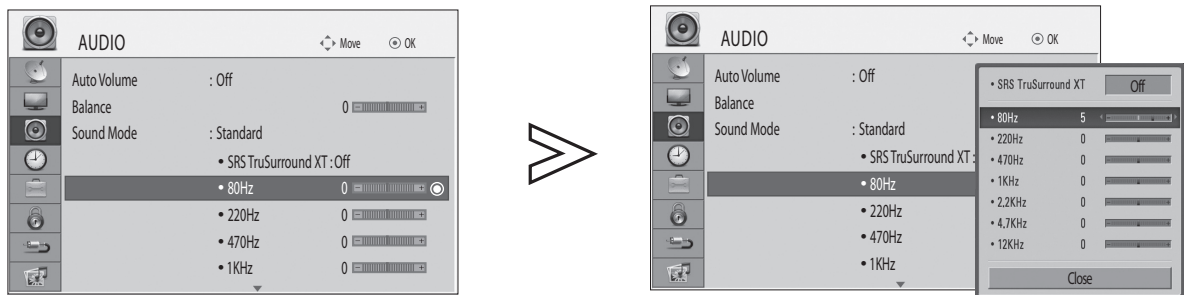
Select **Sound Mode**.

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

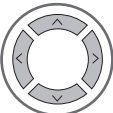
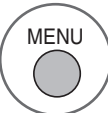
• You can also adjust **Sound Mode** in the **Q. Menu**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

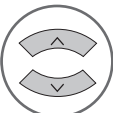
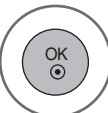
SOUND SETTING ADJUSTMENT - USER MODE



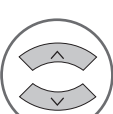

- 1



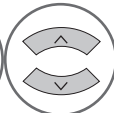
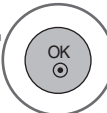
Select **AUDIO**.
- 2




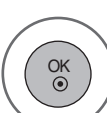
Select **Sound Mode**.
- 3



Select **Standard, Music, Cinema, Sport or Game**.
- 4



Select a frequency band.
- 5

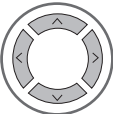
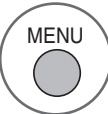


Set the desired sound level.

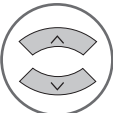
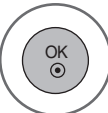
SRS TRUSURROUND XT

Select this option to sound realistic.

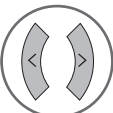
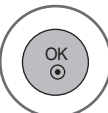
- 1



Select **AUDIO**.
- 2




Select **SRS TruSurround XT**.
- 3



Select **On** or **Off**.

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

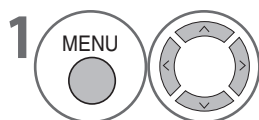
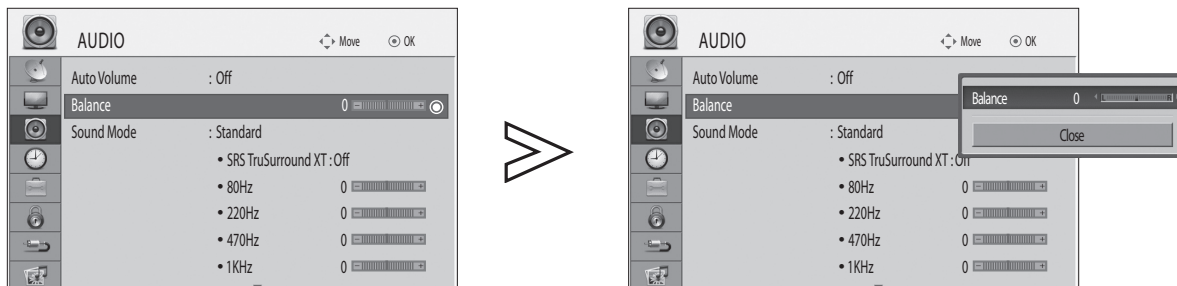
-  is a trademark of SRS Labs, Inc.
- ▶ TruSurround XT technology is incorporated under license from SRS Labs, Inc.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

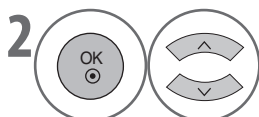
SOUND & LANGUAGE CONTROL

BALANCE

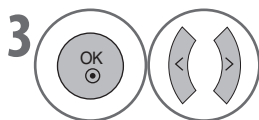
You can adjust the sound balance of the speakers to preferred levels.



Select **AUDIO**.



Select **Balance**.



Make desired adjustment.

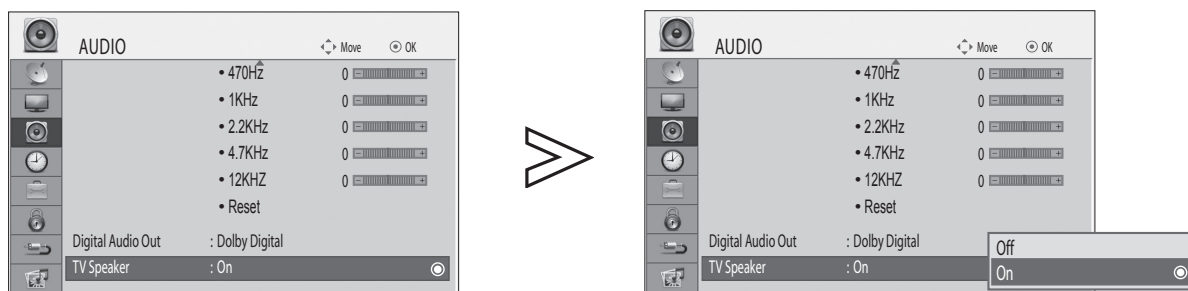
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

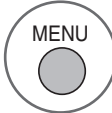
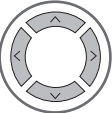
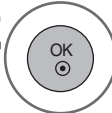
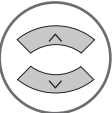
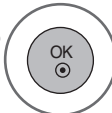
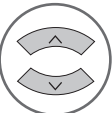
TV SPEAKERS ON/OFF SETUP

You can adjust the TV internal speaker status.

In **AV1**, **AV2**, **AV3**, **COMPONENT**, **RGB** and **HDMI1** with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.

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



- 1   Select **AUDIO**.
- 2   Select **TV Speaker**.
- 3   Select **On** or **Off**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

SOUND & LANGUAGE CONTROL

SELECTING DIGITAL AUDIO OUT

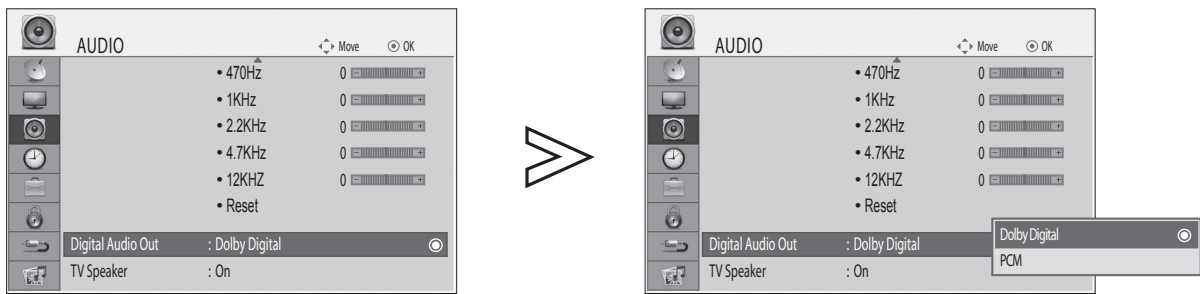
This function allows you to select your preferred Digital Audio Output.

The TV can only output Dolby Digital if a channel is broadcast with Dolby Digital audio.


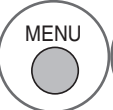
When Dolby digital is available, selecting Dolby Digital in the Digital Audio Out menu will set SPDIF (Sony Philips Digital InterFace) output to Dolby Digital

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

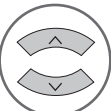
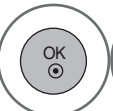
Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.



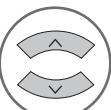

- 1



Select **AUDIO**.
- 2



Select **Digital Audio Out**.
- 3



Select **Dolby Digital** or **PCM**.

DOLBY
DIGITAL PLUS

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

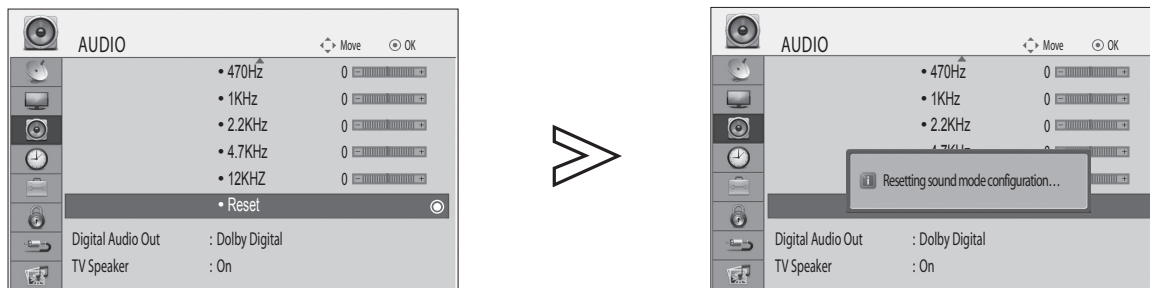
- There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM.

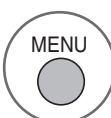
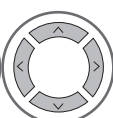

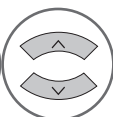
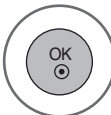
Item	Audio Input	Digital Audio output
Dolby Digital (Speaker On)	MPEG	PCM
	DD	DD
	DD+	DD
		PCM
Dolby Digital (Speaker Off)	MPEG	PCM
	DD	DD
	DD+	DD
		DD
PCM	PCM	PCM

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

AUDIO RESET

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



- 1   Select **AUDIO**.
- 2   Select **Reset**.
- 3  Initialize the adjusted value.

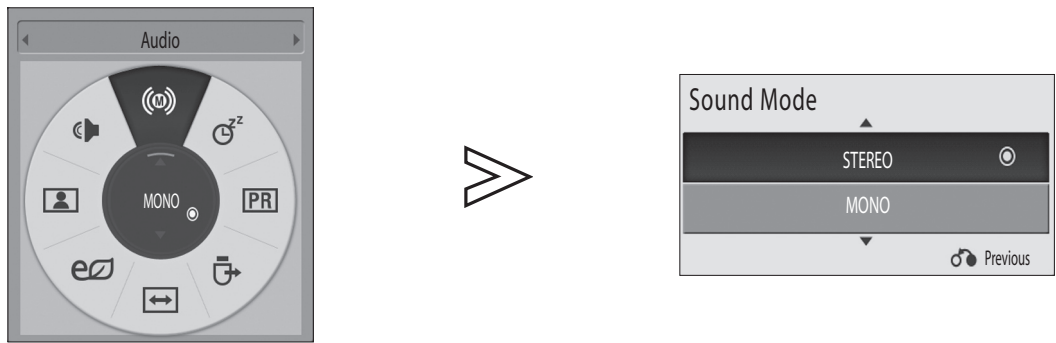
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

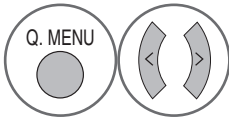
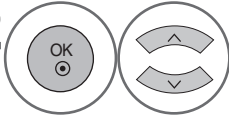
SOUND & LANGUAGE CONTROL

I/II

Stereo/Dual Reception (IN ANALOGUE MODE ONLY)

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



-  Select **AUDIO**.
-  Select the sound output.

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

■ Mono sound selection

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

■ Language selection for dual language broadcast

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

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

NICAM Reception (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.

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

Speaker Sound Output Selection

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

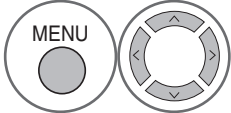
Select the sound output.

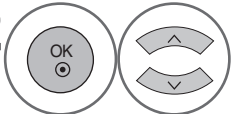
- L+R** Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.
- L+L** Audio signal from audio L input is sent to left and right loudspeakers.
- R+R** Audio signal from audio R input is sent to left and right loudspeakers.

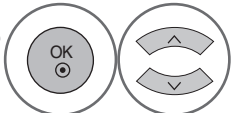
SOUND & LANGUAGE CONTROL

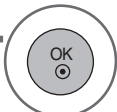
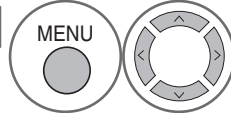
LANGUAGE SELECTION

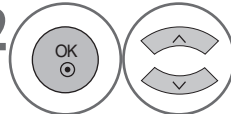

Select the default language and the hard of hearing.

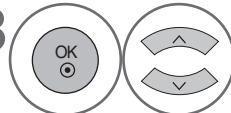
- 1**  Select **OPTION**.

2  Select **Menu Language** or **Audio Language** or **Subtitle Language**.

3  Select your desired language.

4  Save.
- 1**  Select **OPTION**.

2  Select **Hard of Hearing**().

3  Select **On** or **Off**.
- Press the **MENU** button to return to normal TV viewing.
 - Press the **RETURN** button to return to the previous screen.

Audio/Subtitle Language (In Digital mode only)

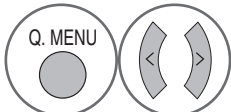
When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.

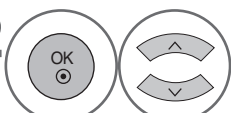
If audio data in a selected language is not broadcast, the default language audio will be played. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

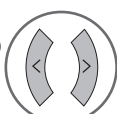
< Audio Language Selection >

The Audio function allows selection of a preferred language.






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

- 1**  Select **Audio**.

2  Select an audio language.

3  Select **L+R**, **L+L** or **R+R**.

Audio Language OSD Information


Display	Status
N.A	Not Available
	MPEG Audio
	Dolby Digital Audio
	Audio for "Visual Impaired"
	Audio for "Hearing Impaired"
	Dolby Digital Plus Audio

< Subtitle Language Selection >

Use the Subtitle function when two or more subtitle languages are broadcast.

- ▶ When two or more subtitle languages are broadcast, you can select the subtitle language with the **SUBTITLE** button on the remote control.
- ▶ Press the $\wedge \vee$ button to select a subtitle language.

Subtitle Language OSD Information

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

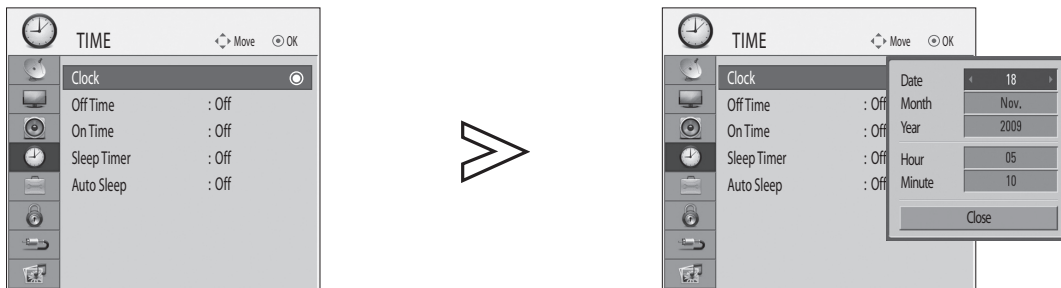
- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") the TV may output a part of the Main audio.

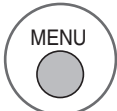
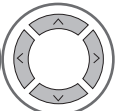
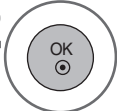
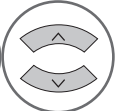



TIME SETTING

CLOCK SETUP

The clock is set automatically when receiving a digital TV signal.
Once Clock is set in digital mode, you cannot change time.
(You can set the clock manually only if the TV has no DTV signal.)

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



- 1   Select **TIME**.
- 2   Select **Clock**.
- 3   Select either the year, date, or time option.
- 4  Set the year, date, and time options.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

TIME SETTING

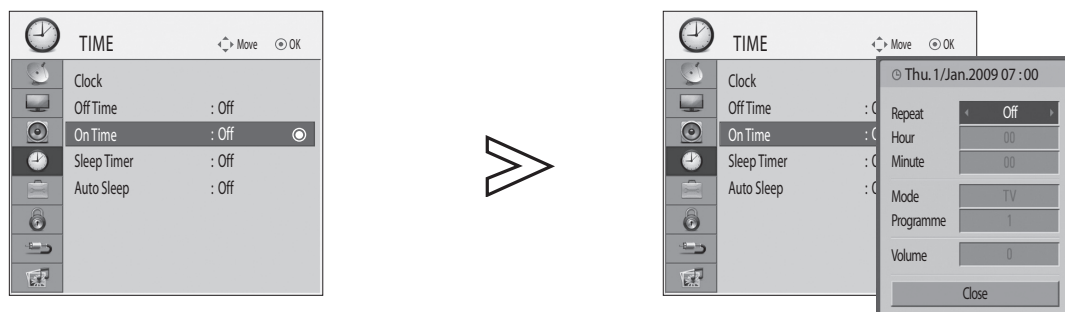
AUTO ON/OFF TIME SETTING

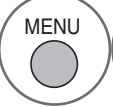
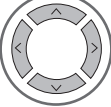

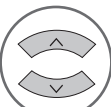

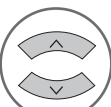

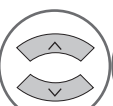
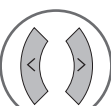


The Off time function automatically switches the TV to standby at a preset time.

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


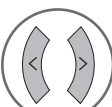

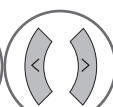


The Off time function overrides the On timer function if both are set to the same time.

The TV must be in standby mode for the On timer to work.



- 1   Select **TIME**.
- 2   Select **Off Time** or **On Time**.
- 3   Select **Repeat**.
- 4  Select **Off**, **Once**, **Daily**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Sun**.
- 5   Set the hour.
- 6   Set the minutes.

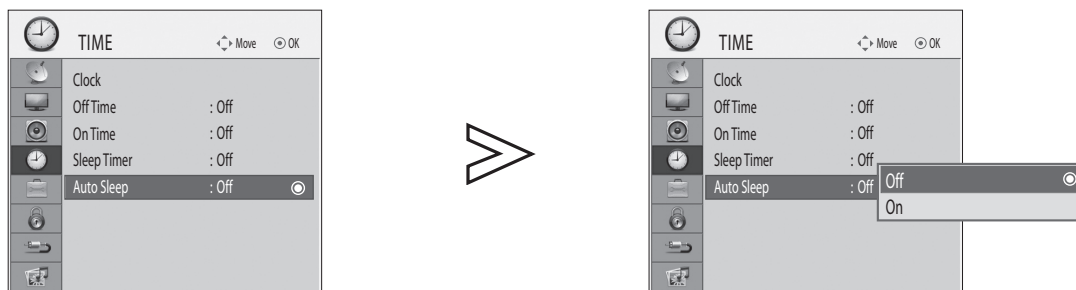
- To cancel **On/Off Time** function, select **Off**.
- For **On Time** function only

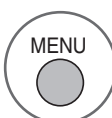
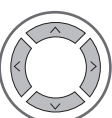
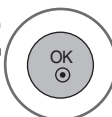
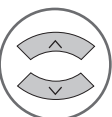
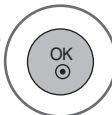
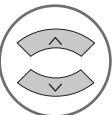
- 1  Select **Mode**.
- 2  Select **TV** or **DTV**.
- 3   Set the programme.
- 4   Adjust volume level at switch-on.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

AUTO SHUT-OFF SETTING

If the TV is switched on and there is no input signal, it will switch off automatically after 15 minutes.



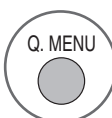
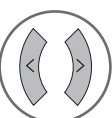
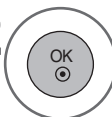
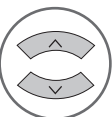
- 1   Select **TIME**.
- 2   Select **Auto Sleep**.
- 3   Select **Off** or **On**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

SLEEP TIMER SETTING

You do not have to remember to switch the TV off before you go to sleep.

The sleep timer automatically switches the TV to standby after the preset time has elapsed.

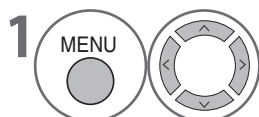
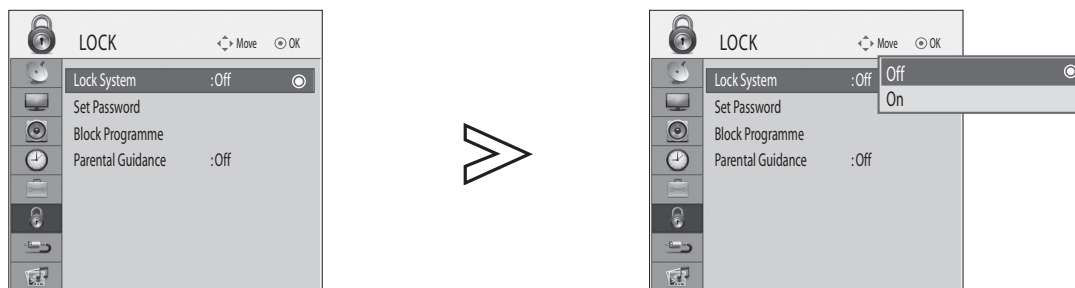
- 1   Select **Sleep Timer**.
- 2   Select **Off**, **10**, **20**, **30**, **60**, **90**, **120**, **180** or **240 Min**.

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

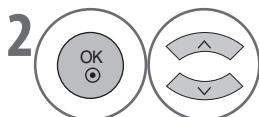
PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

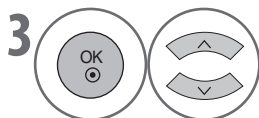
Enter the password, press '0', '0', '0', '0' on the remote control handset.



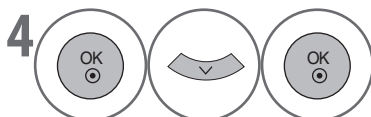
Select **LOCK**.



Select **Lock System**.



Select **On**.



Set the password.



Input a 4-digit password.
Be sure to remember this number!
Re-enter new password for confirm.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- If you have forgotten your password, press 7777 to reset your password.

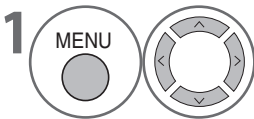
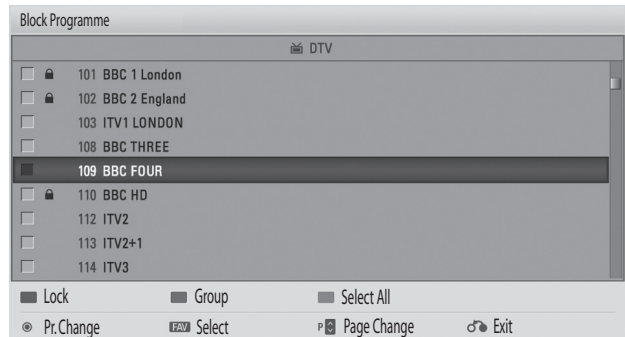
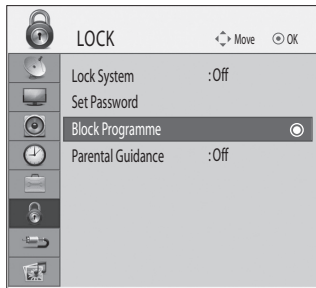
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

BLOCK PROGRAMME

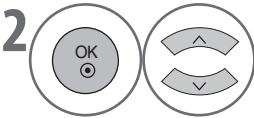
Blocks any programmes that you do not want to watch or that you do not want your children to watch.

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

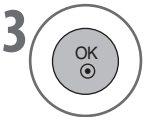
Enter a password to watch a blocked programme.



Select **LOCK**.



Select **Block Programme**.




Enter the **Block Programme**.



Select a programme to be locked/unlocked.



Lock or Unlock.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- The  icon will be displayed when the channel is locked.
- In Analogue Antenna mode, it will be saved automatically without the confirm message.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

PARENTAL CONTROL / RATINGS

PARENTAL CONTROL (IN DIGITAL MODE ONLY)

* This function is available only in Netherlands.

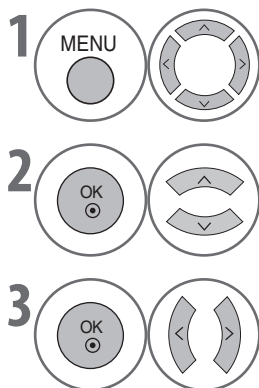
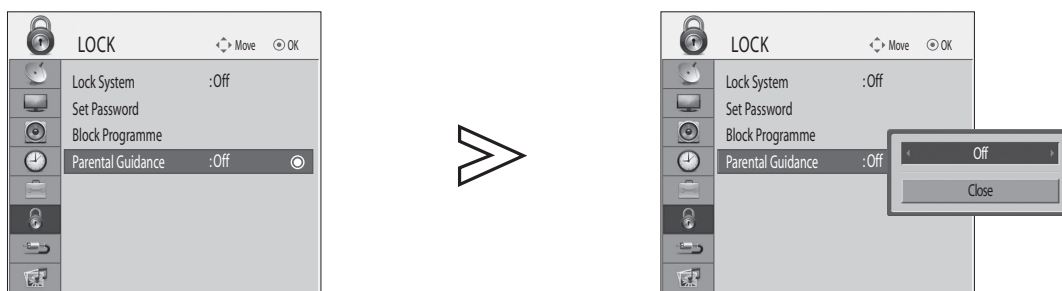
This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

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.



Select **LOCK**.

Select **Parental Guidance**.

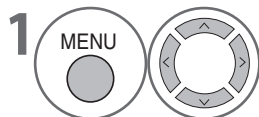
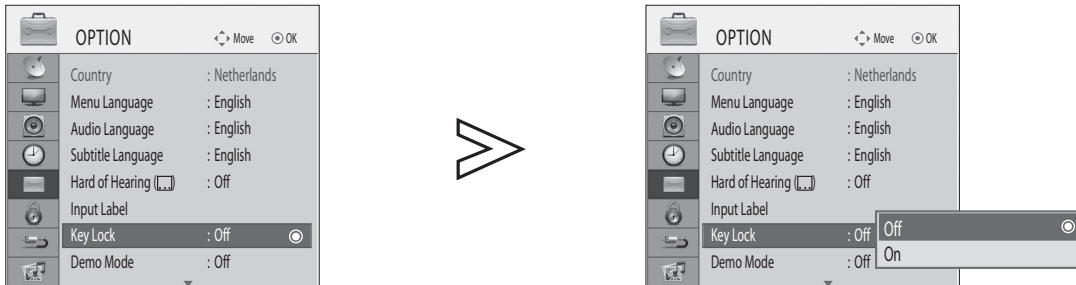
Make appropriate adjustments.

- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- If you have forgotten your password, press 7777 to reset your password.
- If **Parental Guidance** is set, a programme without parental rating will be blocked.

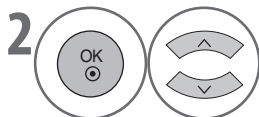
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

KEY LOCK

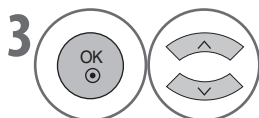
The TV can be set so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing.



Select **OPTION**.



Select **Key Lock**.



Select **On** or **Off**.



Save.

- In **Key Lock 'On'**, if the TV is turned off, press the **INPUT**, **P** ^ v button on the TV or **POWER**, **INPUT**, **P** ^ v or **NUMBER** buttons on the remote control then the TV will be turned on.
- With the **Key Lock On**, the display '⚠ **Key Lock On**' appears on the screen if any button on the front panel is pressed while viewing the TV.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to return to the previous screen.

TELETEXT

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

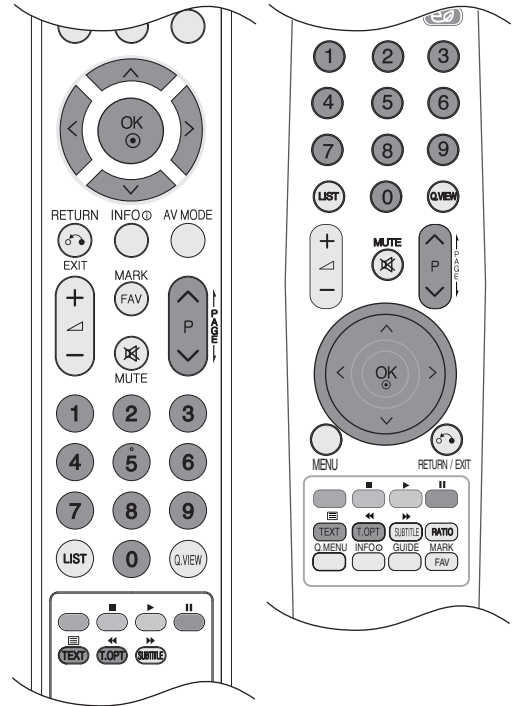
The teletext decoder of this TV can support the SIMPLE and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. FASTEXT is more modern method allowing quick and easy selection of teletext information.

SWITCH ON/OFF

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

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

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



SIMPLE TEXT


■ Page selection

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

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 \wedge \vee button to select  menu. Display the index page.
- 2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- 3 As with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- 4 The **P** \wedge \vee button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

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



■ Size

Selects double height text.



■ Index

Displays the index page.



■ Time

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



■ Hold

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



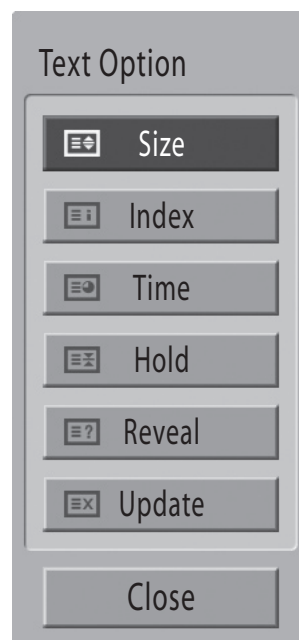
■ Reveal

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



■ Update

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



APPENDIX

TROUBLESHOOTING


The TV does not operate properly.

The remote control does not work	<ul style="list-style-type: none"> - Check to see if there is any object between the TV and the remote control causing an obstruction. Ensure you are pointing the remote control directly at the TV. - Ensure that the batteries are installed with correct polarity (+ to +, - to -). - Install new batteries.
Power is suddenly turned off	<ul style="list-style-type: none"> - Is the sleep timer set? - Check the power control settings. Has the Power supply been interrupted. - Is Auto Sleep activated on this station?

The video function does not work.

No picture & No sound	<ul style="list-style-type: none"> - Check whether the TV is switched on. - Try another channel. The problem may be with the broadcast. - Is the power cord inserted correctly into the mains? - Check your antenna direction and/or location. - Test the mains outlet by plugging another product into the same outlet.
Picture appears slowly after switching on	<ul style="list-style-type: none"> - This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	<ul style="list-style-type: none"> - Adjust Colour in menu option. - Allow a sufficient distance between the TV and the VCR. - Try another channel. The problem may be with the broadcast. - Are the video cables installed properly? - Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	<ul style="list-style-type: none"> - Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none"> - Station or cable channel experiencing problems, tune to another station. - Station signal is weak, reposition the antenna to receive weaker stations. - Check for sources of possible interference.
Lines or streaks in pictures	<ul style="list-style-type: none"> - Check antenna (Change the position of the antenna).
No picture when connecting HDMI	<ul style="list-style-type: none"> - Check that your HDMI cable is version 1.3 or higher. - If the HDMI cables don't support HDMI version 1.3, flicking or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.

The audio function does not work.

Picture OK & No sound	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Adjust Balance in menu option.
Unusual sound from inside the TV	<ul style="list-style-type: none"> - A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
No sound when connecting HDMI or USB	<ul style="list-style-type: none"> - Check HDMI cable over version 1.3. - 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)	<ul style="list-style-type: none"> - Adjust resolution, horizontal frequency, or vertical frequency. - Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	<ul style="list-style-type: none"> - Use Auto configure or adjust clock, phase, or H/V position. (Option)
Screen colour is unstable or single colour	<ul style="list-style-type: none"> - Check the signal cable. - Reinstall the PC video card.
There is a problem with PICTURE settings.	
When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.	<ul style="list-style-type: none"> - It means that the TV is currently set to Store Demo mode. To switch to Home use mode you should do the followings: From the TV Menu, choose OPTION -> Choose Mode Setting -> Choose Home use. Now, you have completed switching to the Home use mode.

MAINTENANCE

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

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

Cleaning the Screen

- 1 A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it is almost dry, and then use it to wipe the screen.
- 2 Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

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

Extended Absence

CAUTION

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

APPENDIX

PRODUCT SPECIFICATIONS

MODELS		32LF73**	42LF73**	32LH33**	42LH33**
		32LF7300-ZD	42LF7300-ZD	32LH3300-ZC	42LH3300-ZC
Dimensions (W x H x D)	with stand	797.0 x 597.0 x 227.3mm 31.3 x 23.5 x 8.9 inches	1026.2 x 734.0 x 293.8mm 40.4 x 28.8 x 11.5 inches	805.0 x 583.0 x 224.0 mm 31.7 x 23.0 x 8.8 inches	1028.0 x 715.4 x 297.0 mm 40.5 x 28.2 x 11.7 inches
	without stand	797.0 x 558.6 x 100.5 mm 31.3 x 21.9 x 3.9 inches	1026.2 x 687.9 x 111.8 mm 40.4 x 27.0 x 4.4 inches	805.0 x 531 x 79.9 mm 31.7 x 20.9 x 3.1 inches	1028.0 x 658.6 x 87.8 mm 40.5 x 25.9 x 3.5 inches
Weight	with stand	12.8kg / 28.2lbs	20.7kg / 45.6lbs	12.4Kg / 27.3lbs	18.6Kg / 41.0lbs
	without stand	11.3kg / 24.9lbs	18.1kg / 39.9lbs	11.1Kg / 24.5lbs	16.7Kg / 36.8lbs
Power requirement Power Consumption		AC100~240V~50/60Hz 170W	AC100~240V~50/60Hz 215W	AC100~240V~50/60Hz 165W	AC100~240V~50/60Hz 205W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches			
Television System Programme Coverage External Antenna Impedance		PAL B/G, D/K, I SECAM B/G, DK VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47 75 ohm			
Environment condition	Operating Temperature Operating Humidity	0 ~ 40°C / 32 ~ 104°F Less than 80%			
	Storage Temperature Storage Humidity	-20 ~ 60°C / -4 ~ 140°F Less than 85%			

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

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- busybox
- freetype

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- libexif
- id3lib

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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APPENDIX

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