LG
Life's Good

OWNER'S MANUAL

LCD TV / LED LCD TV

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

www.lg.com

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PREPERATION

LCD TV MODELS : 32/42LD5**

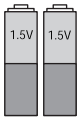
ACCESSORIES

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 (AAA)



Remote Control

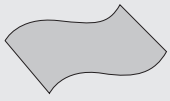


Power Cord



Protection Cover

This item is not included for all models.



Polishing Cloth
Polishing cloth for use on the screen.

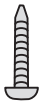
* Lightly wipe any stains or fingerprints on the surface of the TV with the polishing cloth.

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



M4 x 20

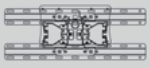
Bolts for stand assembly



1-screw for stand fixing

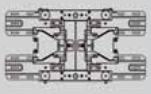
Wall Mounting Bracket (Seperate purchase)

LSW100B or
LSW100BG



32LD5**

LSW200B or
LSW200BG



42LD5**

FRONT PANEL CONTROLS

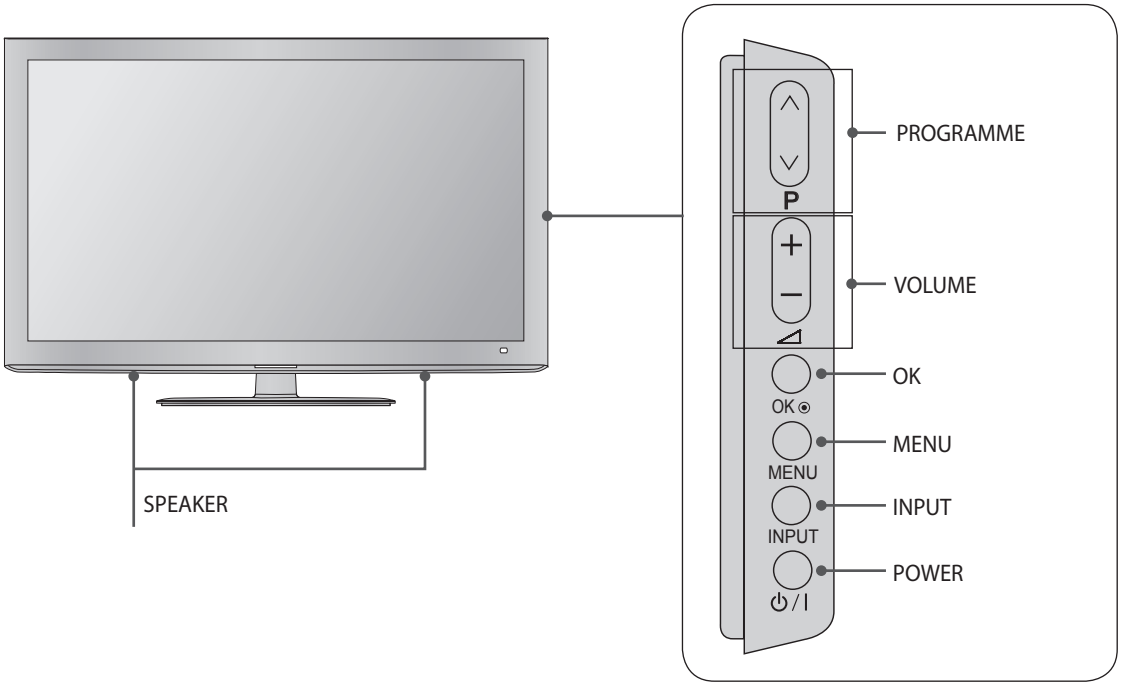
NOTE :

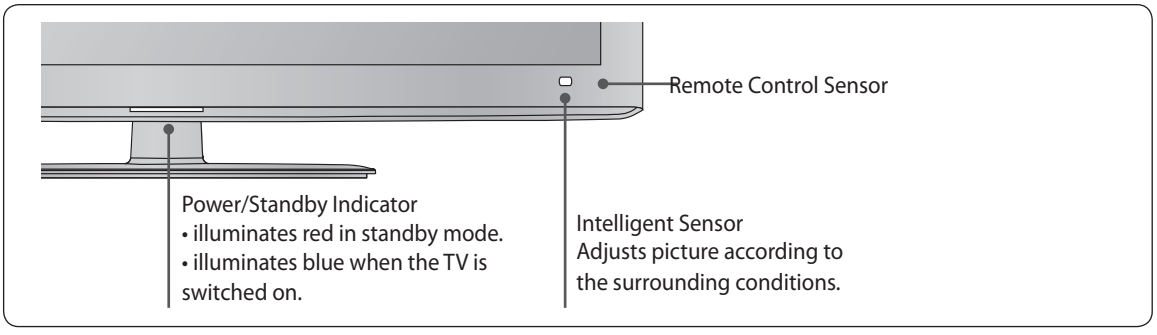
- ► TV can be placed in standby mode in order to reduce the power consumption. And TV should be switched off using the power switch on the TV if it will not be watched for some time, as this will reduce energy consumption.
- ► The energy consumed during use can be significantly reduced if the level of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

CAUTION :

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

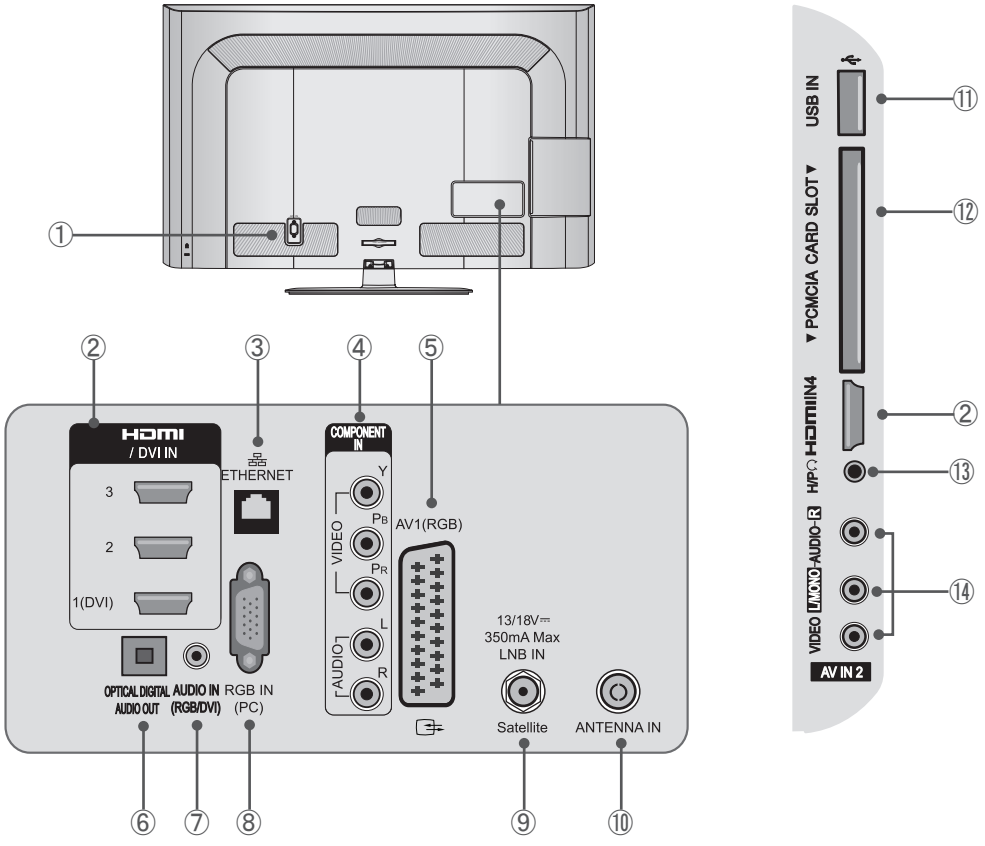
■ Image shown may differ from your TV.





BACK PANEL INFORMATION

■ Image shown may differ from your TV.



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

③ **ETHERNET Input**
Connect a LAN cable.

④ **Component Input**
Connect a component video/audio device to these jacks.

⑤ **Euro Scart Socket (AV1)**
Connect scart socket input or output from an external device to these jacks.

⑥ **OPTICAL DIGITAL AUDIO OUT**
Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.
Note: In standby mode, these ports do not work.

⑦ **RGB/DVI Audio Input**
Connect the audio from a PC or DTV.

⑧ **RGB IN Input**
Connect the output from a PC.

⑨ **Satellite LNB Input**
Connect a satellite antenna cable.

⑩ **Antenna Input**
Connect a RF antenna or cable to this jack.

⑪ **USB Input**
Connect USB storage device to this jack.

⑫ **PCMCIA (Personal Computer Memory Card International Association) Card Slot**
Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑬ **Headphone Socket**
Plug the headphone into the headphone socket.

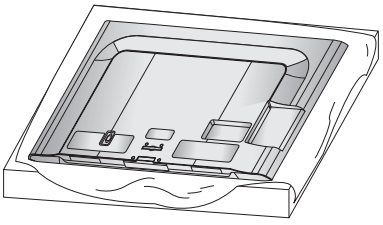
⑭ **Audio/Video Input (AV2)**
Connect audio/video output from an external device to these jacks.

STAND INSTALLATION

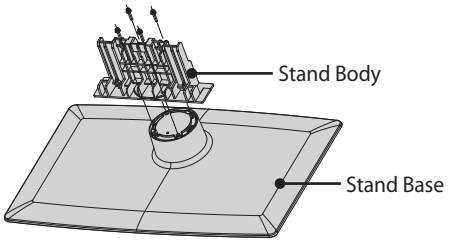
■ Image shown may differ from your TV.

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.

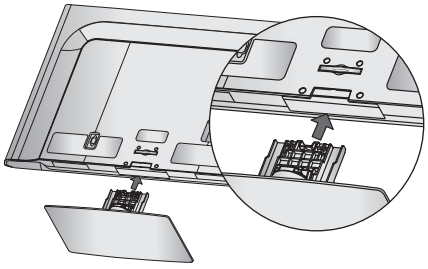
❶ Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



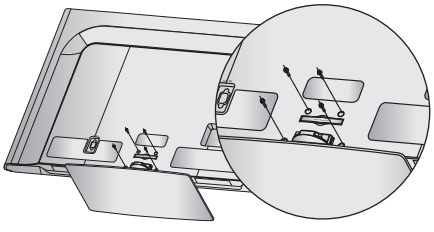
❷ Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



❸ Assemble the TV as shown.



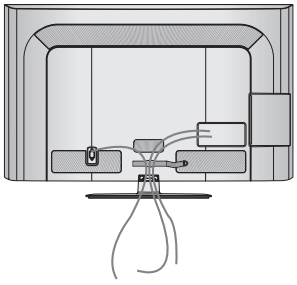
❹ Fix the 4 bolts securely using the holes in the back of the TV.



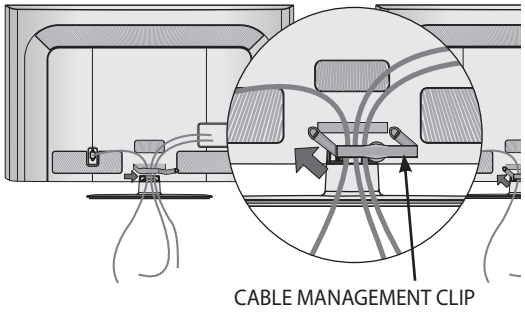
BACK COVER FOR WIRE ARRANGEMENT

■ Image shown may differ from your TV.

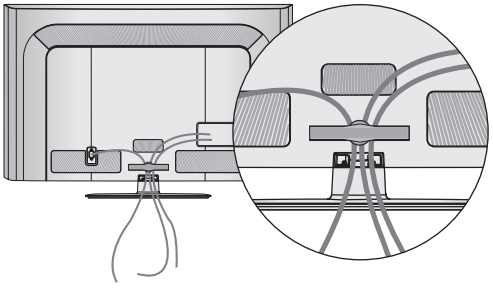
❶ Connect the cables as necessary.
To connect additional equipment, see the **External Equipment Setup** section.



❷ Install the **CABLE MANAGEMENT CLIP** as shown.



❸ Fit the **CABLE MANAGEMENT CLIP** as shown.



NOTE :

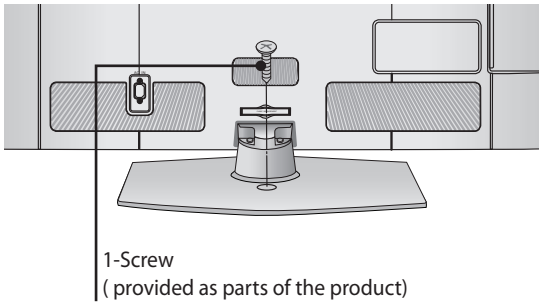
► Do not use the **Cable Management Clip** to lift the TV.

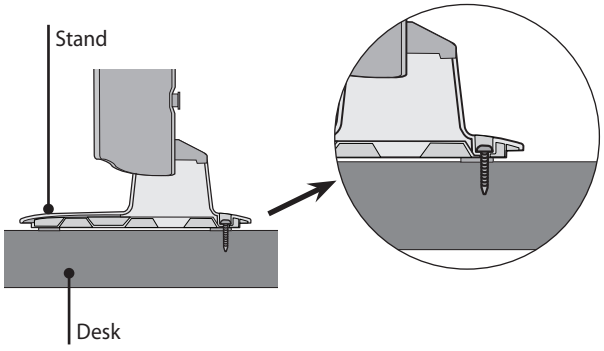
- If the TV is dropped, you may be injured or the TV may be damaged.

ATTACHING THE TV TO A DESK

■ Image shown may differ from your TV.

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





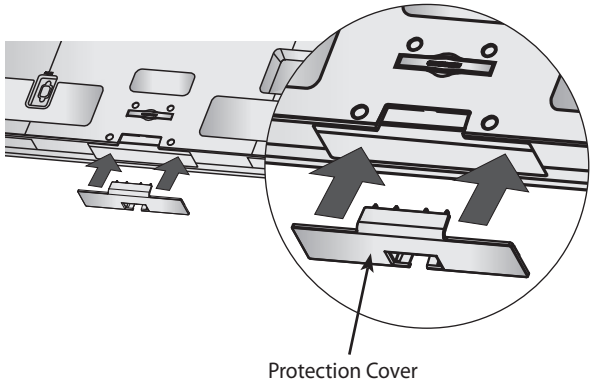
WARNING

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

NOT USING THE DESK-TYPE STAND

■ Image shown may differ from your TV.

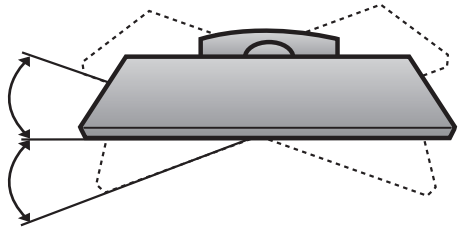
When installing the wall-mounted unit, use the protection cover. Insert the **Protection Cover** into the TV until clicking sound.



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.



KENSINGTON SECURITY SYSTEM

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

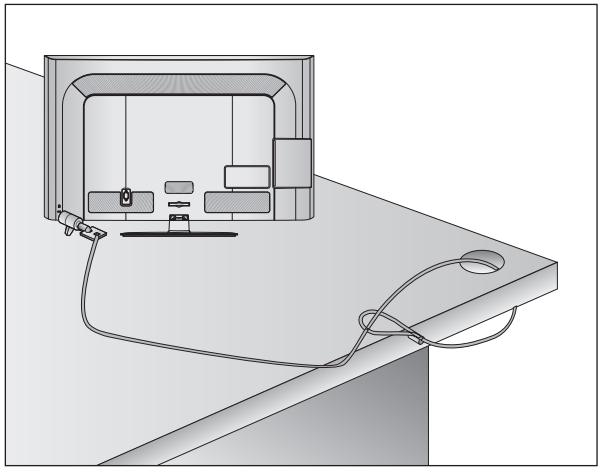
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

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

For further information, contact http://www.kensington. com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

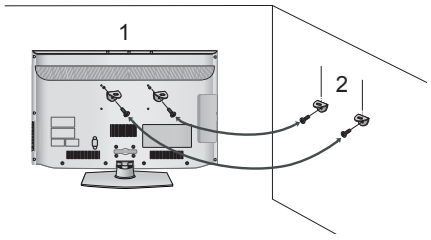
NOTE

- ► The Kensington Security System is an optional accessory.
- ► If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.
- ► Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- ► Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.



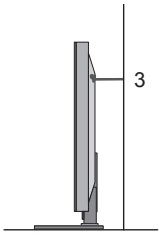
CAREFUL INSTALLATION ADVICE

- You should purchase necessary components to fix the TV safety and secure to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, by fixing it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that



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

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



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

NOTE

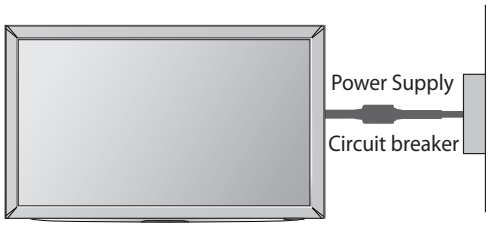
- ► When moving the TV undo the cords first.
- ► Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ► To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

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

EARTHING

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

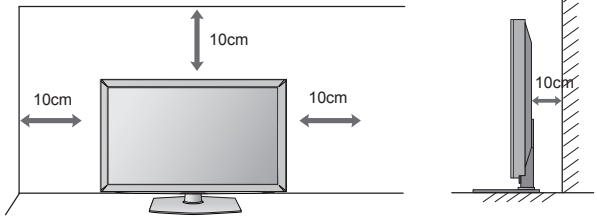
Do not try to earth the TV by connecting it to telephone wires, lightening rods or gas pipes.



DESKTOP PEDESTAL INSTALLATION

- Image shown may differ from your TV.

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

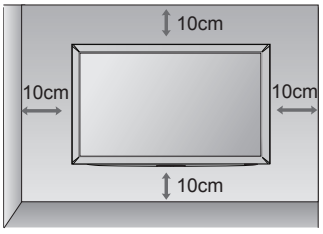


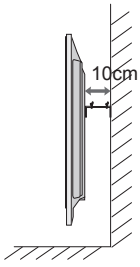
WALL MOUNT : HORIZONTAL INSTALLATION

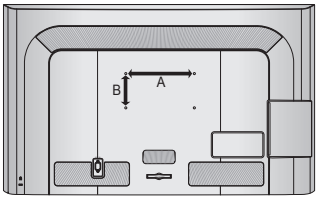
- We recommend the use of a LG Brand wall mounting bracket when mounting the TV to a wall.
- We recommend that you purchase a wall mounting bracket which supports VESA standard.
- LG recommends that wall mounting be performed by a qualified professional installer.

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
32LD5**	200 * 100	M4	4
42LD5**	200 * 200	M6	4

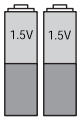
LED TV MODELS : 32/42LE5***
ACCESSORIES

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- Image shown may differ from your TV



Owner's Manual



Batteries (AAA)



Remote Control

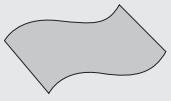


Cable Holder



Bolts for stand assembly

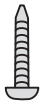
This item is not included for all models.



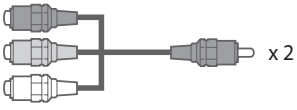
Polishing Cloth
Polishing cloth for use on the screen.

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

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



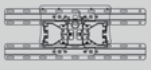
1-screw for stand fixing
(only 32LE5***)



Component gender cable,
AV gender cable

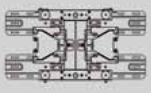
Wall Mounting Bracket (Seperate purchase)

LSW100B or
LSW100BG



32LE5***

LSW200B or
LSW200BG



42LE5***

FRONT PANEL CONTROLS

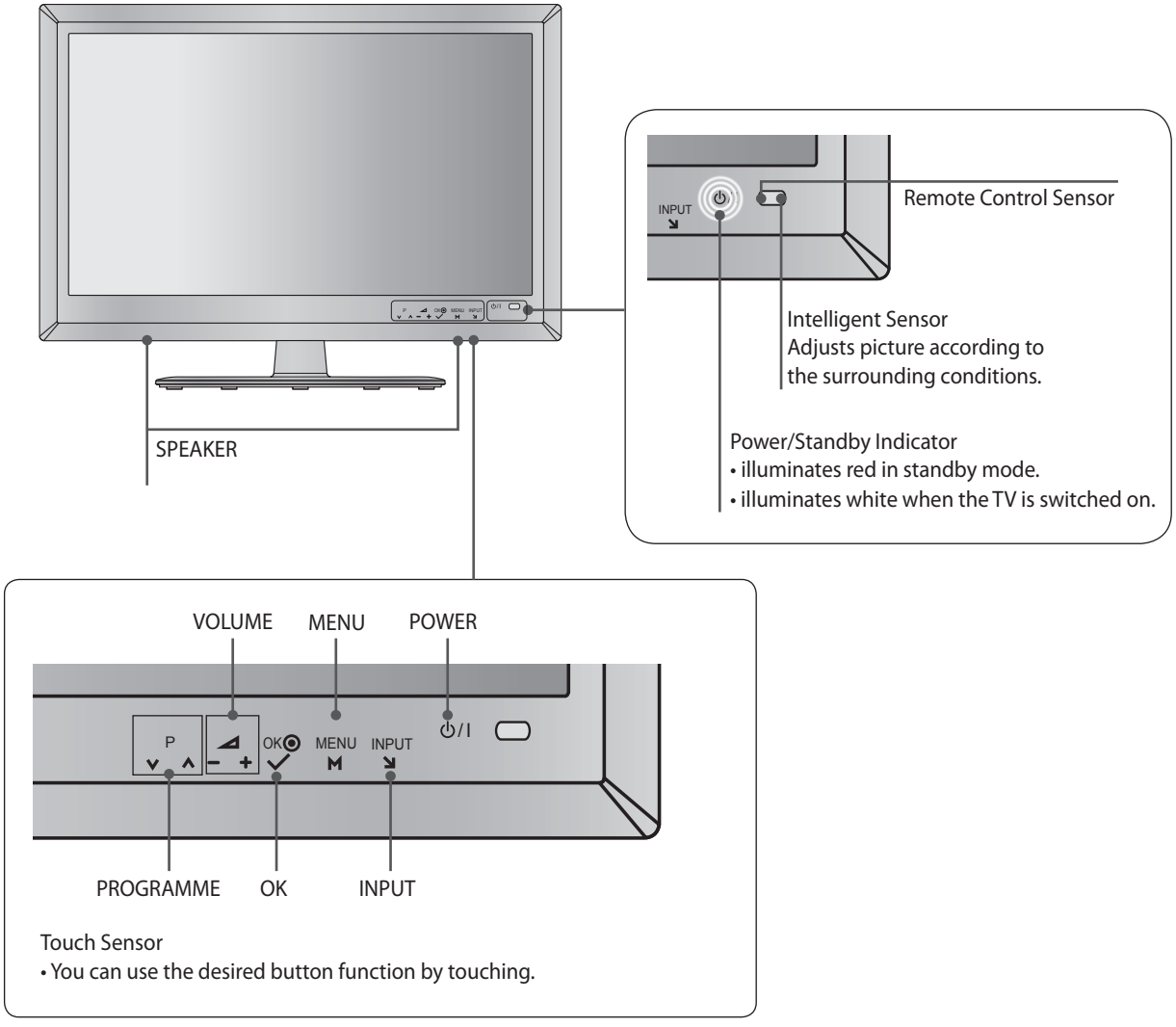
NOTE :

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

CAUTION :

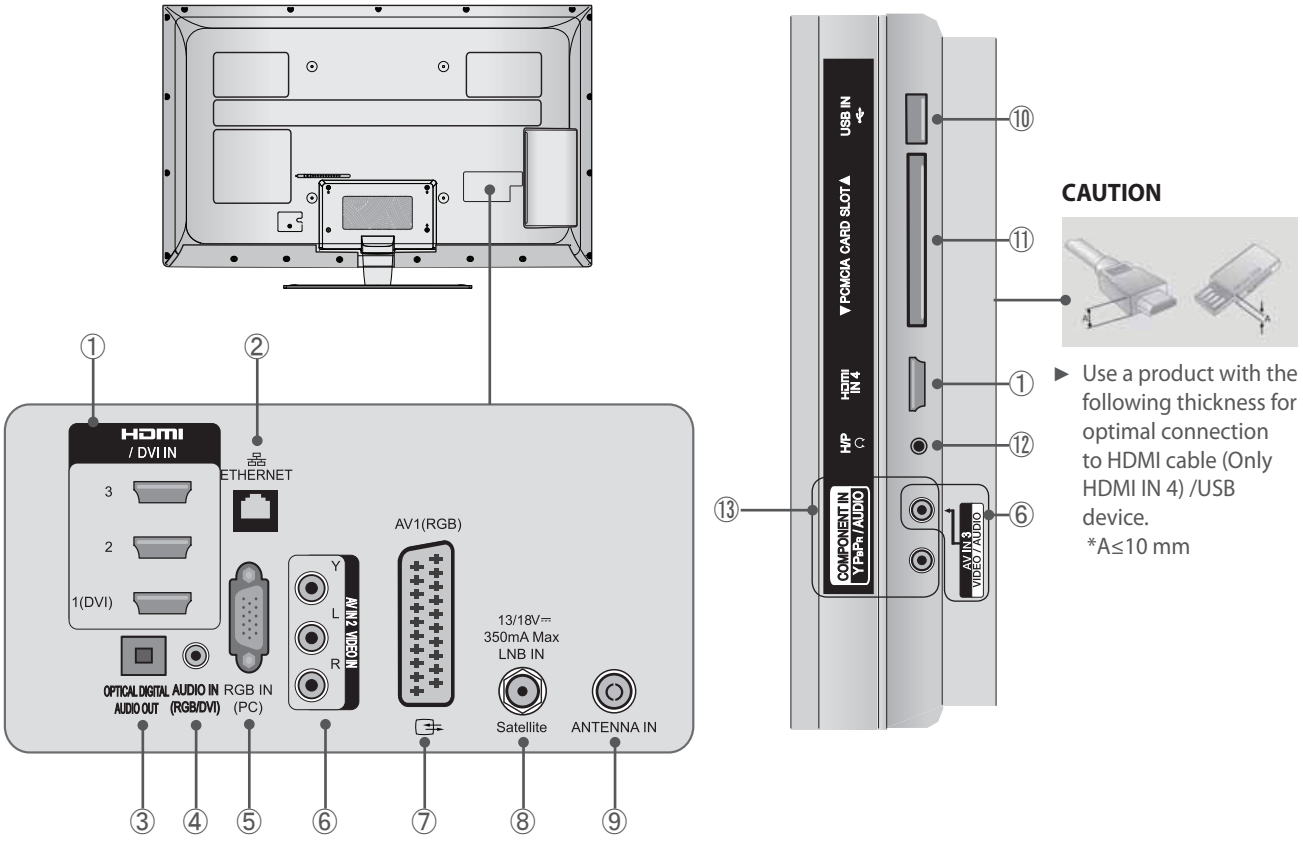
- ► Do not step on the glass stand or subject it to any impact. It may break, causing possible injury from fragments of glass, or the TV may fall.
- ► Do not drag the TV. The floor or the product may be damaged.

■ Image shown may differ from your TV.



BACK PANEL INFORMATION

■ Image shown may differ from your TV.



CAUTION

► Use a product with the following thickness for optimal connection to HDMI cable (Only HDMI IN 4) /USB device.
*A≤10 mm

① **HDMI/DVI IN Input**
Connect an HDMI signal to HDMI IN.
Or DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.

② **ETHERNET Input**
Connect a LAN cable.

③ **OPTICAL DIGITAL AUDIO OUT**
Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.
Note: In standby mode, these ports do not work.

④ **RGB/DVI Audio Input**
Connect the audio from a PC or DTV.

⑤ **RGB IN Input**
Connect the output from a PC.

⑥ **Audio/Video Input (AV2/AV3)**
Connect audio/video output from an external device to these jacks.

⑦ **Euro Scart Socket (AV1)**
Connect scart socket input or output from an external device to these jacks.

⑧ **Satellite LNB Input**
Connect a satellite antenna cable.

⑨ **Antenna Input**
Connect a RF antenna or cable to this jack.

⑩ **USB Input**
Connect USB storage device to this jack.

⑪ **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.)

⑫ **Headphone Socket**
Plug the headphone into the headphone socket.

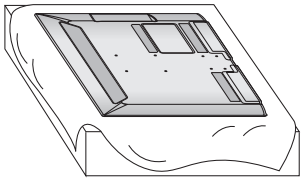
⑬ **Component Input**
Connect a component video/audio device to these jacks.

STAND INSTALLATION

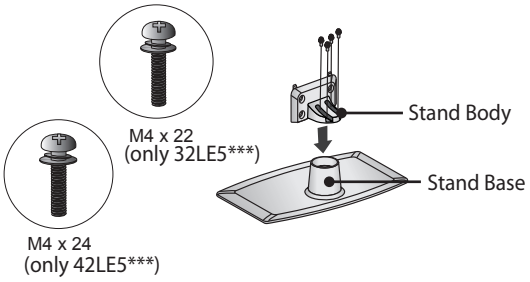
■ Image shown may differ from your TV.

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.

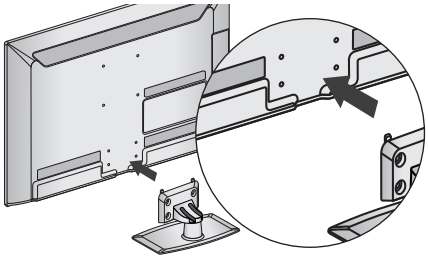
❶ Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



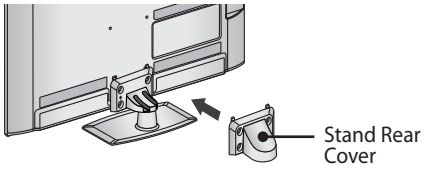
❷ Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



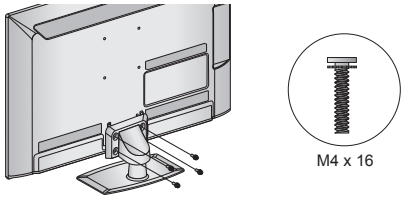
❸ Assemble the TV as shown.



❹ Assemble the parts of the **Stand Rear Cover** with the TV.



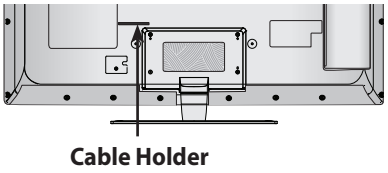
❺ Fix the 4 bolts securely using the holes in the back of the TV.



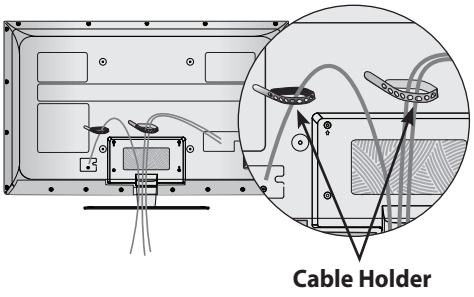
BACK COVER FOR WIRE ARRANGEMENT

■ Image shown may differ from your TV.

❶ Secure the power cord with the **Cable Holder** on the TV back cover.It will help prevent the power cable from being removed by accident.



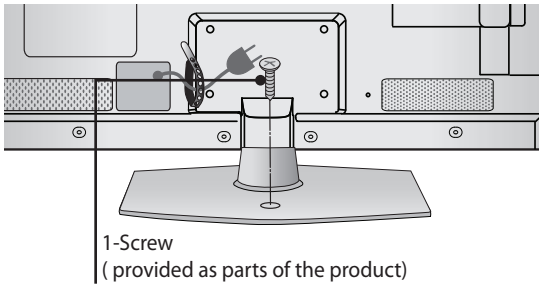
❷ After connecting the cables as necessary,install **Cable Holder** as shown and bundle the cables.

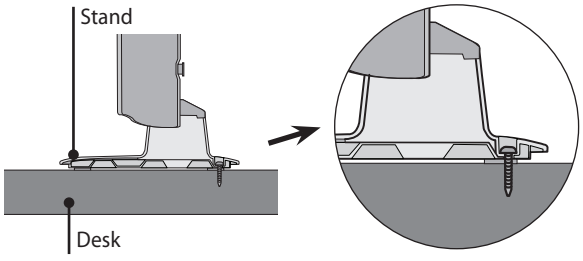


ATTACHING THE TV TO A DESK

■ Image shown may differ from your TV.

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





WARNING

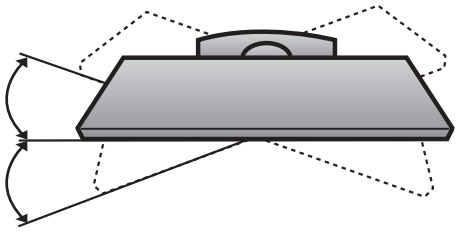
► To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury.

PREPARATION

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.



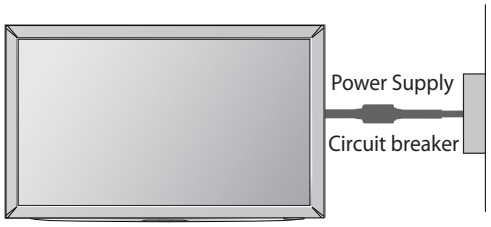
■ The TV can be installed in various ways such as on a wall, or on a desktop etc.

■ The TV is designed to be mounted horizontally.

EARTHING

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

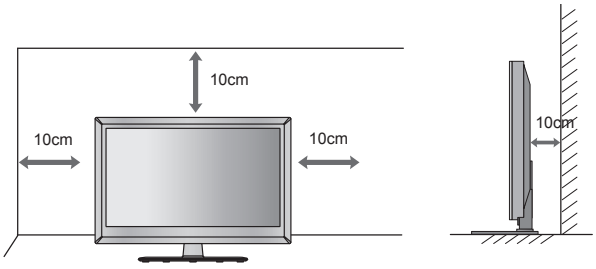
Do not try to earth the TV by connecting it to telephone wires, lightening rods or gas pipes.



DESKTOP PEDESTAL INSTALLATION

■ Image shown may differ from your TV.

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



WALL MOUNT : HORIZONTAL INSTALLATION

■ We recommend the use of a LG Brand wall mounting bracket when mounting the TV to a wall.

■ We recommend that you purchase a wall mounting bracket which supports VESA standard.

■ LG recommends that wall mounting be performed by a qualified professional installer.

NOTE

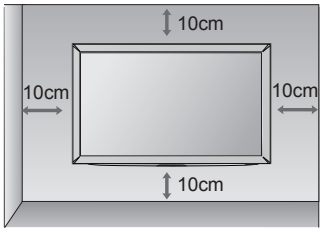
► Should Install wall mount on a solid wall perpendicular to the floor.

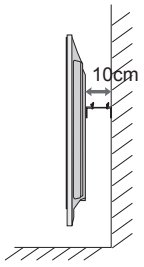
► Should use a special wall mount, if you want to install it to ceiling or slanted wall.

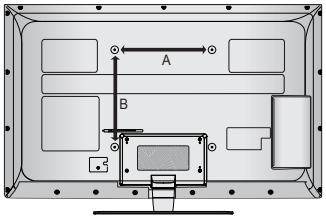
► The surface that wall mount is to be mounted on should be of sufficient strength to support the weight of TV set; e.g. concrete, natural rock, brick and hollow block.

► 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
32LE5***	200 * 100	M4	4
42LE5***	200 * 200	M6	4

KENSINGTON SECURITY SYSTEM

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

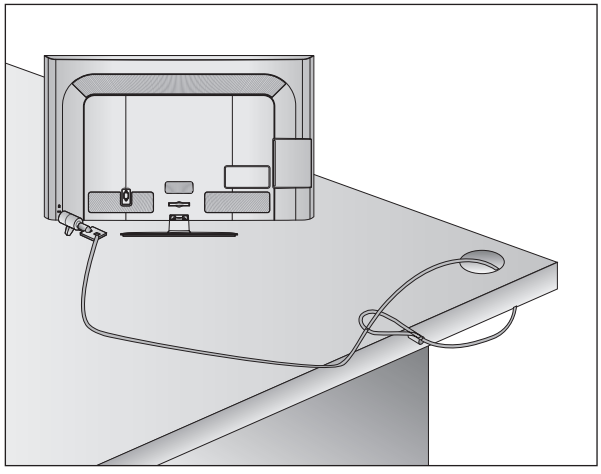
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

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

For further information, contact http://www.kensington. com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

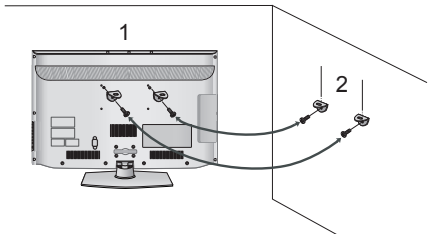
NOTE

- ► The Kensington Security System is an optional accessory.
- ► If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.
- ► Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- ► Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.



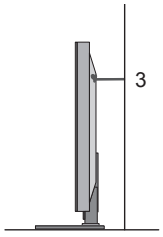
CAREFUL INSTALLATION ADVICE

- You should purchase necessary components to fix the TV safety and secure to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, by fixing it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that



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

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



❸ 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

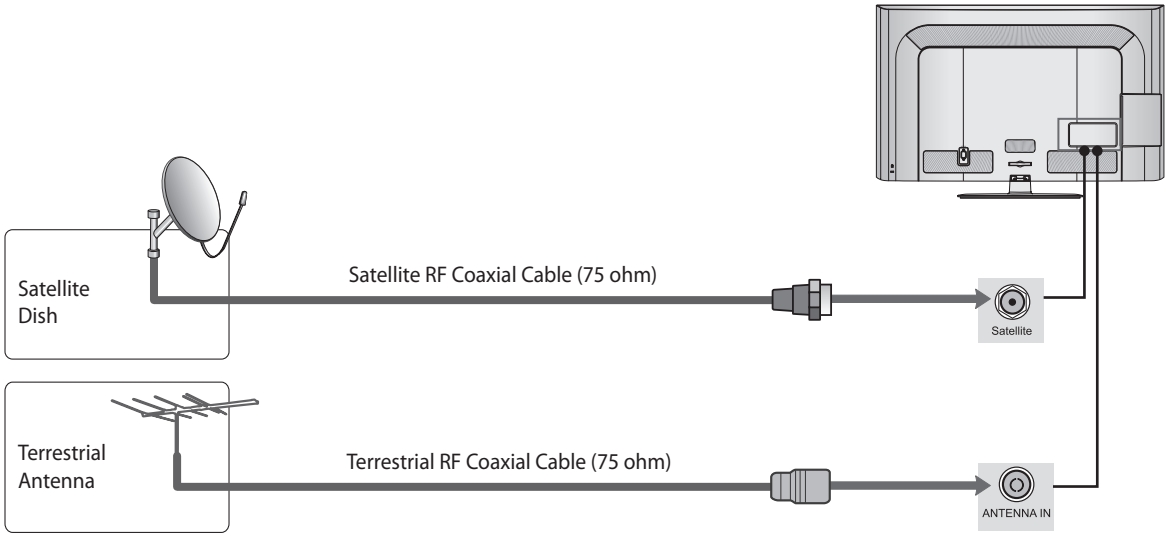
- ► When moving the TV undo the cords first.
- ► Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ► To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

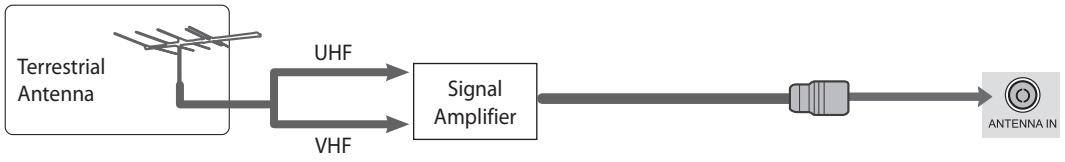
EXTERNAL EQUIPMENT SETUP

- To prevent damage do not connect to the mains outlet until all connections are made between the devices.
- This section mainly uses diagrams for the 32/42LD5** models.

Antenna Connection

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





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

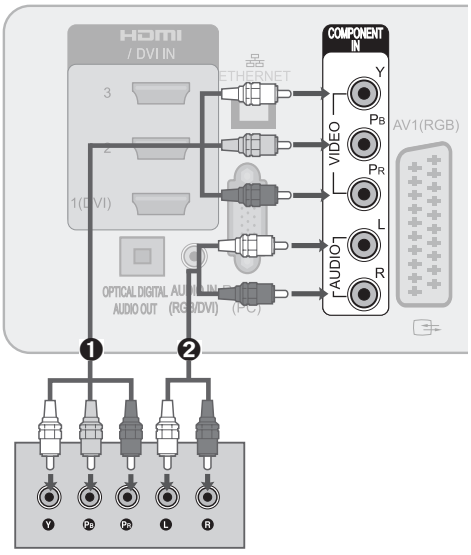
- To avoid damaging any equipment, never plug in any power cord until you have finished connecting all equipment.
- Image shown may differ from your TV.

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

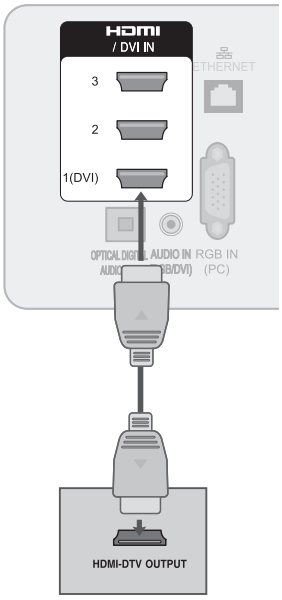
1. Connect the video outputs (Y, P_B, P_R) of the digital set top box to the **COMPONENT IN VIDEO** jacks on the TV.
2. Connect the audio outputs of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the TV.
3. Turn on the digital set-top box. (Refer to the owner's manual for the digital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



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



❶ Connect the digital set-top box to **HDMI/DVI IN 1**, **HDMI IN 2, HDMI IN 3** or **HDMI IN 4** jack on the TV.

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

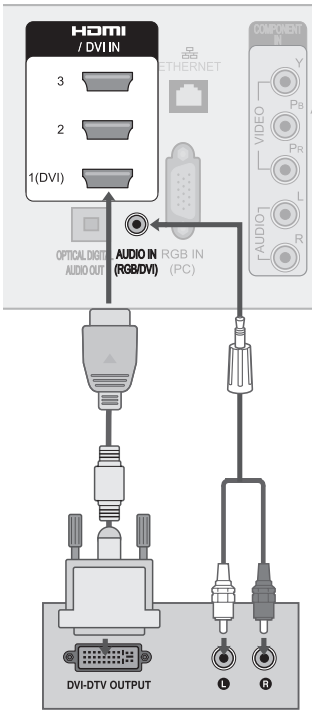
❸ Select **HDMI1**, **HDMI2, HDMI3** or **HDMI4** input source using the **INPUT** button on the remote control.

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.

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

Connecting with an HDMI to DVI Cable



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

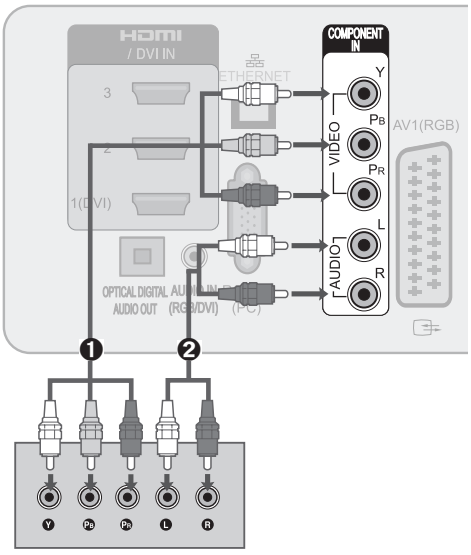
❷ Connect the audio output of the digital set-top box to the **AUDIO IN (RGB/DVI)** jack on the TV.

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

❹ Select **HDMI 1** input source using the **INPUT** button on the remote control.

DVD SETUP

Connecting with a Component Cable



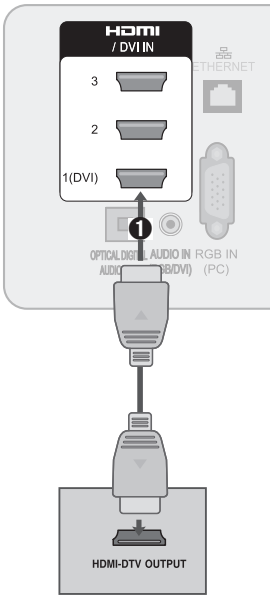
1. Connect the video outputs (Y, P_B, P_R) of the DVD to the **COMPONENT IN VIDEO** jacks on the TV.
2. Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the TV.
3. Turn on the DVD player, insert a DVD.
4. Select **Component** input source using the **INPUT** button on the remote 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	PB	PR
Video output ports on DVD player	Y Y Y Y	PB B-Y Cb Pb	PR R-Y Cr Pr

Connecting the HDMI Cable



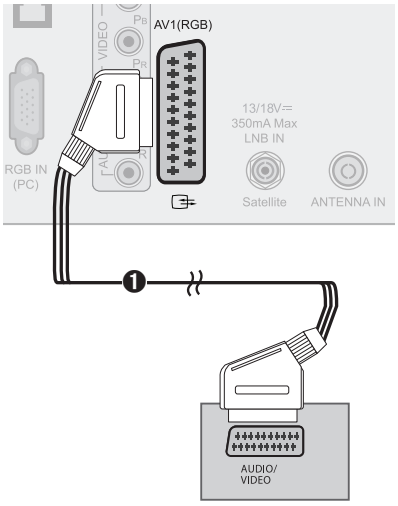
1. Connect the HDMI output of the DVD to the **HDMI/DVI IN 1**, **HDMI IN 2**, **HDMI IN 3** or **HDMI IN 4** jack on the TV.
2. Select **HDMI1**, **HDMI2**, **HDMI3** or **HDMI4** input source using the **INPUT** button on the remote control.
3. Refer to the DVD player's manual for operating instructions.

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.

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.
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	Input			Output
	Video	Audio	RGB	Video, Audio
AV1	O	O	O	Analogue TV, Digital TV

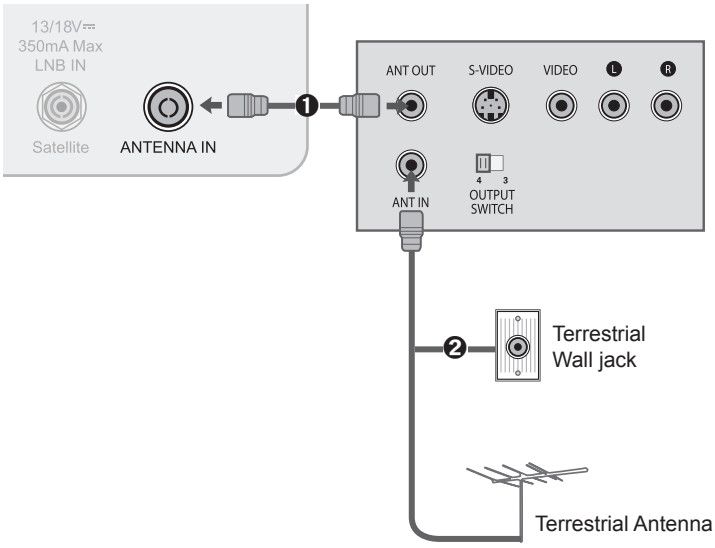
Output Type / Current input model	AV1 (TV Out)	AV1 (When DTV scheduled recording is in progress using recording equipment.)
Digital TV	Digital TV	O
Analogue TV, AV	Analogue TV	O (The input mode is converted to DTV.)
Component/RGB	Analogue TV	
HDMI	Analogue TV	

VCR SETUP

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

Connecting with a RF Cable

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

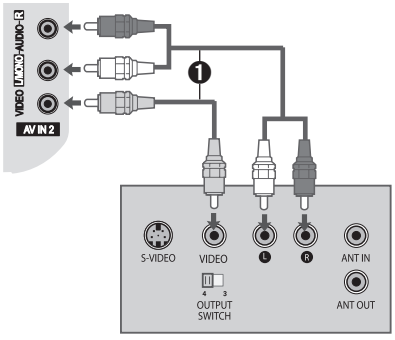


Connecting with a RCA Cable

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 **AV2** input source using the **INPUT** button on the remote control.

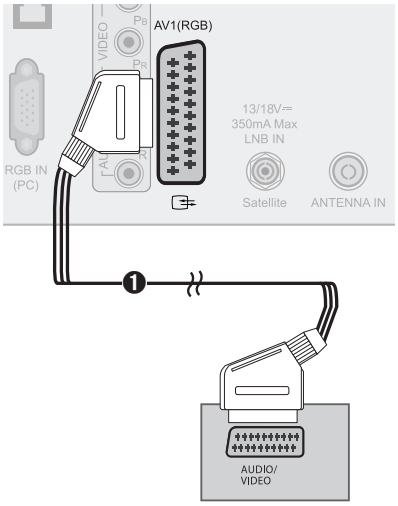
NOTE

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



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.

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.

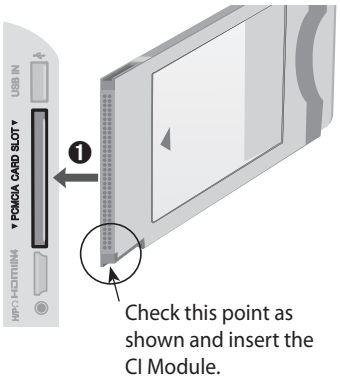
Scart	Input			Output
	Video	Audio	RGB	Video, Audio
AV1	O	O	O	Analogue TV, Digital TV

Output Type / Current input model	AV1 (TV Out)	AV1 (When DTV scheduled recording is in progress using recording equipment.)
Digital TV	Digital TV	O
Analogue TV, AV	Analogue TV	O (The input mode is converted to DTV.)
Component/RGB	Analogue TV	
HDMI	Analogue TV	

INSERTION OF CI MODULE

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

❶ Insert the CI Module to **PCMCIA** (Personal Computer Memory Card International Association) **CARD SLOT** of TV as shown.
For further information, see p.49.



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

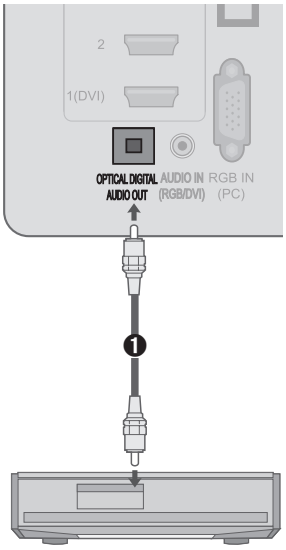
Sending the TV's digital audio signal to external audio equipment via the Digital Audio Output (Optical) port.

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).

❶ Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.

❷ Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.

❸ Set the "**TV Speaker - Off** " in the **AUDIO** menu.(▶p.101). Refer to the external audio equipment instruction manual for operation.



CAUTION

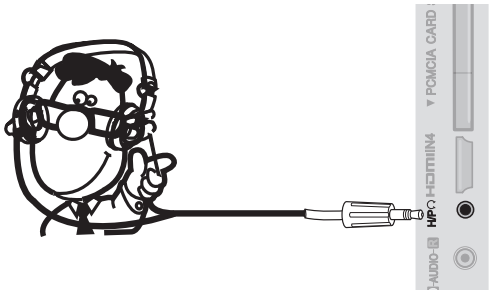
► Do not look into the optical output port. Looking at the laser beam may damage your vision.

HEADPHONE SETUP

You can listen the sound through the headphone.

❶ Plug the headphone into the headphone socket.

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

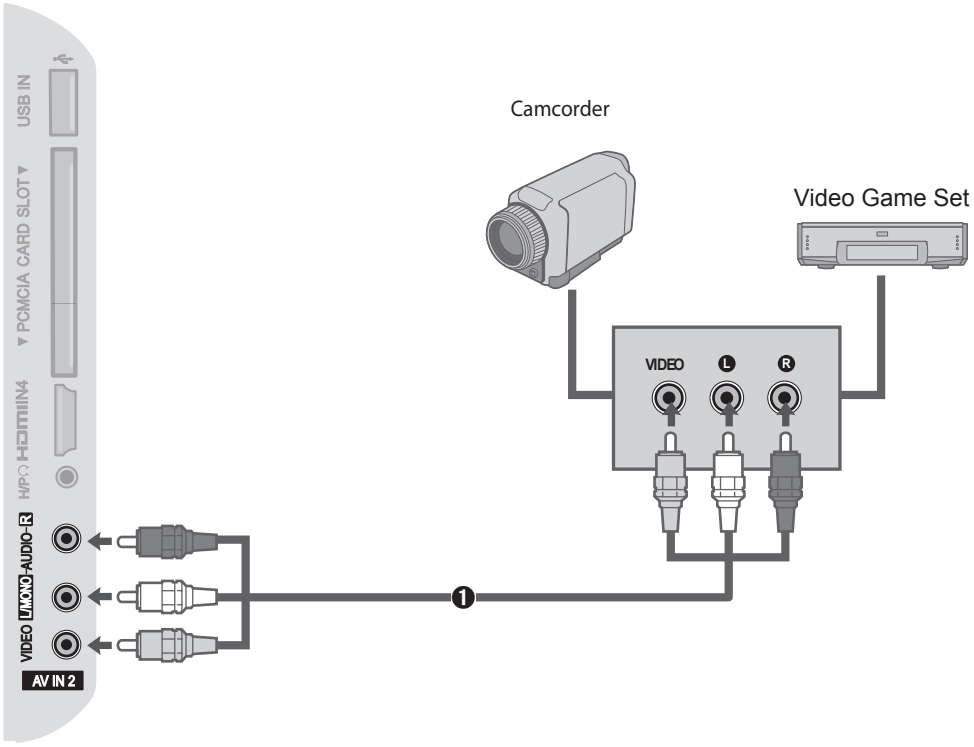


NOTE

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

EXTERNAL EQUIPMENT SETUP

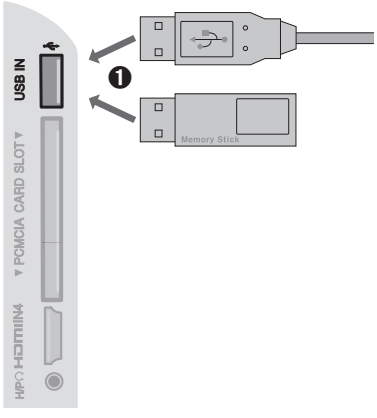
OTHER A/V SOURCE SETUP



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 **AV2** input source using the **INPUT** button on the remote control.
3. Operate the corresponding external equipment.
   (Refer to external equipment operating guide.)

USB SETUP

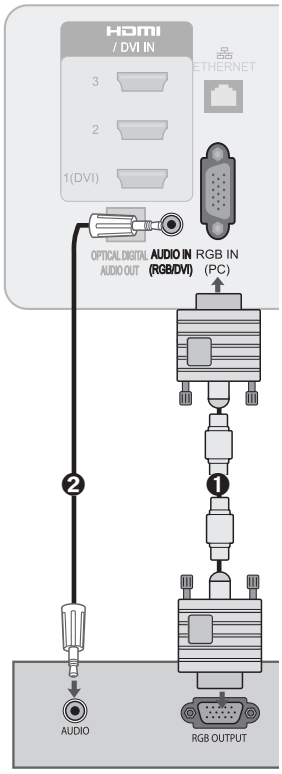
1. Connect the USB device to the **USB IN** jack on the side of the TV.
2. After connecting the **USB IN** jack, you use the **USB** function. (▶p.57)



PC SETUP

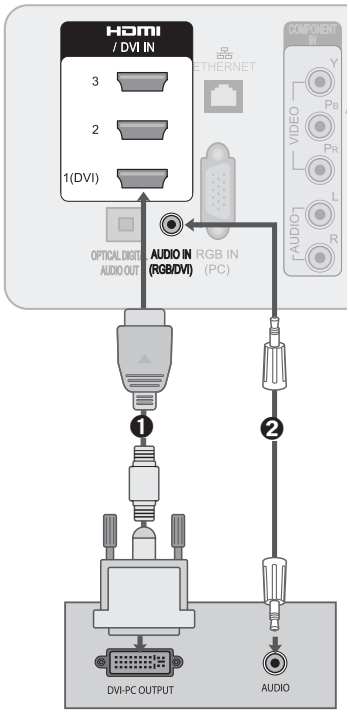
This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

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.

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

Component mode

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

HDMI1, HDMI2, HDMI3, HDMI4 -DTV mode

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

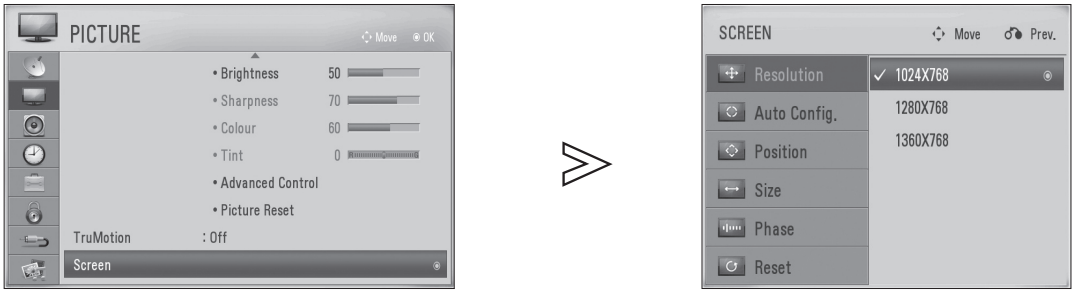
NOTE :

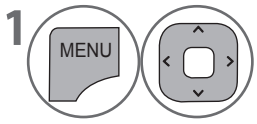
- ► Avoid keeping a fixed image on the TV's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ► There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC 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 1920 x 1080, 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.

Screen Setup for PC mode (In RGB mode only)

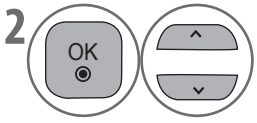
Selecting Resolution

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

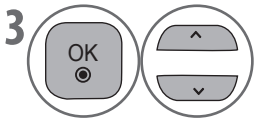




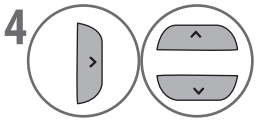
Select **PICTURE**.



Select **Screen**.



Select **Resolution**.



Select the desired resolution.

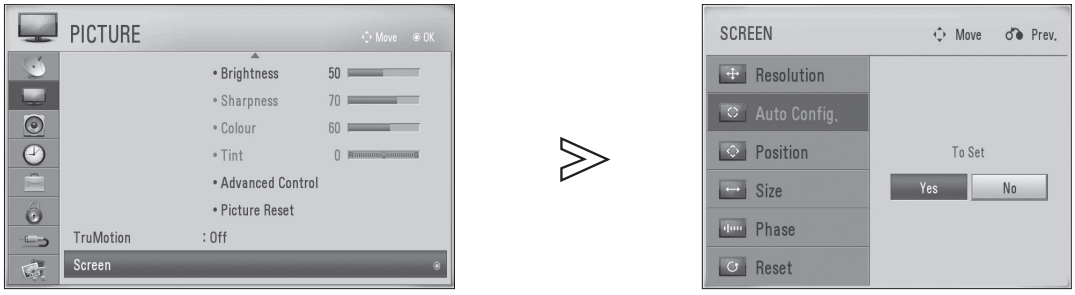
- The **Resolution** menu is disabled unless the resolution is set to 1024 x 768, 1280 x 768 or 1360 x 768.

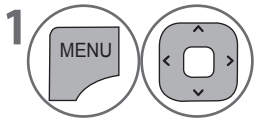
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

EXTERNAL EQUIPMENT SETUP

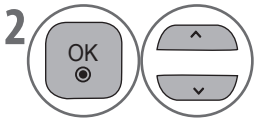
Auto Configure

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

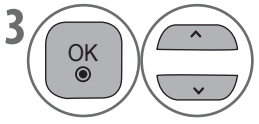




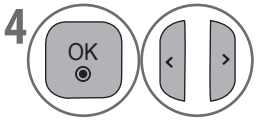
Select **PICTURE**.



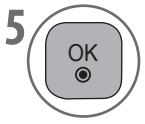
Select **Screen**.



Select **Auto Config.**.



Select **Yes**.



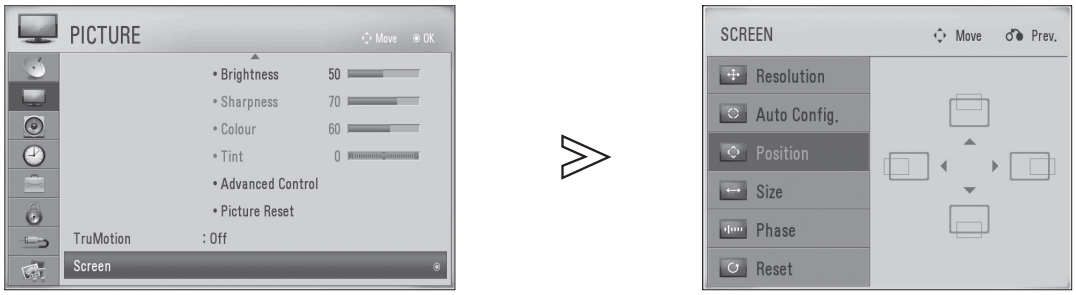
Run **Auto Config.**.

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

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

Adjustment for screen Position, Size, Phase

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



1 MENU

Select **PICTURE**.

2 OK

Select **Screen**.

3 OK

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

4

Make appropriate adjustments.

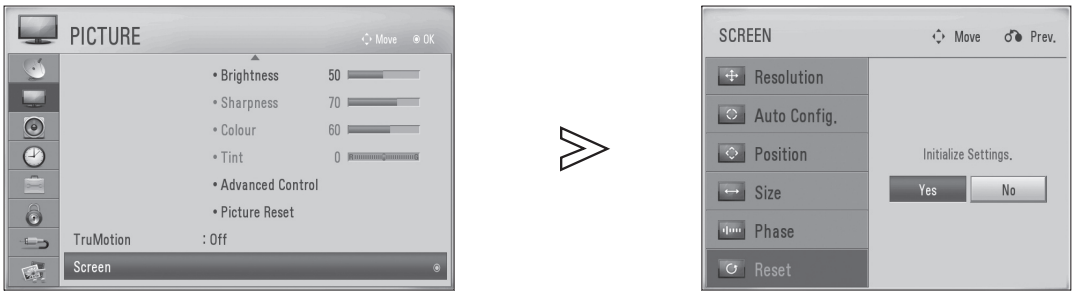
5 OK

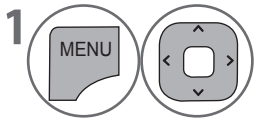
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

EXTERNAL EQUIPMENT SETUP

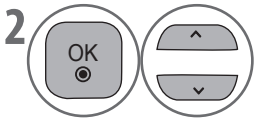
Screen Reset

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

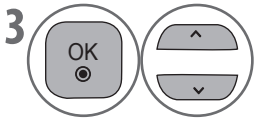


1 

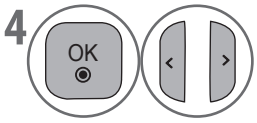
Select **PICTURE**.

2 

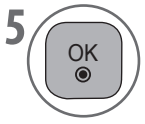
Select **Screen**.

3 

Select **Reset**.

4 

Select **Yes**.

5 

Run **Reset**.

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

WATCHING TV/PROGRAMME CONTROL

REMOTE CONTROL KEY FUNTIONS

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



⏻ (POWER)	Switches the TV on from standby or off to standby.
ENERGY SAVING	Adjust the Energy Saving mode of the TV. (▶ p.87)
AV MODE	It helps you select and set images and sounds when connecting AV devices.(▶p.54)
INPUT	Toggles between all AV inputs sequentially. (▶ p.53)
TV/RAD	Selects Radio, TV and DTV channel.

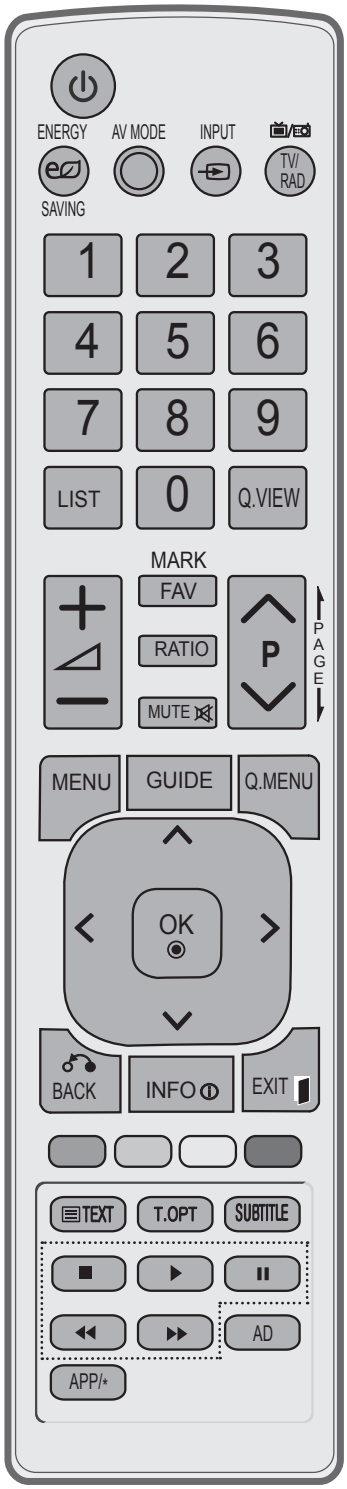
0 to 9 number button	Selects a programme. Selects numbered items in a menu.
LIST	Displays the programme table. (▶p.52)
Q.VIEW	Returns to the previously viewed programme.

MENU	Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu. (▶p.37)
GUIDE	Shows programme schedule.(▶p.79)
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.36)
BACK	Allows the user to move return one step in an interactive application, EPG or other user interaction function.
EXIT	Clears all on-screen displays and returns to TV viewing from any menu.
INFO ⓘ	Shows the present screen information.
THUMBSTICK (Up/Down/Left/Right)	Allows you to navigate the on-screen menus and adjust the system settings to your preference.
OK	Accepts your selection or displays the current mode.

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

❶	**TELETEXT BUTTONS**	These buttons are used for teletext. For further details, see the 'Teletext' section.(▶ p.115)
	SUBTITLE	Recalls your preferred subtitle in digital mode.

WATCHING TV / PROGRAMME CONTROL



VOLUME UP/DOWN Adjusts the volume.

FAV Displays the selected favourite programme.

MARK Check and un-check programmes in the USB menu.

RATIO Select your desired Aspect Ratio of picture. (▶ p.85)

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

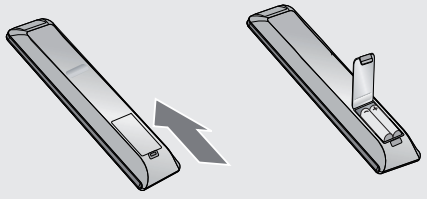
PAGE UP/DOWN Move from one full set of screen information to the next one.

MY MEDIA Menu control buttons Controls MY MEDIA menu (Photo List, Music List or Movie List).

AD Switches the Audio Description On or Off.

APP/* Displays MHP application information.

Installing Batteries



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

TURNING ON THE TV

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

❶ Firstly, connect the power cord correctly.
At this stage, the TV switches to standby mode. (The power indicator on the TV illuminates red.)

❷ In standby mode to turn TV on, press the ⏻, **INPUT** or **P** ∧ ∨ (Programme Up/Down) button on the TV or press the ⏻, **INPUT**, **P** ∧ ∨ or **NUMBER** button on the remote control and the TV will switch on.

Initial Setting

This step will guide you to easily set the optimal viewing mode and tune the available channels. When you turn on the TV for the first time after purchase or if you perform **Factory Reset** in **OPTION**, initial setting will start automatically.

Language
Select your desired language.

Mode Setting

- Select the mode for your environment. Each mode provides the optimal picture settings for each environment.
- Select **Home Use** to use the TV in home. (default)
- Select **Store Demo** to use the TV in store. Even if the user changes the picture setting, the TV will automatically reset to initial settings after a certain period of time.
- The mode (Home Use, Store Demo) can be changed in the **OPTION > Mode Setting** menu.

Tuning Mode

- Select the tuning mode to search the programmes you want.
- Select **Terrestrial** to find all terrestrial programmes.
- Select **Satellite** to find all satellite programmes.
- Select **Satellite & Terrestrial** to find both satellite and terrestrial programmes.
- **Satellite** and **Satellite & Terrestrial** lets you select **LNB Only** or **DiSEqC**.

NOTE:

► 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 tuning menus in **SETUP** to search for more channels.
► Press the **BACK** button to change the current OSD to the previous OSD.

PROGRAMME SELECTION

❶ Press the **P** ∧ ∨ (Programme Up/Down) or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

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

CI+ CAM

❶ Start-up Process

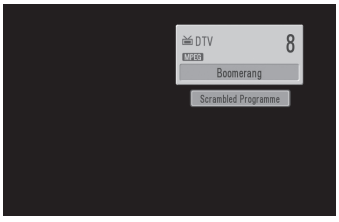
WHEN SWITCHING ON YOUR TV SET THE MESSAGE "SCRAMBLED PROGRAMME" APPEARS:

- 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.



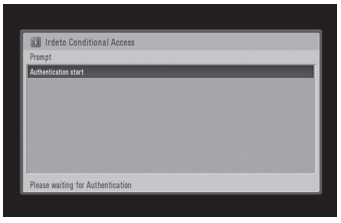
LG Initial Logo



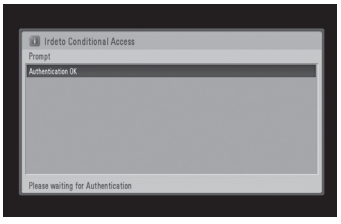
Channel Information



Scrambled Programme



Authentication Start



Authentication OK

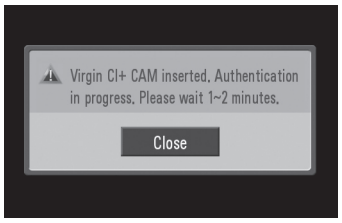


Audio/Video Display

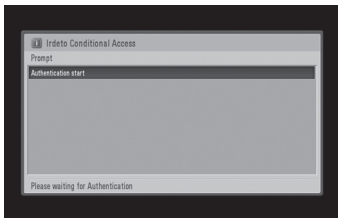
❷ CI+ CAM Authentication

WHEN CI+ CAM (CONDITIONAL ACCESS MODULE) IS INSERTED FOR THE FIRST TIME

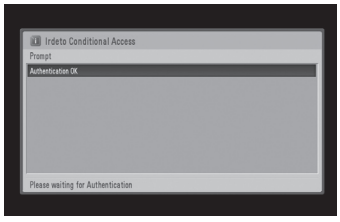
Authentication Success



When the CI+ CAM is inserted for the first time



Authentication Start



Authentication OK



Audio/Video Display

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.

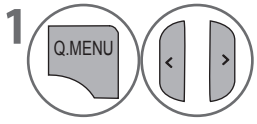
3. Remove the CI+ CAM and insert it again or turn the TV off and on.
The authentication will normally start.

QUICK MENU

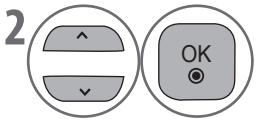
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
Q.Menu (Quick Menu) is a menu of features which users might use frequently.

	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.		**Audio** Selects the sound output.
	Energy Saving Selects your desired Energy Saving mode.		**Sleep Timer** Sets the sleep timer.
	Picture Mode Selects your desired Picture Mode.	PR	**Fav. On/Off** Add the programme to the favourite list.
	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.		**USB Eject** Select "Eject" in order to remove USB device.





Display each menu.

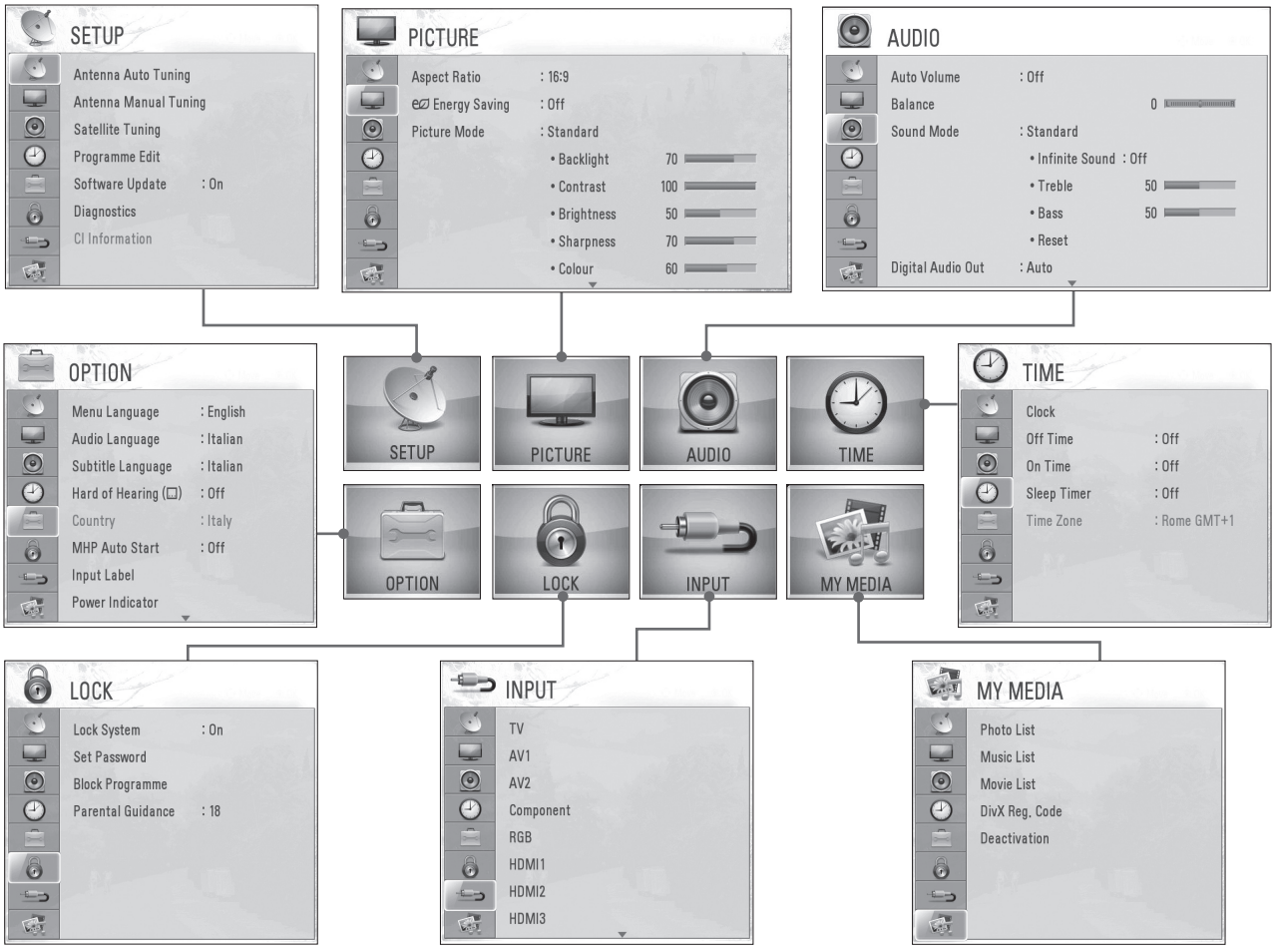


Select your desired source.

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

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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



1 MENU

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

2 OK

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

NOTE

► It is not possible to use **CI Information** in Analogue Antenna mode.

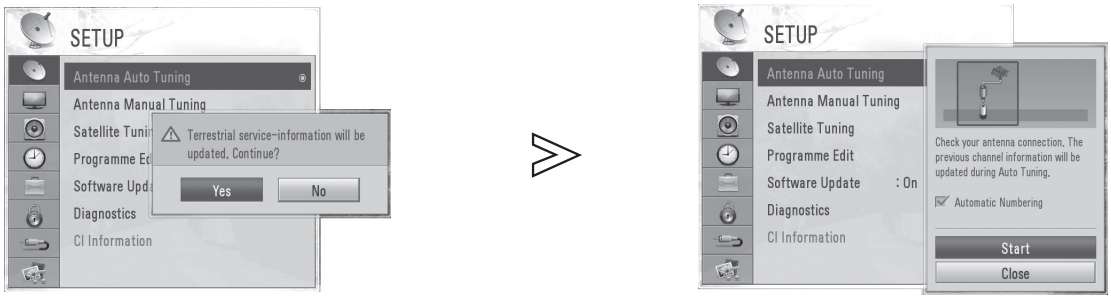
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

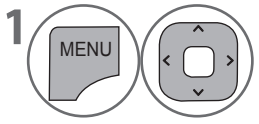
ANTENNA AUTO PROGRAMME TUNING

Use this to automatically find and store all terrestrial programmes.

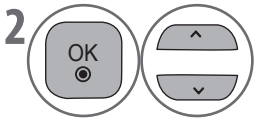
When you start auto programming, all previously stored service information will be deleted.

The maximum number of programmes that can be stored is 1098 (digital:999, analogue:99). But the number may differ slightly depending on broadcasting signals.

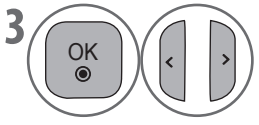




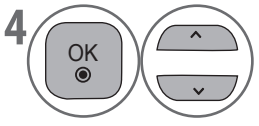
Select **SETUP**.



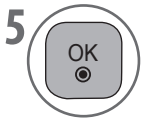
Select **Antenna Auto Tuning**.



Select **Yes**.



Select **Start**.



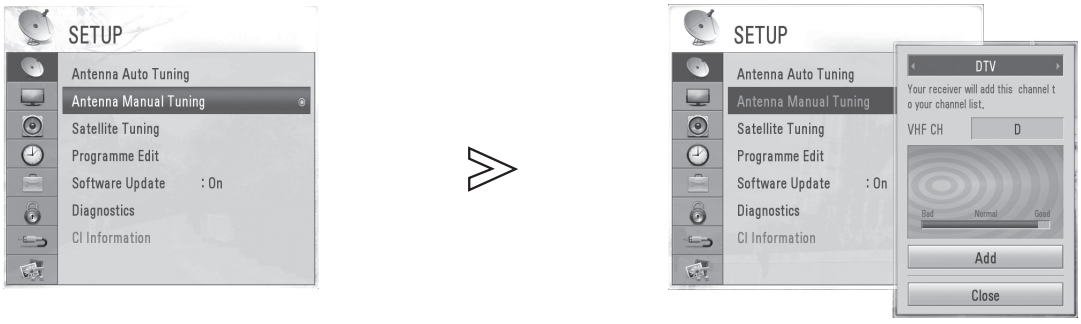
Run **Auto Tuning**.
The search results will appear.
The found programmes are automatically saved in order.

- 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.
- **Automatic Numbering**: You can set whether or not the channels are numbered automatically by broadcaster. (Supported only in country with LCN service)
- First tunes the digital TV and radio programmes, then analogue programmes.

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

ANTENNA MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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



1 MENU

Select **SETUP**.

2 OK

Select **Antenna Manual Tuning**.

3 OK

Select **DTV**.

4

Select the desired channel number.

5 OK

Select **Add** or **Update**.

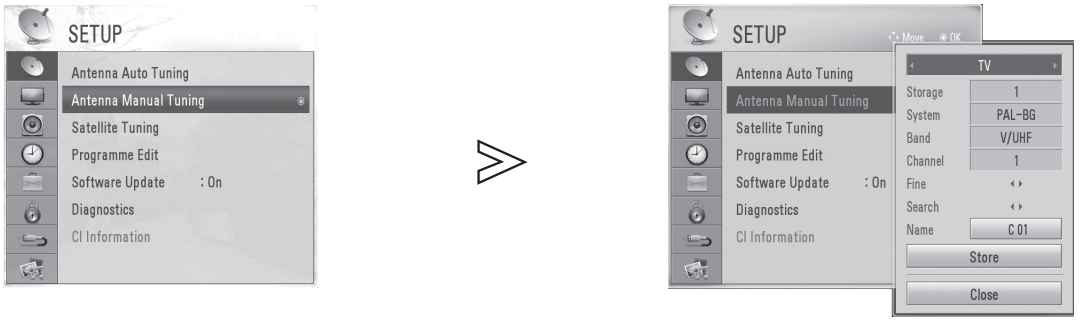
- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

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

WATCHING TV / PROGRAMME CONTROL

ANTENNA MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

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



1 MENU — Select **SETUP**.

2 OK — Select **Antenna Manual Tuning**.

3 OK — Select **TV**.

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

5 — Select a TV system.

6 — Select **V / UHF** or **Cable**.

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

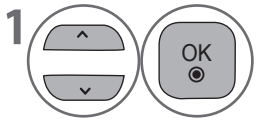
8 — Commence searching.

9 OK — Select **Store**.

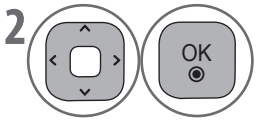
- If you have selected **On** in **LOCK > Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- BG : PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa / Australia)
  I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
  DK : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS
- To store another channel, report steps 4 to 9.

■ **Assigning a station name**

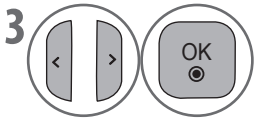
You can assign a station name with five characters to each programme number.



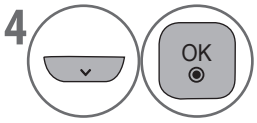
Select **Name**.



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**.



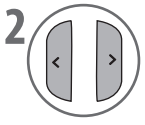
Select **Store**.

■ **Fine Tuning**

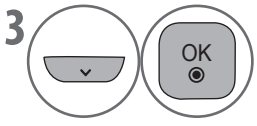
Normally fine tuning is only necessary if reception is poor.



Select **Fine**.



Fine tune for the best picture and sound.

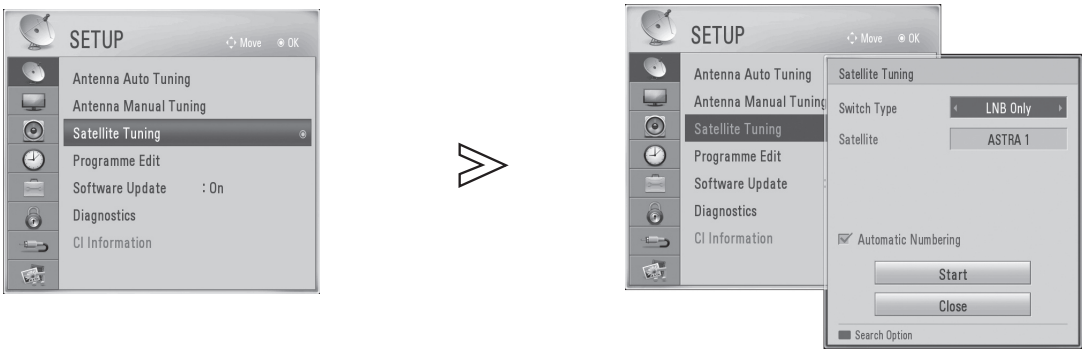


Select **Store**.

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

SATELLITE TUNING (LNB ONLY)

Satellite Tuning lets you find and store all available satellite programmes.



1 MENU

Select **SETUP**.

- 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 **RED** button in satellite tuning to enter search options such as network information, scramble type or programme type.

2 OK

Select **Satellite Tuning**.

3 OK

Select **Switch Type** and select **LNB Only**.
Every time you change the switch type, the previous antenna setting will be deleted.

4 OK

Select **Satellite**.

5 OK or 1 2 3 4 5 6 7 8 9 0

Select a satellite and set the **LNB Frequency**, **22Khz Tone** and **Transponder**.

6 OK

Select **Close**.

7 OK

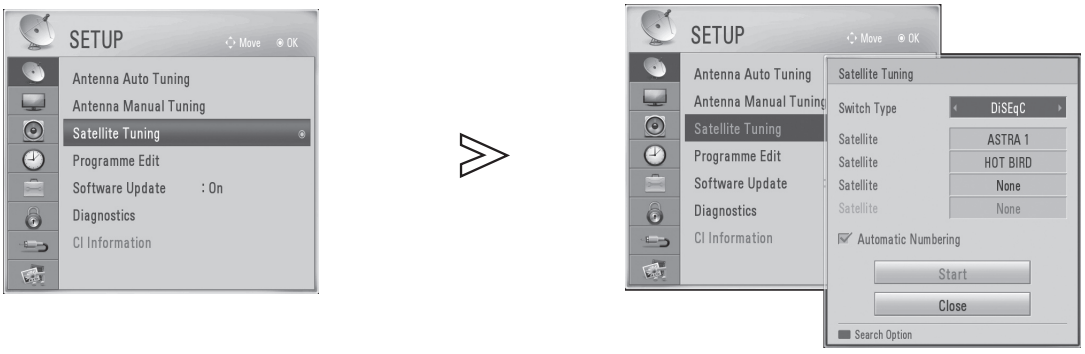
Select **Start**.

8 OK

The search results will appear.
The found programmes are automatically saved in order.

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

SATELLITE TUNING (DiSEqC)



1 MENU

Select **SETUP**.

2 OK

Select **Satellite Tuning**.

- 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 **RED** button in satellite tuning to enter search options such as network information, scramble type or programme type.
- Press the **RED** button in satellite setting to go to Transponder Setting.

3 OK

Select **Switch Type** and select **DiSEqC**.
Every time you change the switch type, the previous antenna setting will be deleted.

4 OK

Select **Satellite**.

5 OK or 1 2 3 4 5 6 7 8 9 0

Select a satellite and set **DiSEqC**, **LNB Frequency**, **22Khz Tone** and **Transponder**. You can add up to four satellites.

6 OK

Select **Close**.

7 OK

Select **Start**.

8 OK

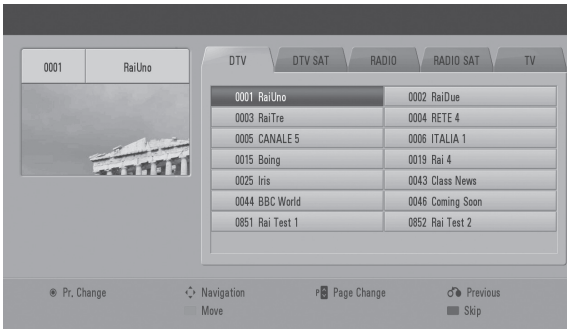
The search results will appear.
The found programmes are automatically saved in order.

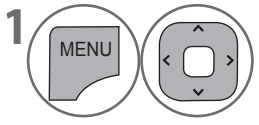
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

PROGRAMME EDIT

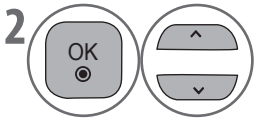
This function enables you to delete, move or skip the programmes you want.
You can change the programme number using "Move"function, if "Automatic Numbering" is unchecked when you start Auto Tuning.



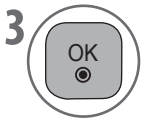




Select **SETUP**.



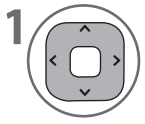
Select **Programme Edit**.



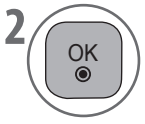
Enter the **Programme Edit**.

- 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 the channel has the LCN, the **Move** function will not work.

■ **Changing a programme**



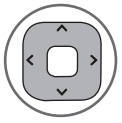
Select a programme you want to watch.



Switch to the selected programme.

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

■ Skipping a programme

1 

Select a programme you want to skip.

2 BLUE

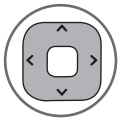
Turn the programme number to blue.

3 BLUE

Release.

- When programmes are to be skipped, the skipped programme shows in grey and these programmes will not be selected by the **P**∧∨ buttons during TV viewing.
- If you wish to select a skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the programme edit or EPG.

■ Deleting a programme (only for analogue programmes)

1 

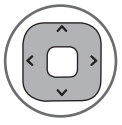
Select a programme you want to delete.

2 RED

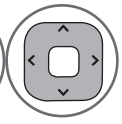
Delete the selected programme.

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

■ Moving a programme

1 

Select the programme you want to move.

2 GREEN 

Shift the cursor to the position you want.

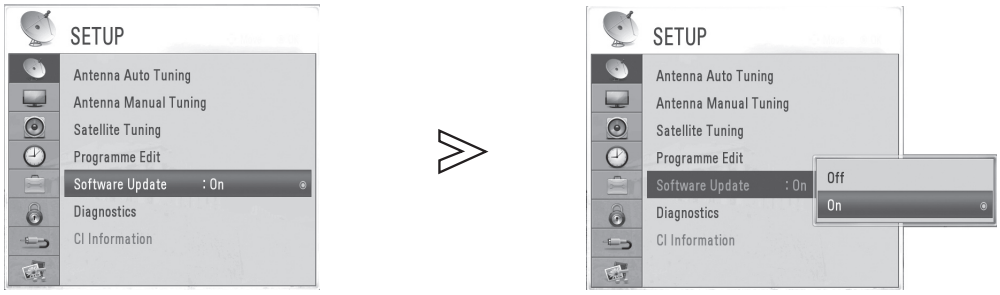
3 GREEN

Move the selected programmes to the new location.

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

SOFTWARE UPDATE

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.



1 MENU

Select **SETUP**.

2 OK

Select **Software Update**.

3 OK

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

- If you select **On**, the TV will automatically search the new software in regular. Refer to "When detecting new software". (▶p.47)

4 OK

Save.

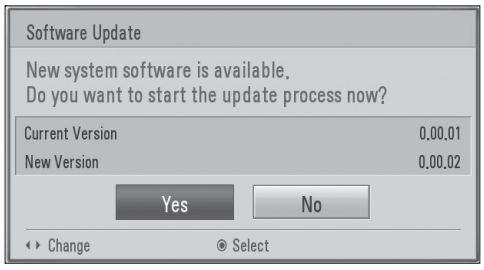
- If you have selected **On** in **LOCK** > **Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.

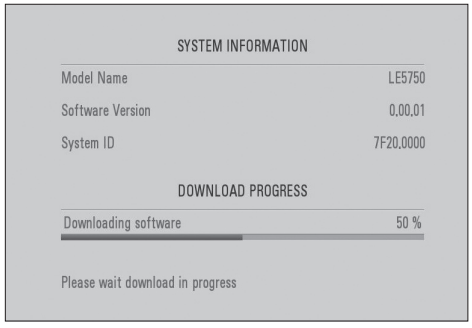
During Progress of a Software Update, please note the following:

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

* WHEN DETECTING NEW SOFTWARE





❶ When you turn on the TV after new software is detected, the software update message will be displayed.

❷ Select **Yes** using the <> button and press the **OK** button to start the software update.

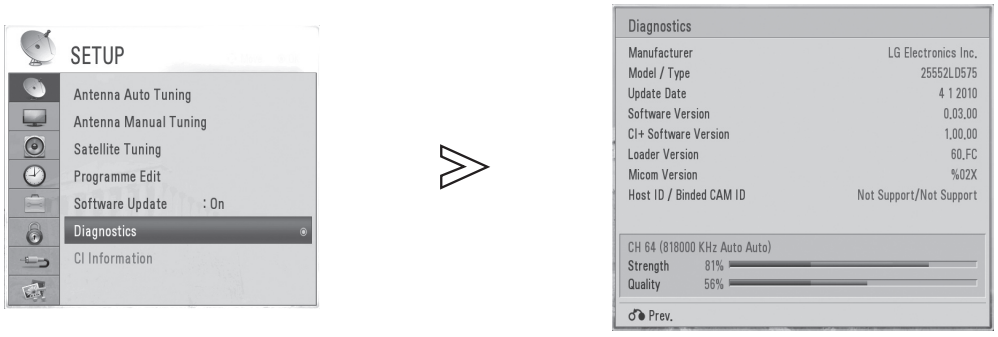
- Select **No** and press the **OK** button to return to the previous menu without updating.

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 automatically.

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.



1 MENU

Select **SETUP**.

2 OK

Select **Diagnostics**.

3 OK

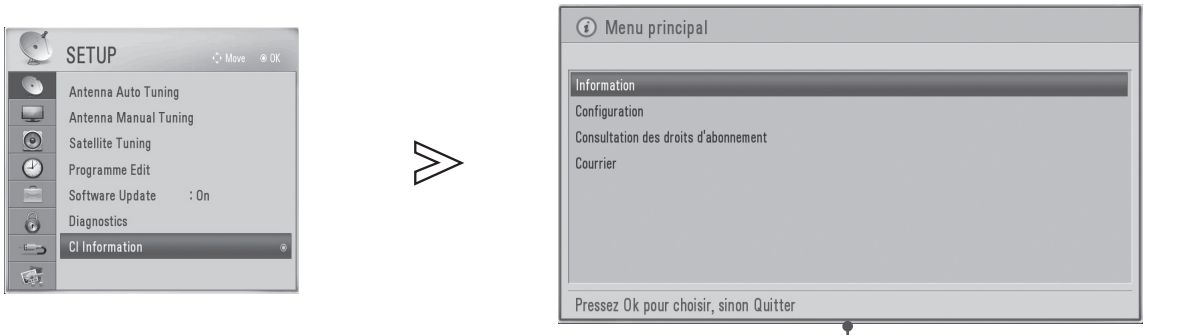
Display the **Diagnostics**.
The system status information will be displayed.

- Strength and quality disappear in Analogue mode.

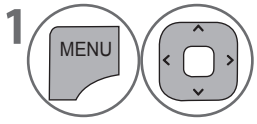
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

CI INFORMATION (IN DIGITAL MODE ONLY)

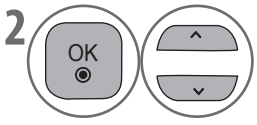
This function enables you to watch some encrypted digital terrestrial services (pay services). If you remove the CI Module, you cannot watch pay services.
When the module is inserted into the CI slot, you can access the module menu.
To purchase a module and smart card, contact your dealer. Do not repeatedly 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.
When using a CAM(Conditional Access Module), please make sure it meets fully the requirements of either DVB-CI or CI plus.



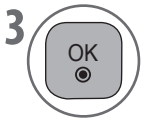
- This OSD is only for illustration and the menu options and screen format will vary according to the Digital pay services provider.
- It is possible for you to change CI (Common Interface) menu screen and service by consulting your dealer.



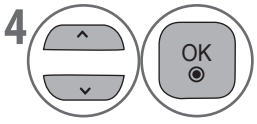
Select **SETUP**.



Select **CI Information**.



Display the **CI Information**.

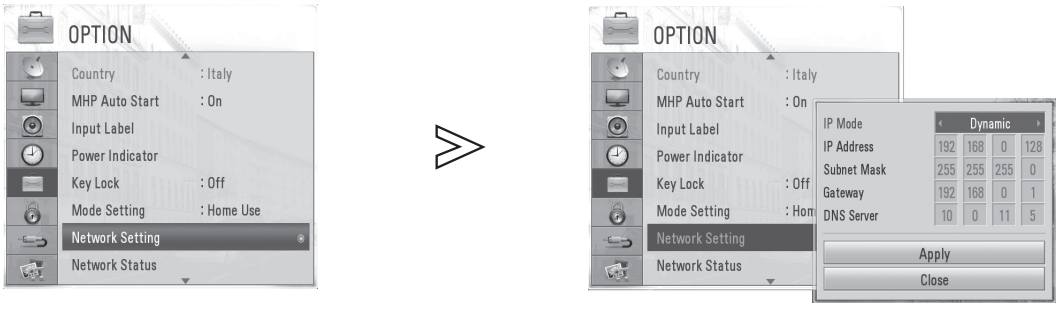


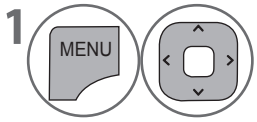
Select the desired item:
Module information, smart card information, language, or software download etc.

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

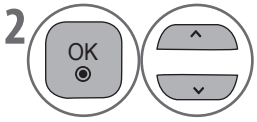
NETWORK SETTING (IN DIGITAL MODE)

The function enables you to view or set the network connection information for the MHP application services.
Ensure that the TV is correctly connected to the local area network (LAN) and can access the internet.



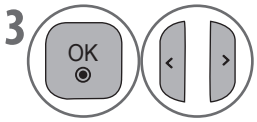


Select **OPTION**.

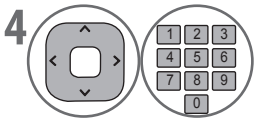


Select **Network Setting**.
- Select **Network Status** to view the network connection status.

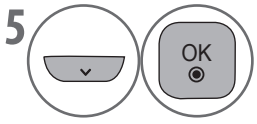
- If you have selected **On** in **LOCK** > **Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- Most users use a router or modem that has a DHCP server function can automatically be allocated an IP address.
- Connected will appear when internet is successfully connected.
- MAC Address is a unique address that identifies your TV's hardware in the network.



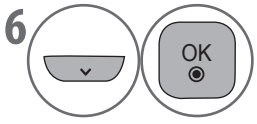
Select **Dynamic** or **Static**.
If you use a router or modem that has a DHCP (Dynamic Host Configuration Protocol) server function, select **Dynamic**. The IP address will automatically be determined.
If there is no DHCP server on the network and you want to set the IP address manually, select **Static**.



When selecting **Static**, enter values for IP Address, Subnet Mask, Gateway and DNS Server.



Select **Apply**.

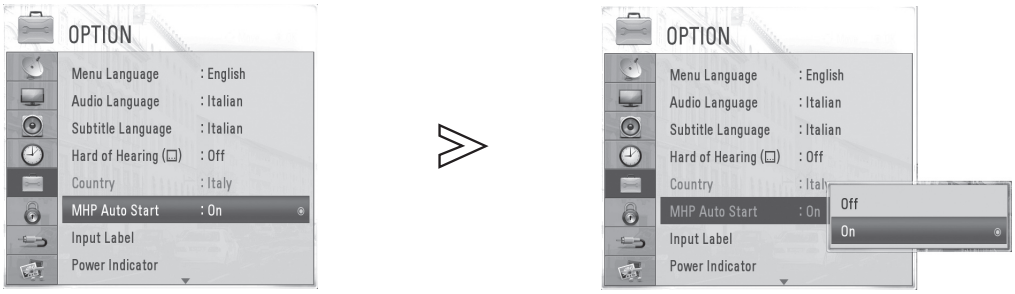


Select **Close**.

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

MHP AUTO START

You can set whether to start the MHP applications automatically or manually in channels that contain MHP applications.



1 MENU

Select **OPTION**.

2 OK

Select **MHP Auto Start**.

3 OK

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

4 OK

Save.

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

SELECTING THE PROGRAMME LIST

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

Colour Button	Group	Programmes
RED	**My TV**	Display the list of all TV or Radio programmes.
GREEN	**Favourite**	Display the list of all favourite programmes.
YELLOW	**HDTV**	Display the list of all HDTV programmes.
BLUE	**Scrambled**	Display the list of programmes classified by CAS types.

■ **Displaying the List**

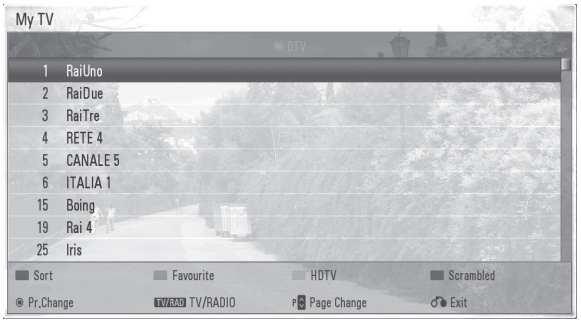
LIST — Display or exit the programme list.

OK — Switch to the selected programme.

P (PAGE) — Change the page.

TV/RAD — Switch between TV and Radio groups.

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.



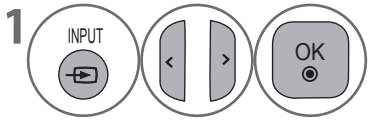
- You can directly display or exit the favourite programme list by pressing the **FAV** button.
- You can sort the programmes numerically or alphabetically in each group by pressing again the same colour button. (Except for Favourite group and Scrambled group)

INPUT LIST

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



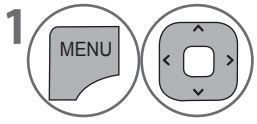
■ **Using INPUT button**



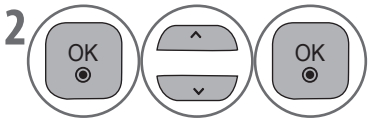
Select the input source.

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

■ **Using MENU button**



Select **INPUT**.



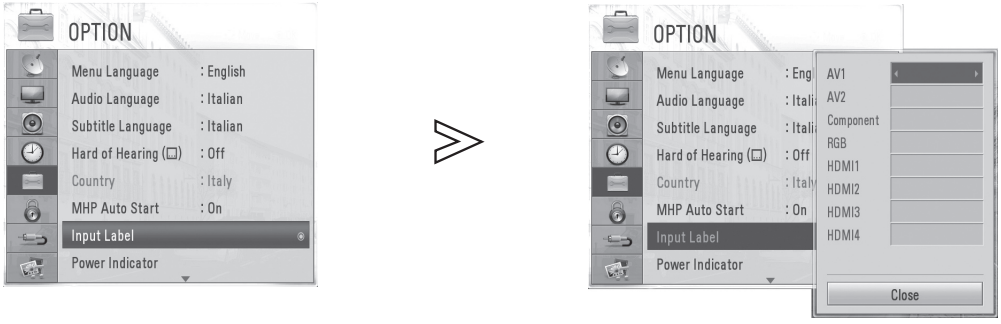
Select the input source.

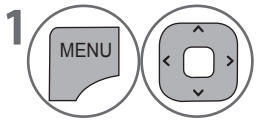
- **TV** : Select it when watching the TV/Radio.
- **AV1, AV2, AV3** : Select it when watching the VCR or external equipment.
- **Component** : Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** : Select it when using PC depends on connector.
- **HDMI1, HDMI2, HDMI3, HDMI4** : Select it when using DVD, PC or Digital set-top box depend on connector.

WATCHING TV / PROGRAMME CONTROL

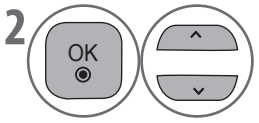
INPUT LABEL

Selects a label for each external input source.

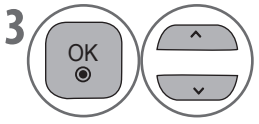




Select **OPTION**.



Select **Input Label**.



Select the source.

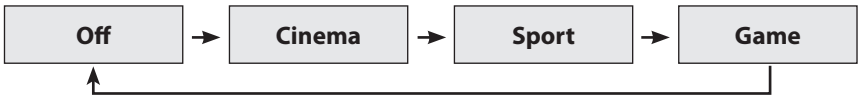


Select the label.

- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** 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. (▶p.88)

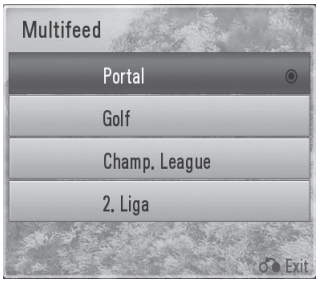


- If you select **Cinema** mode in AV mode, **Cinema** mode will be selected both for **Picture Mode** and **Sound Mode** in **PICTURE** menu and **AUDIO** menu respectively.
- If you select **"Off"** in AV mode, the picture and image which you initially set will be selected.

MULTIFEED

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.

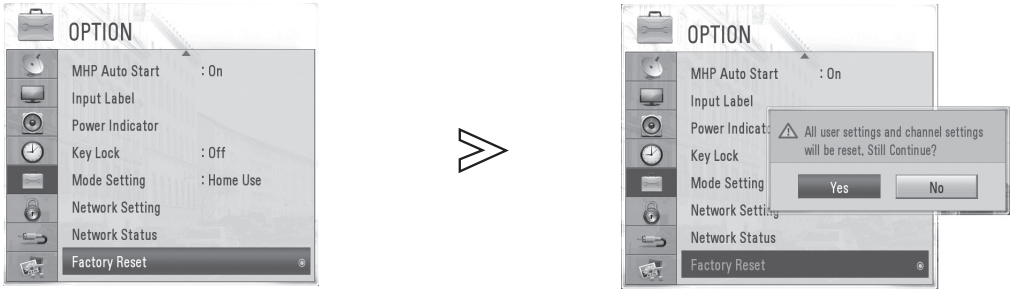


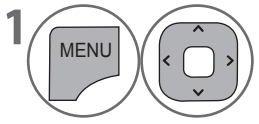
1 RED — Display the Multifeed popup.

2 OK — Select an option you want.

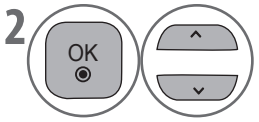
INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

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.

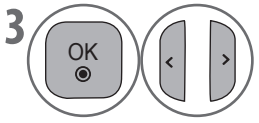




Select **OPTION**.



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 0325 to reset your password.

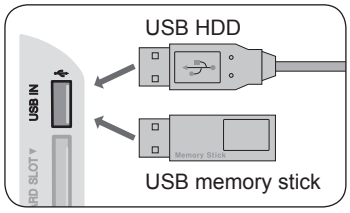
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

TO USE A USB DEVICE

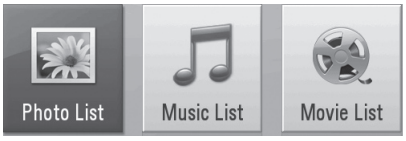
When you connect a USB device, this pop up menu is displayed, automatically.
"POP UP MENU" will not be displayed while the OSD including Menu, EPG or Schedule list is activated.
When the Pop Up menu does not appear, you can select Music List, Photo List or Movie List in the MY MEDIA menu.
In USB device, you can not add a new folder or delete the existing folder.

---

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



2 Select **Photo List**, **Music List** or **Movie List**.



3 OK

- Only photo(JPEG), music (MP3) and movie (DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,TS,TRP,TP) are supported.

When removing the USB device
Select the USB EJECT menu before removing the USB device.

1 Q.MENU

Select **USB Eject**.

2 OK

TO USE A USB DEVICE

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, image files or movie files.
- ► Please use only a USB storage device which was formatted as a FAT32 file system, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- ► Please connect power to a USB storage device (over 0.5A) 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.
- ► 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 1TB or less for a USB external hard disk and 32GB or less for USB memory.
- ► Any device with more than the recommended capacity may not work properly.
- ► I f the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source. - Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- ► If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- ► If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.
- ► USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- ► Maximum Files/Folder: Less than 1000 (total number of files and folders)

PHOTO LIST

You can view photo files on USB storage device.

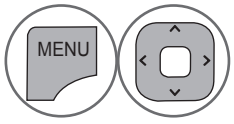
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

When you are watching the photo by the Photo List function, you can not change the picture mode.

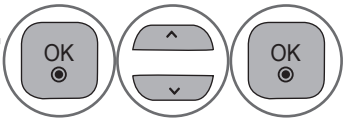
PHOTO(*.JPEG) supporting file
Baseline: 64 x 64 to 15360 x 8640
Progressive: 64 x 64 to 1920 x 1080

- 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 predefined icon.

Screen Components

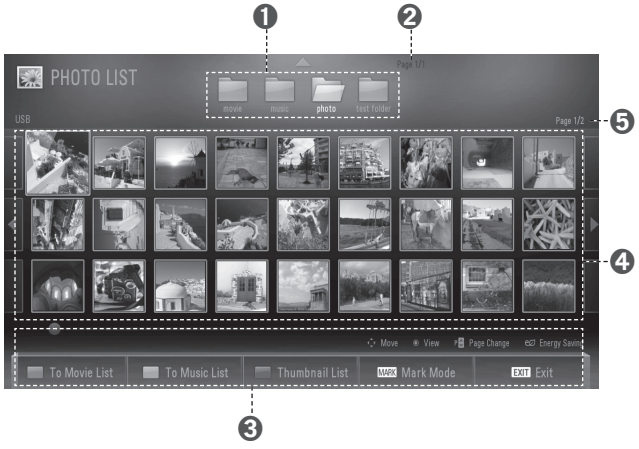
1 

Select **MY MEDIA**.

2 

Select **Photo List**.

❶ Moves to upper level folder
❷ Current page/Total pages
❸ Corresponding buttons on the remote control
❹ Contents under the folder focused on ❶
❺ Current page/ total pages of contents under the folder focused on ❶



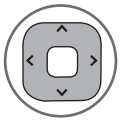
TO USE A USB DEVICE

Photo Selection

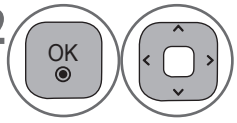
Mark Mode





1 

Select the target folder or drive.

2 

Select the desired photos.

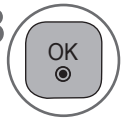
3 

Photo files are displayed.

- Use the **P** ∧ ∨ button to navigate in the photo page.
- Use the **MARK** button to convert to **Mark Mode**. Use the **OK** button to mark or unmark a photo. Press the **YELLOW** button to display the marked photo file. 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.

Using the remote control

	Photo List	Photo List (Mark Mode)
RED	Not available.	Unmark all marked photo files.
GREEN	Convert to **Movie List**.	Mark all photo files on the screen.
YELLOW	Convert to **Music List**.	Display the marked photo file(s).
BLUE	A method to view in 5 large thumbnail or simple list.	
MARK / FAV	Convert to **Mark Mode**.	Exit the **Mark Mode**.
EXIT	Return to normal TV viewing.	
ENERGY SAVING	Adjust the brightness of your screen. (Refer to p.87)	

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

TO USE A USB DEVICE

How To View Photo

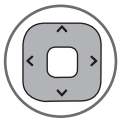
Detailed operations are available on full-sized photo view screen.





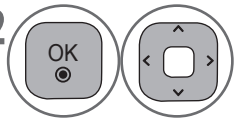
The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.
Press the **BACK** button to return to the previous screen.

---

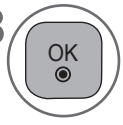
1 

Select the target folder or drive.

- Use the **P** ∧ ∨ button to navigate in the photo page.

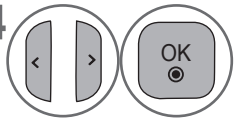
2 

Select the desired photos.

3 

The selected photo is displayed in full size.



4 

Select the **Slideshow** , **BGM**, **(Rotate)**, **(Zoom In)**, **Option, Hide,** or **Exit**.

- 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.

▶ **(Zoom In)** : View the photo by zoom in 2, 4 times.

▶ **Option** :
- **Set Photo View** : Set values for Slide Velocity, Music Folder for BGM and music play mode.
- **Set Audio** : Set values for Sound Mode, Automatic Volume and Sound Balance.

Use ∧ ∨ < > button and **OK** button to set values. Then go to **Previous** and press **OK** to save the settings.
You cannot change Music Folder while BGM is playing.



▶ **Hide :** Hide the menu on the full-sized screen.
To see the menu again on the full-sized screen, press **OK** button to display.

Press the **EXIT** button to go back to **Photo List**.
Press the **ENERGY SAVING** button to adjust the brightness of your screen. (Refer to p.87)

NOTE

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

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.

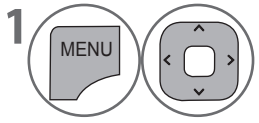
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

MUSIC (*.MP3) supporting file

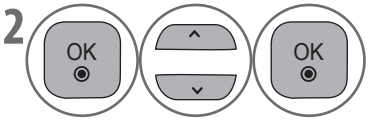
Bit rate 32 to 320

- Sampling rate MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz.
- Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz
- Sampling rate MPEG2.5 Layer3 : 8 kHz, 11.025 kHz, 12 kHz

Screen Components



Select **MY MEDIA**.



Select **Music List**.

❶ Preview: If any album jacket for the folder (Album Art Image)exists, this jacket is displayed.

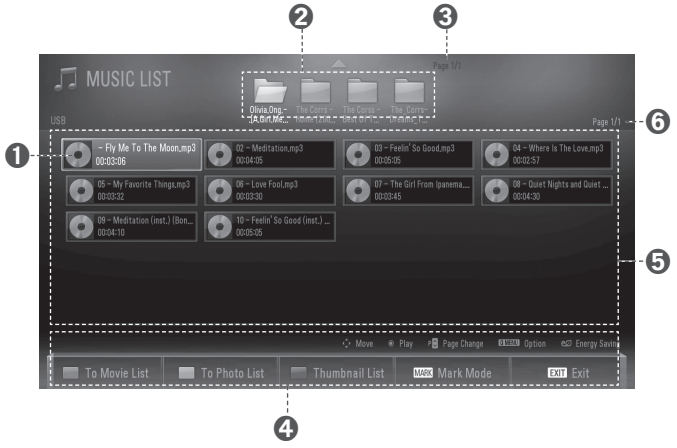
❷ Moves to upper level folder

❸ Current page/Total pages

❹ Corresponding buttons on the remote control

❺ Contents under the folder focused on ❶

❻ Current page/ total pages of contents under the folder focused on ❶



Music Selection



Mark Mode



1 Select the target folder or drive.

2 Select the desired musics.

3 Music files are played.

- Use the **P**∧∨ button to navigate in the music page.
- Use the **MARK** button to convert to **Mark Mode**. Use the **OK** button to mark or unmark a music. Press the **YELLOW** button to play the marked music file. 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.
- If you want to activate Random playback, you must set **Option> Set audio play.>Random** to **On**.

TO USE A USB DEVICE

Using the remote control

	Music List	Music List (Mark Mode)
RED	Not available.	Unmark all marked music files.
GREEN	Convert to **Movie List**.	Mark all music files on the screen.
YELLOW	Convert to **Photo List**.	Play the marked music file(s).
BLUE	A method to view in 5 large thumbnail or simple list.	
MARK / FAV	Convert to **Mark Mode**.	Exit the **Mark Mode**.
EXIT	Return to normal TV viewing.	
ENERGY SAVING	Adjust the brightness of your screen. (Refer to p.87)	

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

How to Play Music



---

1 Select the target folder or drive.

- Use the **P**∧∨ button to navigate in the music page.

2 Select the desired music.

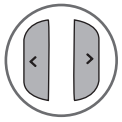
3 The selected music is played.

4 Select the ■, ▶, II, ◀◀, ▶▶, **Play with photo**, **Option**, **Hide** or **Exit**.

• Use ∨ < > and **OK** button to select and control the menu on the full sized screen.

TO USE A USB DEVICE

Using the remote control

■	Stop the playback.
▶	Return to normal playback.
II	Pause or resume the playback.
◀◀/▶▶	Play the previous/next music file.
	Convert to **Photo List** to view the photos while playing music.
	Show the **Option** menu. • **Set Audio Play** : Set values for music play mode. (**Repeat** or **Random**) • **Set Audio** : Set values for Sound Mode, Automatic Volume and Sound Balance. Use ∧ ∨ < > button and **OK** button to set values. Then go to **Previous** and press **OK** to save the settings.
	Hide the menu on the full-sized screen. • To see the menu again on the full-sized screen, press **OK** button to display.
	Return to normal TV viewing.
	Move a cursor to replay or skip the music when a cursor is on the playing bar.
	Adjust the brightness of your screen. (Refer to p.87)

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



NOTE

- A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- If you press **OK**, **MENU**, **Q.MENU**, **BACK** or **EXIT** 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.

TO USE A USB DEVICE

MOVIE LIST

You can play movie files on a USB storage device.

The movie list is activated once USB is detected. It is used when playing movie files on TV.

Displays the movies in the USB folder and supports Play.

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

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

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

Movie(*.mpg/*.mpeg/*dat/*.ts/*.trp/*.tp/*.vob/*.mp4/*.mkv/*.dvix/*.avi)supporting file

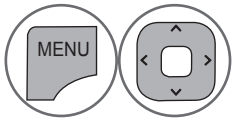
- ▶ Video format : DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid1.10 beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264, AVC
- ▶ Audio format : AC3(Dolby Digital), EAC3, AAC, Mpeg, MP3, PCM (Bit rate: within 32 to 320kbps(MP3))
- ▶ Subtitle format : *.smi/*.srt/*.sub(MicroDVD,Subviewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.psb(PowerDivX)

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920x1080p@25/30P or 1280x720p@50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920X1080p@25/30P or 1280x720p@50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- Max bitrate of playable movie file is 20 Mbps.
- We do not guarantee smooth playback of profiles encoded level 5.1 or higher in H.264.
- DTS Audio codec is not supported.
- A movie file more than 30 GB in file size is not supported for playback.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- Files encoded with GMC(Global Motion Compensation) may not be played.
- When you are watching the movie by Movie List function, you can adjust an image by Energy Saving key on the remote control. User setup for each image mode does not operate.

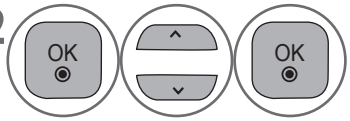
File / Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg, vob	MPEG1, MPEG2	AC3,MPEG,MP3,PCM	1920x1080p@30p
dat	MPEG1	AC3,MPEG,MP3,PCM	
ts,trp,tp	MPEG2, H.264	AC3,AAC,MPEG	
mp4	MPEG4 SP,MPEG4 ASP,DivX 3.11,DivX 4.12,DivX 5.x DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03 Xvid 1.10 –beta , Xvid 1.10-beta 2, H.264	AC3,EAC3,AAC,MPEG, MP3,PCM	
mkv	H.264, MPEG 1,MPEG 2,MPEG 4 SP ,MPEG4 ASP, AVC	AC3,EAC3,AAC,MPEG, MP3,PCM	
divx, avi	MPEG 2, MPEG 4 SP,MPEG4 ASP,DivX 3.11,DivX 4,DivX 5,DivX 6 Xvid 1.00, Xvid 1.01,Xvid 1.02, Xvid 1.03,Xvid 1.10 – beta 1 Xvid 1.10 – beta 2,H.264	AC3,EAC3,AAC,MPEG, MP3,PCM	

TO USE A USB DEVICE

Screen Components

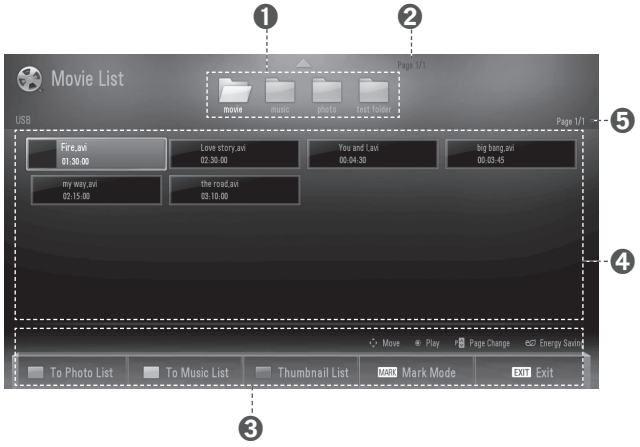
1 

Select **MY MEDIA**.

2 

Select **Movie List**.

❶ Moves to upper level folder
❷ Current page/Total pages
❸ Corresponding buttons on the remote control
❹ Contents under the folder focused on ❶
❺ Current page/ total pages of contents under the folder focused on ❶

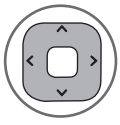


Movie Selection

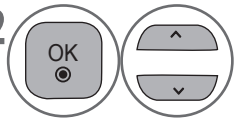
Mark Mode



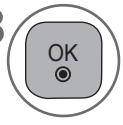


1 

Select the target folder or drive.

2 

Select the desired movie title.

3 

Movie files are played.

- Use the **P**∧∨ button to navigate in the movie page.
- Use the **MARK** button to mark or unmark a movie. When one or more movie files are marked, the marked movies will be played in sequence.

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

TO USE A USB DEVICE

Using the remote control

	Movie List	Movie List (Mark Mode)
RED	Not available.	Unmark all marked movie files.
GREEN	Convert to **Photo List**.	Mark all movie files on the screen.
YELLOW	Convert to **Music List**.	Play the marked movie file(s).
BLUE	A method to view in 5 large thumbnail or simple list.	
MARK / FAV	Convert to **Mark Mode**.	Exit the **Mark Mode**.
EXIT	Return to normal TV viewing.	
ENERGY SAVING	Adjust the brightness of your screen. (Refer to p.87)	

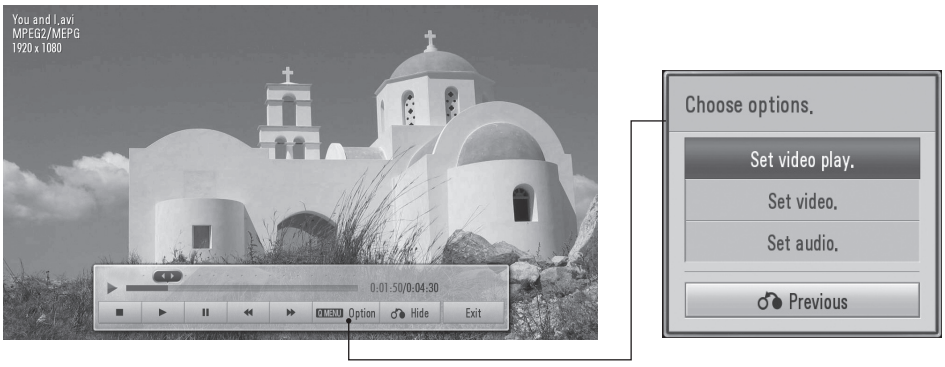
NOTE

- In the case of files not supported, a message regarding non-supported file is displayed.
- If you select "Yes" from OSD when playing the same file after the movie file has been stopped, it will restart where it stopped previously.
- If continuous series files exist within the folder, the next file will automatically be played.
- But, this excludes cases when the **Repeat** function of Movie List Option is turned "**On**" (Refer to p.76) or when set as Marked Play.

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

How to Play Movie





1 Select the target folder or drive.

- Use the **P**∧∨ button to navigate in the movie page.

2 Select the desired movie.

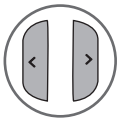
3 The selected movie is played.

4 Select the ■, ▶, II, ◀◀, ▶▶, **Option**, **Hide** or **Exit**.

- Use < > button to move the current position when a cursor is on playing bar if you want to replay or skip a section.
- Use∨ < > and **OK** button to select and control the menu on the full sized screen.

TO USE A USB DEVICE

Using the remote control while playing

■	Stop the playback.
▶	Return to normal playback.
II	Pause or resume the playback. • Press the **II** button and then use the ◀◀/▶▶ button for slow motion.
◀◀/▶▶	Fast forward or rewind. • Pressing repeatedly increases the fast forward/rewind speed.
	Show the Option menu. • **Set Video Play** : Set values for **Screen Size**, **Audio Language**, **Subtitle Language** and **Repeat Play**. • **Set Video** : Set values for **Picture Mode**, **Dynamic Contrast**, and **Noise Reduction**. • **Set Audio** : Set values for **Sound Mode**, **Automatic Volume** and **Sound Balance**. Use ∧ ∨ < > button and **OK** button to set values. Then go to **Previous** and press **OK** to save the settings.
	Hide the menu on the full-sized screen. • To see the menu again on the full-sized screen, press **OK** button to display.
	Return to normal TV viewing.
	Move a cursor to replay or skip the scenes when a cursor is on the playing bar.
	Adjust the brightness of your screen. (Refer to p.87)

NOTE

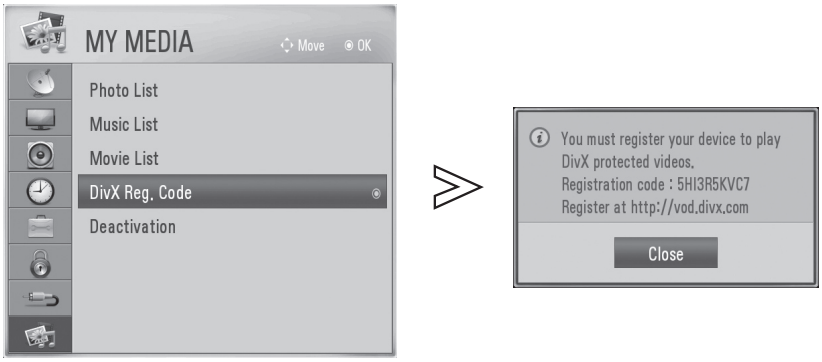
- ► Only 500 alphabets and 500 numbers are supported for each line of the subtitle.
- ► Only 10,000 of sync blocks can be supported within the subtitle file.

DIVX REGISTRATION CODE

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

With a DivX registration code from other TV, playback of rented or purchased DivX file is not allowed.

(Only DivX files matched with the registration code of the purchased TV are playable.)



1 MENU

Select **MY MEDIA**.

2 OK

Select **DivX Reg. Code**.

3 OK

Display **DivX Reg. Code**.

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

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

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

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

NOTE

► Movie files are supported as follows

Resolution : under 1920x1080 WxH pixels

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

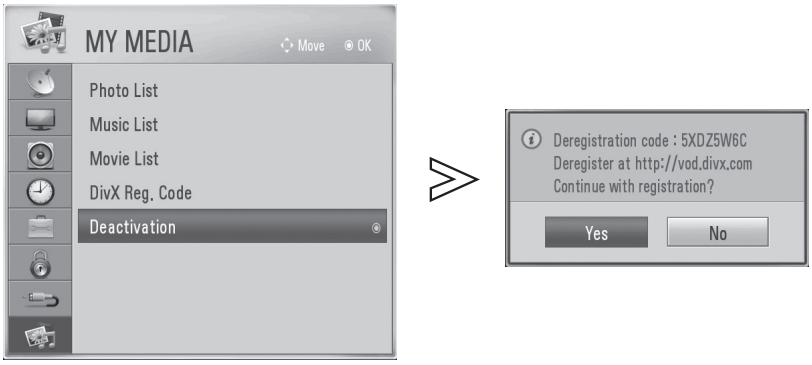
► Video Codec : MPEG 1, MPEG 2, MPEG 4, H.264/AVC, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1, Xvid 1.10-beta2, JPEG, VC1, Sorenson H.263/H.264.

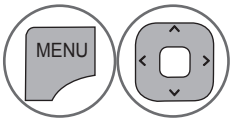
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

TO USE A USB DEVICE

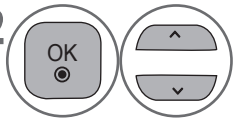
DEACTIVATION

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

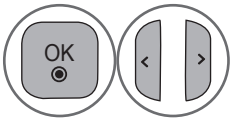


1 

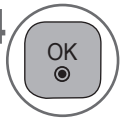
Select **MY MEDIA**.

2 

Select **Deactivation**.

3 

Select **Yes**.

4 

Display **Deactivation**.

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

EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.

The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

This function can be used only when the EPG information is broadcast by broadcasting companies.
You must set the Clock in the Time menu, before using EPG function.

The EPG displays the programme details for 8 days.



Shows current programme information

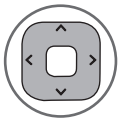
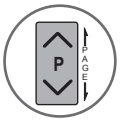
	Displayed with a TV or Terrestrial DTV Programme.		Displayed with a Teletext Programme.
	Displayed with a Satellite DTV Programme.		Displayed with a Subtitle Programme.
	Displayed with a Radio Programme.		Displayed with a Scramble Programme.
MHP	Displayed with a MHP Programme.	DD	Displayed with a Dolby Digital Programme.
AAC	Displayed with a AAC Programme.	DD+	Displayed with a Dolby Digital PLUS Programme.
4:3	Aspect ratio of broadcasting programme.	576i/p, 720p, 1080i/p : Resolution of broadcasting programme	
16:9	Aspect ratio of broadcasting programme.		

Switch on/off EPG

1 

Switch on or off EPG.

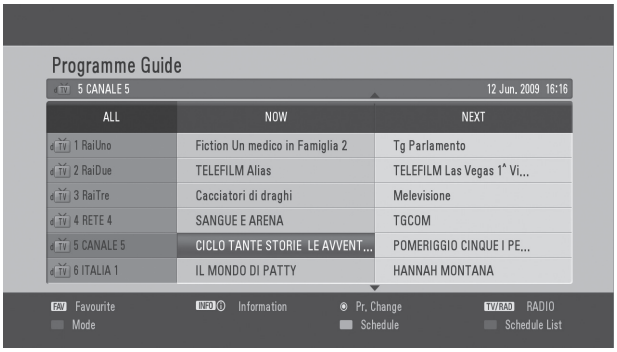
Select a programme

1  or 

Select desired programme.

Button Function in NOW/NEXT Guide Mode

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



RED — Change EPG mode.

YELLOW — Enter **Schedule** mode for Remind.

BLUE — Enter **Schedule List** mode.

OK — Exit EPG and switch to the selected programme.

Select **NOW** or **NEXT** Programme.

Select the Broadcast Programme.

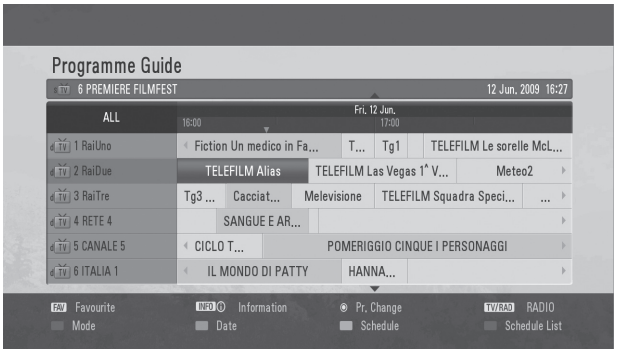
P PAGE — Page Up/Down.

GUIDE or BACK or EXIT — Switch off EPG.

TV/RAD — Select DTV or RADIO Programme.

INFO — Detail information on or off.

Button Function in 8 Day Guide Mode



RED — Change EPG mode.

GREEN — Enter **Date** setting mode.

YELLOW — Enter **Schedule** mode for Remind.

BLUE — Enter **Schedule List** mode.

OK — Exit EPG and switch to the selected programme.

Select Programme.

Select the Broadcast Programme.

P PAGE — Page Up/Down.

GUIDE or BACK or EXIT — Switch off EPG.

TV/RAD — Select DTV or RADIO Programme.

INFO — Detail information on or off.

EPG (ELECTRONIC PROGRAMME GUIDE) (In Digital Mode)

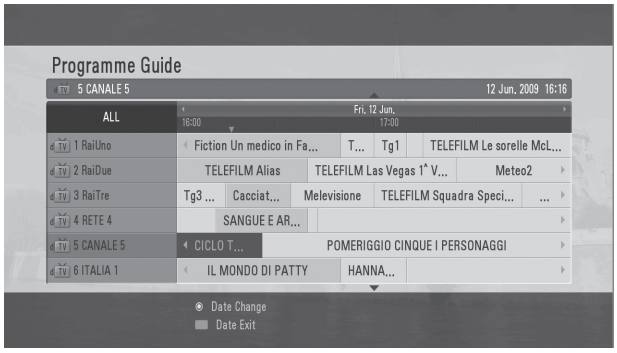
Button Function in Date Change Mode

GREEN or ⌄ Switch off **Date** setting mode.

‹ › Select a date.

OK Change to the selected date.

GUIDE or BACK or EXIT Switch off EPG.



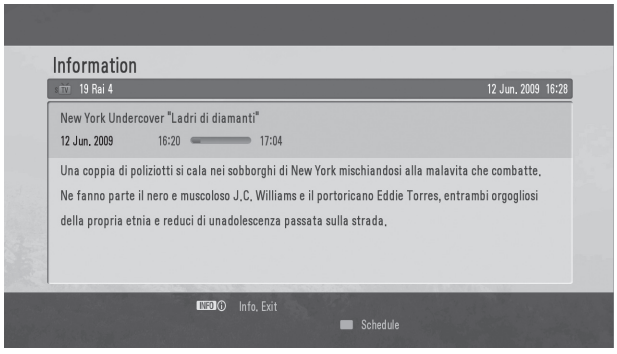
Button Function in Extended Description Box

INFO ⓘ The detail information on or off.

⌃ ⌄ Text Up/Down.

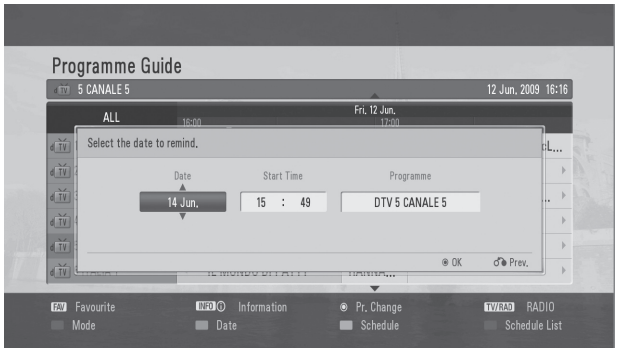
YELLOW Enter **Schedule** mode for Remind.

GUIDE or EXIT Switch off EPG.



Button Function in Remind Setting Mode

Sets a start time for the reminder.

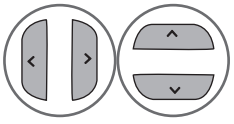




Enter **Schedule List** mode.



Select **Remind**.



Select **Date**, **Start Time**, or **Programme**.



Save Timer for Remind.

Button Function in Schedule List Mode

If you've created a schedule list, a scheduled programme is displayed at the scheduled time even when you are watching a different programme at the time.



BLUE — Enter **Schedule List** mode.

Select the scheduled reminder.

OK — Select your desired Option(Modify/Delete/Delete All).

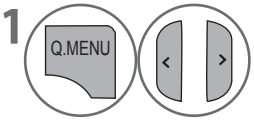
GREEN — Add a new remind.

BLUE or GUIDE — Change to Guide mode.

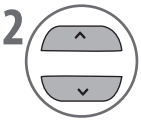
PICTURE CONTROL

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 Zoom1.
If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

1 

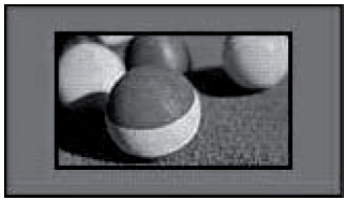
Select **Aspect Ratio**.

2 

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 1**, 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

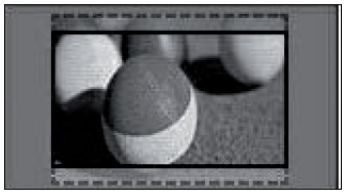
- **4:3**
  The following selection will allow you to view a picture with an original 4:3 aspect ratio, gray bars will appear on both the left and right of the screen.



- **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 1**
  Choose Cinema Zoom 1 when you want to enlarge the picture in correct proportion.

  NOTE :

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



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

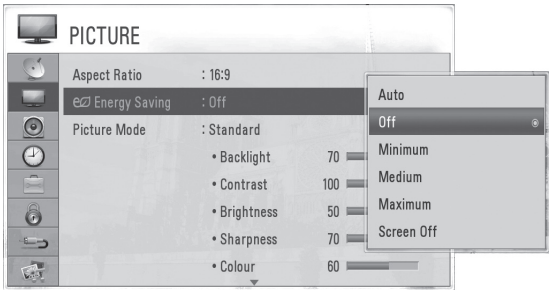
NOTE :

► You can only select 4:3, 16:9 (Wide), 14:9, Zoom, Cinema Zoom 1 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.

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**.



---

1 MENU

Select **PICTURE**.

2 OK

Select **Energy Saving**.

3 OK

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

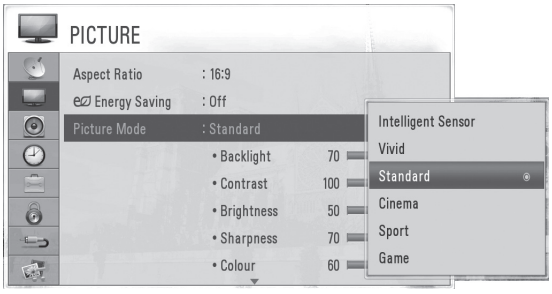
- When selecting Screen off, TV turned off after 3 seconds.
- If you adjust **"Energy Saving**-**Minimum**, **Medium**, **Maximum"**, Backlight feature will not work.
- You can also adjust this feature by selecting **ENERGY SAVING** button on the remote control.
- When selecting Auto, Backlight is automatically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

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

PICTURE CONTROL

PRESET PICTURE SETTINGS - PICTURE MODE

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



1 MENU

Select **PICTURE**.

2 OK

Select **Picture Mode**.

3 OK

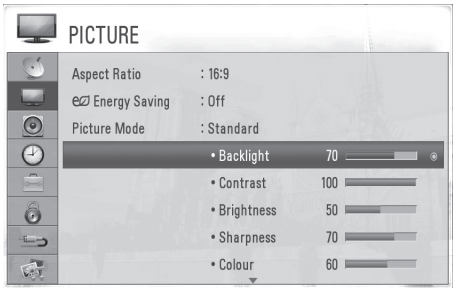
Select **Intelligent Sensor**, **Vivid**, **Standard**, **Cinema**, **Sport** or **Game**.

- **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** : Adjusts picture according to the surrounding conditions.

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

MANUAL PICTURE ADJUSTMENT - USER MODE

- **Backlight**
  To control the brightness of the screen, adjust the brightness of LCD panel. Adjusting the backlight when setting the brightness of the set is recommended.
- **Contrast**
  Adjusts the signal level between black and white in the picture. You may use Contrast when the bright part of the picture is saturated.
- **Brightness**
  Adjusts the base level of the signal in the picture.
- **Sharpness**
  Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
- **Colour**
  Adjusts intensity of all colours.
- **Tint**
  Adjusts the balance between red and green levels.



1 MENU — Select **PICTURE**.

2 OK — Select **Picture Mode**.

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

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

5 OK — Make appropriate adjustments.

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

NOTE

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

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

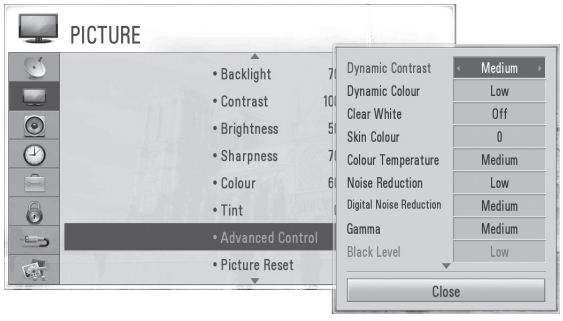
PICTURE CONTROL

PICTURE IMPROVEMENT TECHNOLOGY

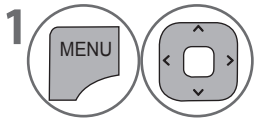
You can calibrate the screen for each Picture Mode or set the video value according to the special video screen.

You can set the video value differently for each input.

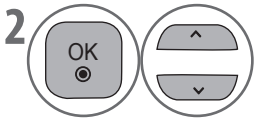
To reset to the factory default screen after making adjustments to each video mode, execute the "Picture Reset" function for each Picture Mode.



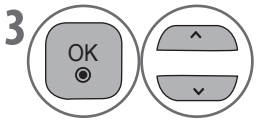
---

1 

Select **PICTURE**.

2 

Select **Advanced Control**.

3 

Select your desired source.
Dynamic Contrast, **Dynamic Colour**, **Clear White**, **Skin Colour**, **Colour Temperature**, **Noise Reduction**, **Digital Noise Reduction**, **Gamma**, **Black Level**, **Eye Care**, **Real Cinema**, **Colour Gamut** or **xvYCC**. (▶p.91 to 92)

4 

Make appropriate adjustments.

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

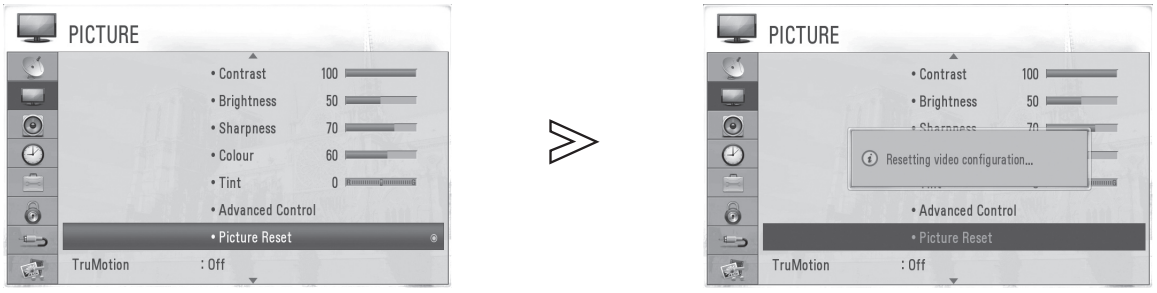
Dynamic Contrast (Off/Low/Medium/High)	■ Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour (Off/Low/High)	■ Adjusts screen colours so that they look livelier, richer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

PICTURE CONTROL

Colour Gamut (Advanced Control: Wide/Standard)	• **Standard** : Mode to reproduce original colour according to the standard of input signal independent of the display characteristics. • **Wide** : Mode to use maximum colour area of the TV display. ■ Maximize the utilization for colour area that can be expressed.
xvYCC (Auto/off/on)	*This feature is not available for all models. ■ This is the function to express richer colour. ■ This function is enabled in "Picture mode - Cinema, Expert" when xvYCC signal is inputted through HDMI
Colour Temperature (Medium/Warm/Cool)	• This is the function to adjust the overall colour of the screen to the feeling you want. a. • Method : 2 Points • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 to +50. b. • Method : 10 point IRE • Pattern: Inner / Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 to 100. You can adjust Red, Green or Blue according to each setting. • Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. • Red/Green/Blue: The adjustment range is -50 to +50

PICTURE RESET

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



1 MENU

Select **PICTURE**.

2 OK

Select **Picture Reset**.

3 OK

Initialize the adjusted value.

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

PICTURE CONTROL

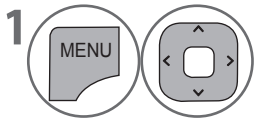
TRUMOTION

It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source.

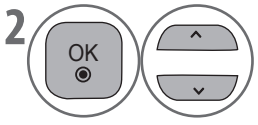
High : Provide smoother picture movement.
Low : Provide smooth picture movement. Use this setting for standard use.
Off : Turn off TruMotion Operation.
User : User can adjust Judder and Blur level in TruMotion Operation, separately.
- **Judder** : Adjust noise of the screen.
- **Blur** : Adjust after-image of the screen.

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”.
If you select **“Picture Mode-Game”**, set **“TruMotion”** to **“Off”**.

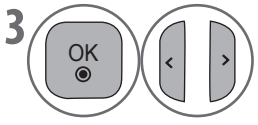




Select **PICTURE**.



Select **TruMotion**.



Select **Low**, **High**, **User** or **Off**.



Make appropriate adjustments.

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

POWER INDICATOR

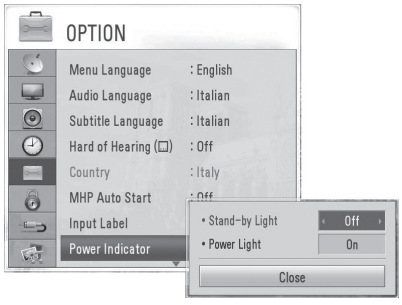
It helps you adjust the brightness of moving LED when power is turned on.

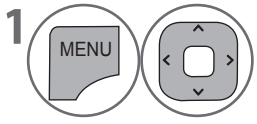
Standby Light

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

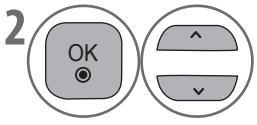
Power Light

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

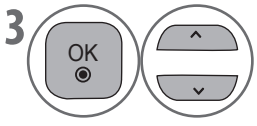


1 

Select **OPTION**.

2 

Select **Power Indicator.**.

3 

Select **Standby Light** or **Power Light**.

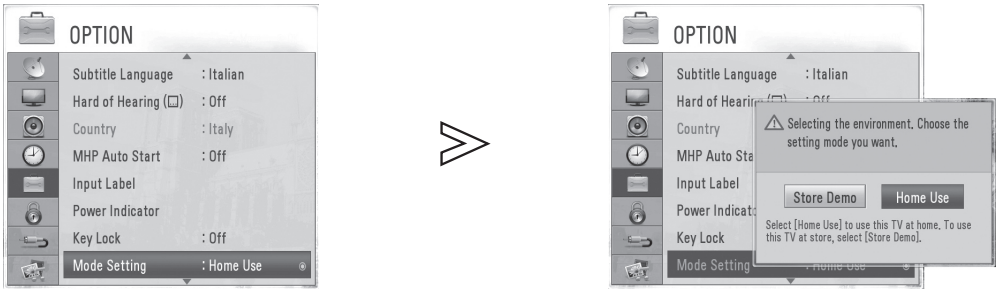
4 

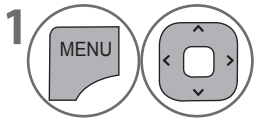
Select your desired Source.

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

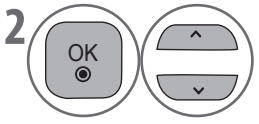
MODE SETTING

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

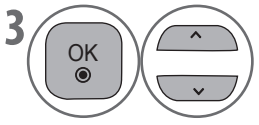




Select **OPTION**.



Select **Mode Setting**.



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



Save.

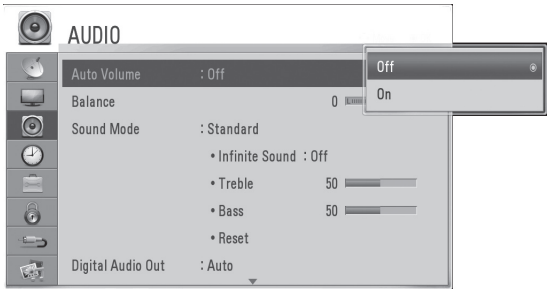
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

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 MENU

Select **AUDIO**.

2 OK

Select **Auto Volume**.

3 OK

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

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

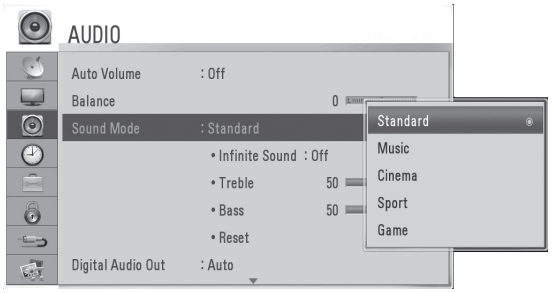
PRESET SOUND SETTINGS - SOUND MODE

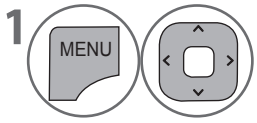
You can select your preferred sound setting; Standard, Music, Cinema, Sport or Game and you can also adjust the frequency of the equalizer.

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

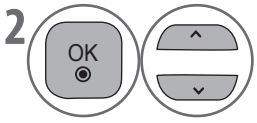
Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory.

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

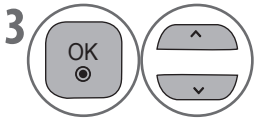




Select **AUDIO**.



Select **Sound Mode**.

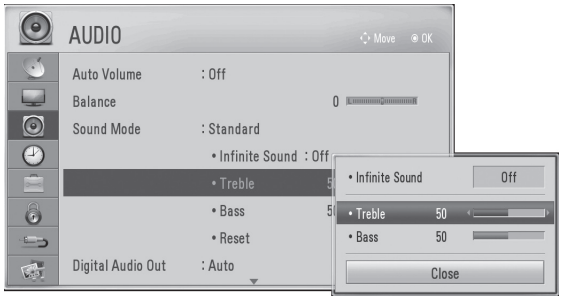


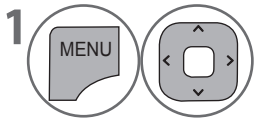
Select **Standard**, **Music**, **Cinema**, **Sport** or **Game**.

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

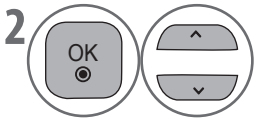
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to return to the previous screen.

MANUAL SOUND SETTING ADJUSTMENT - USER MODE

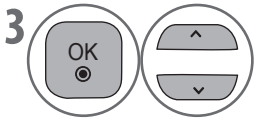




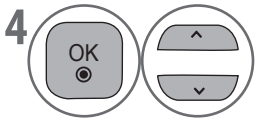
Select **AUDIO**.



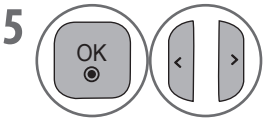
Select **Sound Mode**.



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



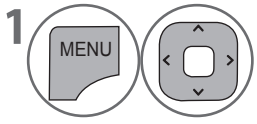
Select **Treble** or **Bass**.



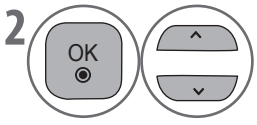
Set the desired sound level.

INFINITE SOUND

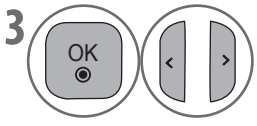
Select this option to sound realistic.



Select **AUDIO**.



Select **Infinite Sound**.



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

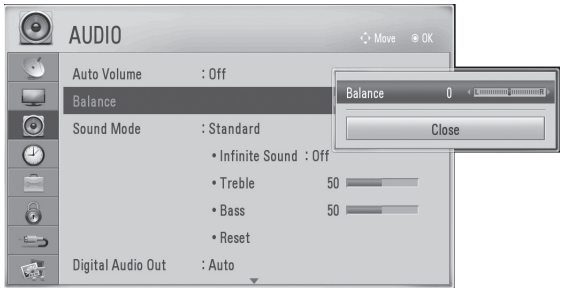
- **Infinite Sound** : Infinite Sound is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound impression with front two loudspeakers.

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

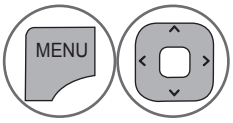
SOUND & LANGUAGE CONTROL

BALANCE

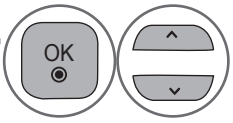
You can adjust the sound balance of the speakers to preferred levels.



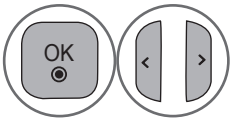
---

1 

Select **AUDIO**.

2 

Select **Balance**.

3 

Make desired adjustment.

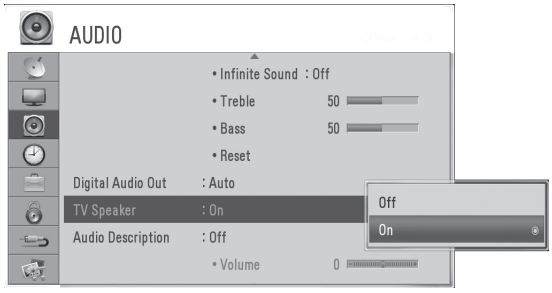
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

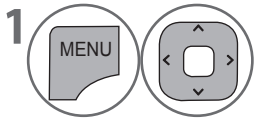
TV SPEAKERS ON/OFF SETUP

You can adjust the TV internal speaker status.

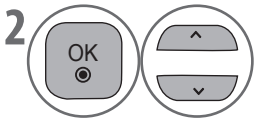
In **AV1**, **AV2**, **AV3**, **COMPONENT**, **RGB** and **HDMI1** with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.

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

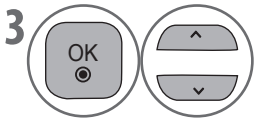




Select **AUDIO**.



Select **TV Speaker**.



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

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

SELECTING DIGITAL AUDIO OUT

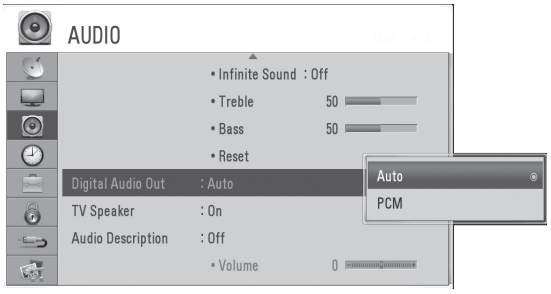
This function allows you to select your preferred Digital Audio Output.

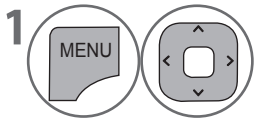
The TV can only output Dolby Digital if a channel is broadcast with Dolby Digital audio.

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

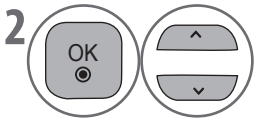
If Auto is selected in the digital audio out menu when dolby digital is not available, SPDIF output will be PCM (Pulse-Code Modulation).

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

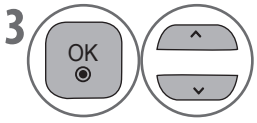




Select **AUDIO**.



Select **Digital Audio Out**.



Select **Auto** or **PCM**.

DOLBY DIGITAL

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

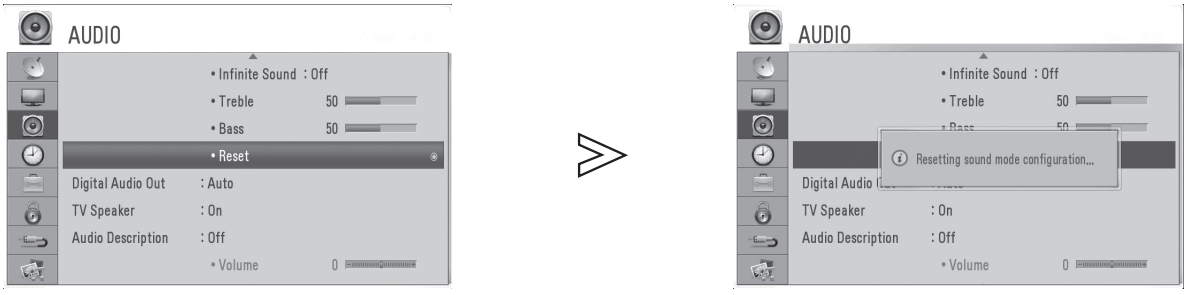
- There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM.

Item	Audio Input	Digital Audio output
Auto	MPEG	PCM
	DD	DD
	DD+	DD
PCM	MPEG	PCM
	DD	PCM
	DD+	PCM

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

AUDIO RESET

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



1 MENU

Select **AUDIO**.

2 OK

Select **Reset**.

3 OK

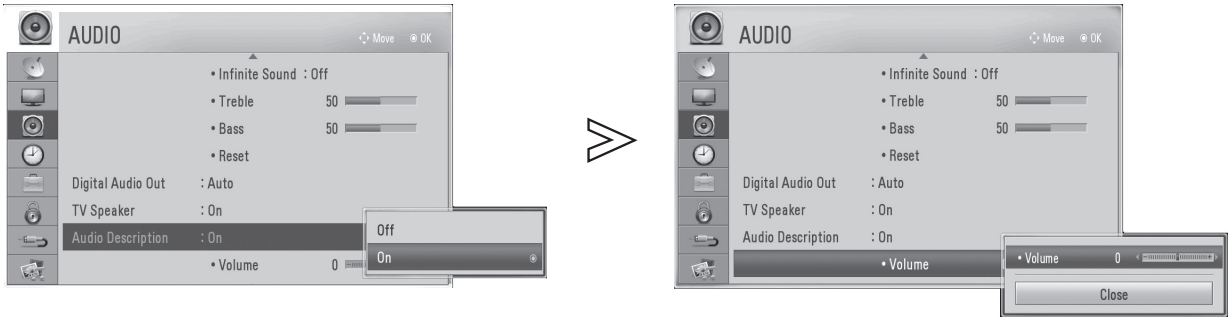
Initialize the adjusted value.

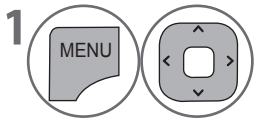
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)

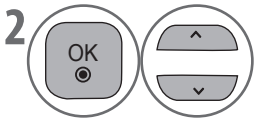
This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.

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

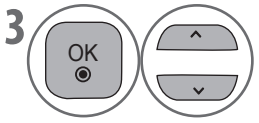




Select **AUDIO**.



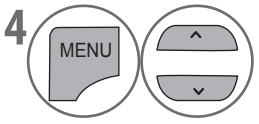
Select **Audio Description**.



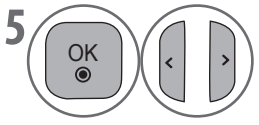
Select **On**.

- The availability of audio description is indicated by "AD" in the information banner
- You can also activate using the **AD** button.

Adjustment for Audio Description Volume With selecting On



Select **Volume**.



Make desired adjustment.

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

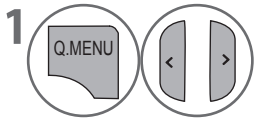
I/II

Stereo/Dual Reception (In Analogue Mode Only)

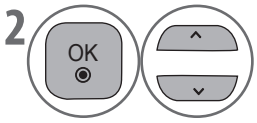
When a programme is selected, the sound information for the station appears with the programme number and station name.







Select **AUDIO**.



Select the sound output.

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

- **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.

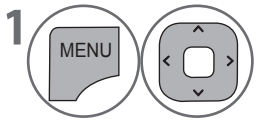
L+R Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.

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

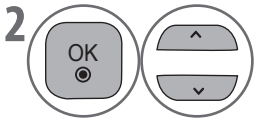
R+R Audio signal from audio R input is sent to left and right loudspeakers.

LANGUAGE SELECTION

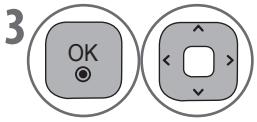
Select the default language and the hard of hearing.



Select **OPTION**.



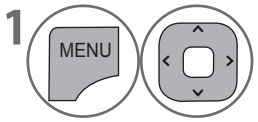
Select **Menu Language**, **Audio Language** or **Subtitle Language**.



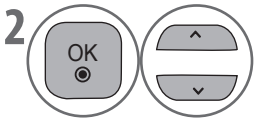
Select your desired language.



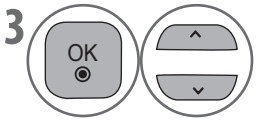
Save.



Select **OPTION**.



Select **Hard of Hearing**(□).



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

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

Audio/Subtitle Language (In Digital Mode Only)

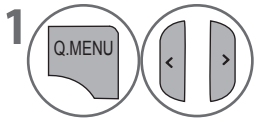
When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.

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.

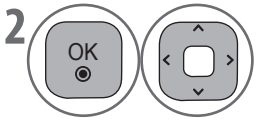
< Audio Language Selection >

The Audio function allows selection of a preferred language.

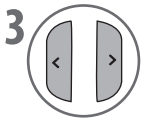
► When two or more audio languages are roadcast, you can select the audio language.



Select **Audio**.



Select an audio language.



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

< 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 ∧ ∨ button to select a subtitle language.

Audio Language OSD Information

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

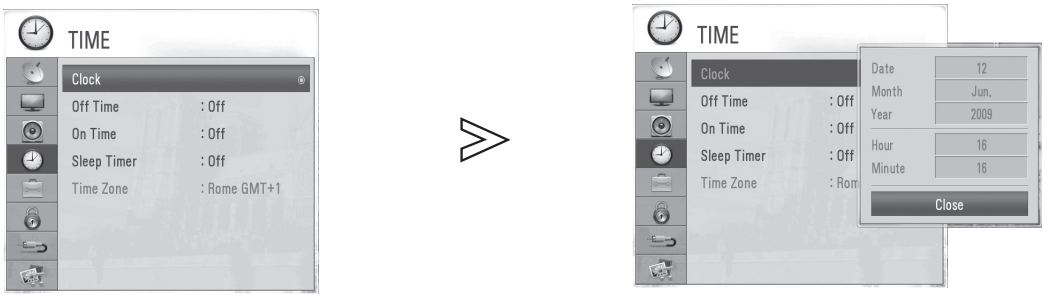
Subtitle Language OSD Information

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

TIME SETTING

CLOCK SETUP

The clock is set automatically when receiving a digital TV signal.
Once Clock is set in DTV 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 MENU

Select **TIME**.

- Time Zone is set automatically to Rome GMT+1 for Italy.

2 OK

Select **Clock**.

3 OK

Select either the year, date, or time option.

4

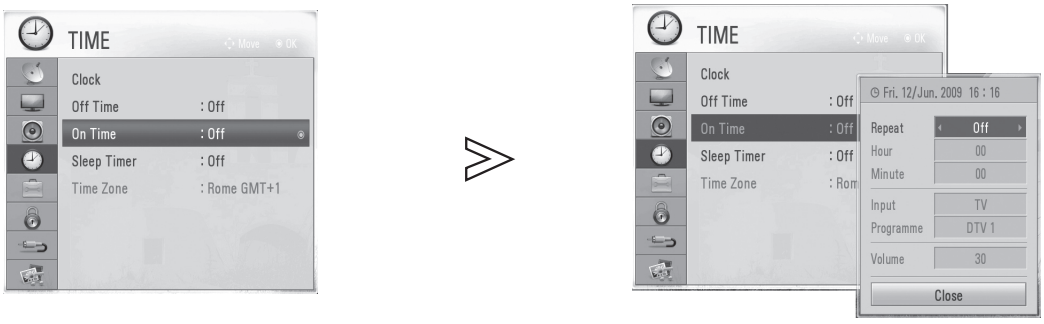
Set the year, date, and time options..

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

AUTO ON/OFF TIME SETTING

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

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



1 MENU — Select **TIME**.

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

3 OK — 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 **Input**.

2 — Select **TV** or a source.

3 — Set the programme.

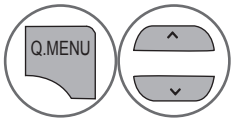
4 — Adjust volume level at switch-on.

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

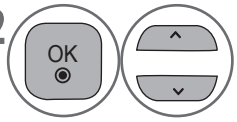
TIME SETTING

SLEEP TIMER SETTING

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

1 

Select **Sleep Timer**.

2 

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

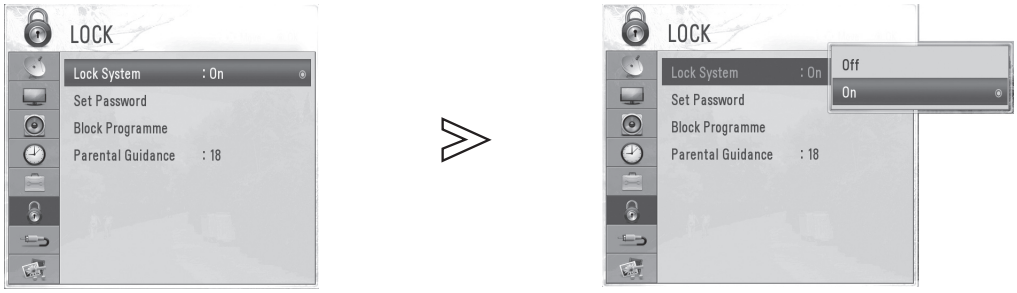
- When you switch the TV off, the preset sleep timer is cancelled.
- You can also adjust **Sleep Timer** in the **TIME** menu.

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

PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

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



---

1 MENU

Select **LOCK**.

2 OK

Select **Lock System**.

3 OK

Select **On**.

4 OK OK

Set the password.

5 1 2 3 4 5 6 7 8 9 0

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 0325 to reset your password.

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

PARENTAL CONTROL / RATINGS

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.





1 MENU — Select **LOCK**.

2 OK — Select **Block Programme**.

3 OK — Enter the **Block Programme**.

4 — Select a programme to be locked/unlocked.

5 GREEN — 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.

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

PARENTAL CONTROL (In Digital Mode Only)

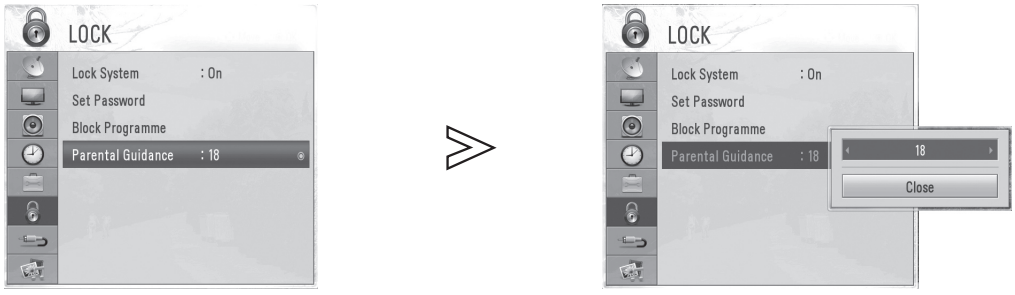
This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

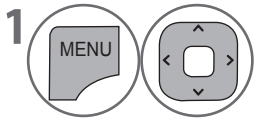
A password is required to gain access to this menu.

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

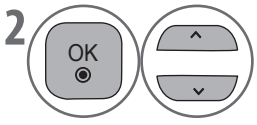
Prevents children from watching certain adult's TV programmes, according to the ratings limit set.

Enter a password to watch a blocked programme.

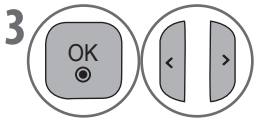




Select **LOCK**.



Select **Parental Guidance**.



Make appropriate adjustments.



Save.

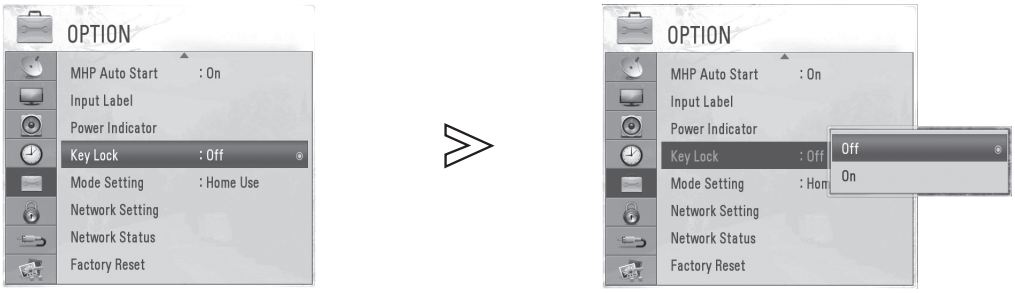
- If you have selected **On** in **LOCK** > **Lock System** menu, you will be prompted to enter your password to access. Use **NUMBER** buttons to input a 4-digit password.
- If you have forgotten your password, press 0325 to reset your password.
- If **Parental Guidance** is set, a programme without parental rating will be blocked.

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

PARENTAL CONTROL / RATINGS

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.



1 MENU

Select **OPTION**.

2 OK

Select **Key Lock**.

3 OK

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

4 OK

Save.

- In **Key Lock 'On'**, if the TV is turned off, press the **INPUT**, **P** ∧ ∨ button on the TV or **POWER**, **INPUT**, **P** ∧ ∨ 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.

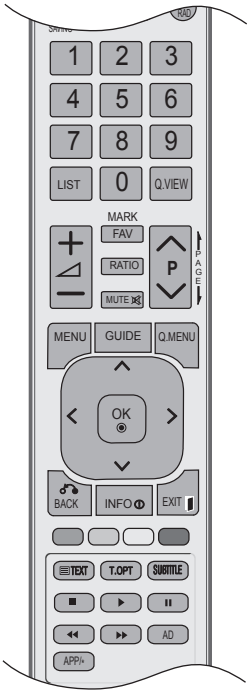
• Press the **MENU/EXIT** button to return to normal TV viewing.
• Press the **BACK** button to return to the previous screen.

TELETEXT

*** This feature is not available in all countries.**

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

The teletext decoder of this TV can support the SIMPLE 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**

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

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

FASTEXT

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

■ **Page selection**

❶ Press the **T.OPT** button and then use ∧ ∨ button to select ☰i menu. Display the index page.

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

❸ As with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.

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

SPECIAL TELETEXT FUNCTIONS

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



- **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	- Check to see if there is any object between the TV and the remote control causing an obstruction. Ensure you are pointing the remote control directly at the TV. - Ensure that the batteries are installed with correct polarity (+ to +, - to -). - Install new batteries.
Power is suddenly turned off	- Is the sleep timer set? - Check the power control settings. Has the Power supply been interrupted. - If the TV is switched on and there is no input signal, it will switch off automatically after 15 minutes.

The video function does not work.	
No picture & No sound	- Check whether the TV is switched on. - Try another channel. The problem may be with the broadcast. - Is the power cord inserted correctly into the mains? - Check your antenna direction and/or location. - Test the mains outlet by plugging another product into the same outlet.
Picture appears slowly after switching on	- This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	- Adjust Colour in menu option. - Allow a sufficient distance between the TV and the VCR. - Try another channel. The problem may be with the broadcast. - Are the video cables installed properly? - Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	- Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	- Station or cable channel experiencing problems, tune to another station. - Station signal is weak, reposition the antenna to receive weaker stations. - Check for sources of possible interference.
Lines or streaks in pictures	- Check antenna (Change the position of the antenna).
No picture when connecting HDMI	- Check that your HDMI cable is 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	- Press the ◿ + or - button. - Sound muted? Press **MUTE** button. - Try another channel. The problem may be with the broadcast. - Are the audio cables installed properly?
No output from one of the speakers	- Adjust **Balance** in menu option.
Unusual sound from inside the TV	- A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
No sound when connecting HDMI or USB	- Check HDMI cable over version 1.3. - Check USB cable over version 2.0.

APPENDIX

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

There is a problem with PICTURE settings.	
When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.	- It means that the TV is currently set to **Store Demo** mode. To switch to Home use mode you should do the followings: From the TV Menu, choose **OPTION** -> Choose **Mode Setting** -> Choose **Home use**. Now, you have completed switching to the **Home use** mode.

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

❶ 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.

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

Cleaning the Cabinet

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

Extended Absence

CAUTION

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

PRODUCT SPECIFICATIONS

MODELS		32LD5**	42LD5**	32LE5***	42LE5***
		32LD575-ZB	42LD575-ZB	32LE5750-ZC	42LE5750-ZC
Dimensions (W x H x D)	with stand	800 mm x 563 mm x 207 mm	1024 mm x 695 mm x 261 mm	784.6 mm x 558.1 mm x 221 mm	1016 mm x 692 mm x 270 mm
	without stand	800 mm x 503 mm x 74.7 mm	1024 mm x 632 mm x 78.7 mm	784.6 mm x 499.5 mm x 39.9 mm	1016 mm x 630 mm x 29.3 mm
Weight	with stand without stand	9.8 kg 8.8 kg	15.9 kg 14.3 kg	12.4 kg 10.6 kg	19.5 kg 17.0 kg
Power requirement Power Consumption		AC 100-240 V ~ 50/60 Hz 160 W	AC 100-240 V ~ 50/60 Hz 210 W	AC 100-240 V~ 50/60 Hz 130 W	AC 100-240 V~ 50/60 Hz 165 W
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm			
Television System Programme Coverage External Antenna Impedance		PAL-BG/I/DK, SECAM-BG/DK VHF: E2 to E12, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47 75 Ω			
Environment condition	Operating Temperature Operating Humidity	0 °C to 40 °C Less than 80 %			
	Storage Temperature Storage Humidity	-20 °C to 60 °C Less than 85 %			

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APPENDIX

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