LG
Life's Good

OWNER'S MANUAL

LED LCD TV / LCD TV / PLASMA TV

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

www.lg.com

LICENSES

Supported licenses may differ by model. For more information about licenses, visit www.lg.com.

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

NOTE

- Image shown may differ from your TV.
- Your TV’s OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.

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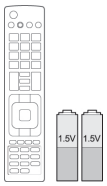
ASSEMBLING AND PREPARING

Unpacking

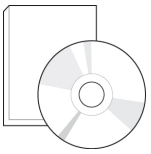
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.



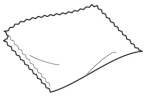
Remote control and batteries (AAA)



Nero MediaHome 4 Essentials CD



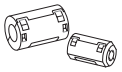
Owner's manual



Polishing cloth[1] (Depending on model)



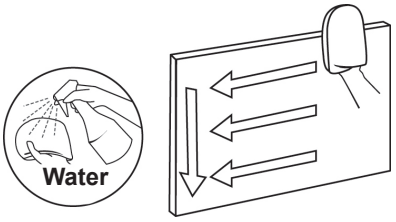
Cleaning cloths (Mitt)[2] (Depending on model)



Ferrite core (Depending on model)

1 Gently wipe the spots on the cabinet with the polishing cloth.

2 Wipe spots on the exterior only with the cleaning cloths.
Do not wipe roughly when removing stains. Excessive pressure may cause scratches or discolouration.
For cleaning front frame, please slowly wipe in one direction after spraying water 1-2 times on cleaning cloths. Please remove excessive moisture after cleaning. Excessive moisture may cause water stains on the frame.



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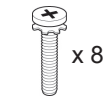
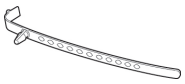
Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**



Screw for assembly



Cable holder
(Depending on model)



Screw for fixing
(Only 32/37LV37**, 32/37LV47**, 32LW47**)



FPR 3D glasses[1]
(Only 32/42/47/55LW47**)

Only 47LK95**



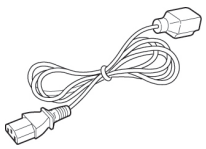
Screw for assembly



Protection cover



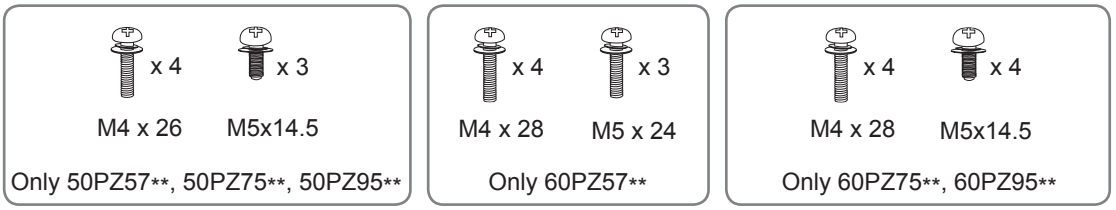
FPR 3D glasses[1]



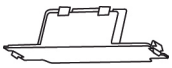
Power cord

1 The number of 3D glasses may differ depending on the country.

Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**



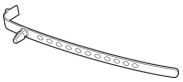
Screw for assembly



Protection cover



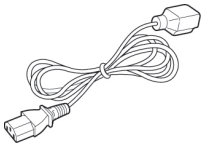
Protection cover tape



Cable holder



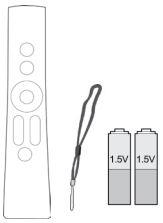
Power cord holder



Power cord



3D glasses (AG-S250)



Magic Motion remote control, Strap, Batteries (AA) (Only 50/60PZ95**)



Wireless LAN for Broadband/DLNA Adaptor (AN-WF100) (Only 50/60PZ95**)

CAUTION

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

NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- How to use the ferrite core (Only Plasma TV)

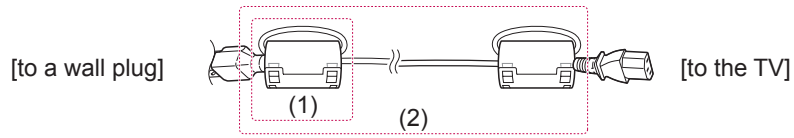
1 Use the ferrite core to reduce the electromagnetic interference in the PC audio cable.
Wind the PC audio cable on the ferrite core three times. Place the ferrite core close to the TV.



[Figure 1]

(Gray)
[Cross Section of Ferrite Core]

2 Use the ferrite core to reduce the electromagnetic interference in the power cable.
Wind the power cable on the ferrite core once. Place the ferrite core close to the TV and a wall plug.

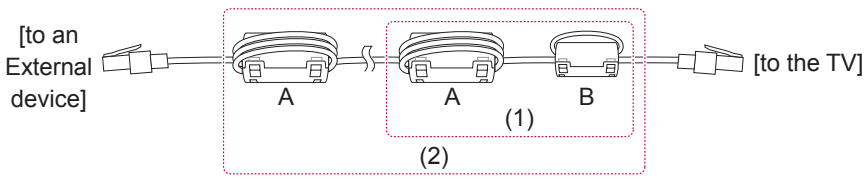


[Figure 2]

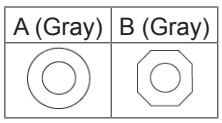


(Black)
[Cross Section of Ferrite Core]

3 Use the ferrite core to reduce the electromagnetic interference in the LAN cable.
Wind the LAN cable once on the small ferrite core and three times on the big ferrite core. Place the ferrite core close to the TV.



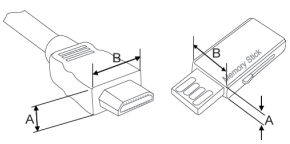
[Figure 3]



[Cross Section of Ferrite Core]

- If there are two ferrite cores, follow as shown in Figures 3(1).
- If there are three ferrite cores, follow as shown in Figures 1 and 3(1).
- If there are four ferrite cores, follow as shown in Figures 2(1) and 3(2).
- If there are six ferrite cores, follow as shown in Figures 1, 2(2) and 3(2).

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. (Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**)



*A ≦ 10 mm
*B ≦ 18 mm

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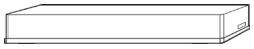
Separate purchase

Separate purchase items can be changed or modified for quality improvement without any notification.
Contact your dealer for buying these items.
These devices only work with compatible LG LED LCD TV, LCD TV or Plasma TV.



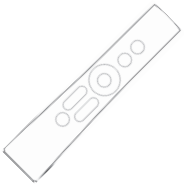
Wireless Media Box
(AN-WL100E, AN-WL100ET)
(Only 50/60PZ75**, 50/60PZ95**)



3D glasses
(AG-S230, AG-S250, AG-S270)
(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)



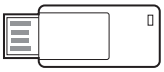
FPR 3D glasses[1]
(AG-F2**)
(Only 32/42/47/55LW47**, 47LK95**)



Magic Motion remote control
(AN-MR200)



Wireless LAN for Broadband/
DLNA Adaptor
(AN-WF100)
(Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**, 47LK95**, 50/60PZ75**)



LG USB for VOD
(AN-UM200)
(Only France)



Video Call Camera[2]
(AN-VC300)
(Depending on model)

1 The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.
2 Video Call Camera can be used with some LG TVs.
Video Call Camera is not available in every country.

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Parts and buttons

- Image shown may differ from your TV.

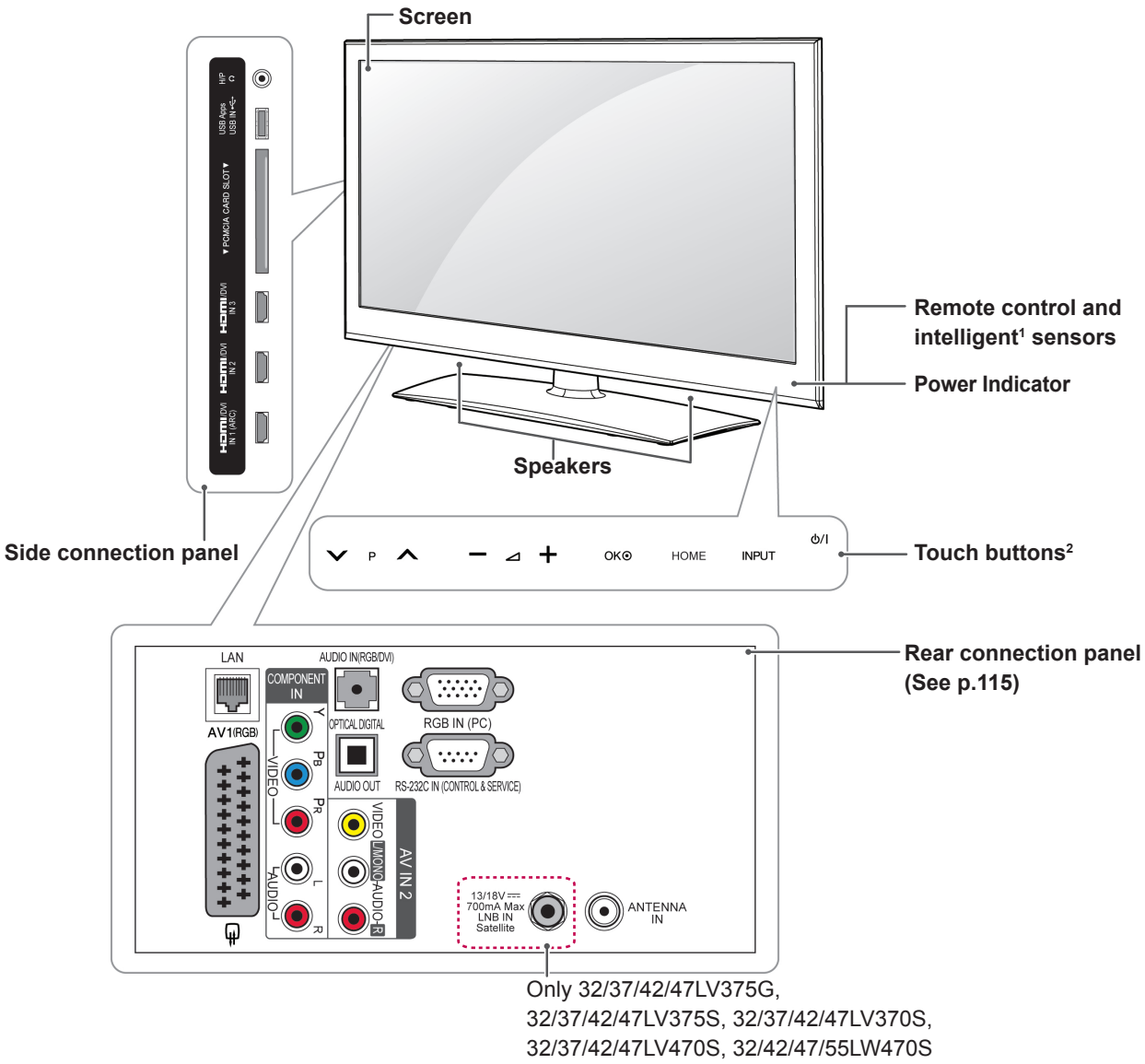
NOTE

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

CAUTION

- Do not step on the glass stand or subject it to any impact. It may break, causing possible injury from fragments of glass, or the TV may fall.
- Do not drag the TV. The floor or the product may be damaged.
- Some models have a thin film attached on to the screen and this must not be removed.

Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**



Only 32/37/42/47LV375G, 32/37/42/47LV375S, 32/37/42/47LV370S, 32/37/42/47LV470S, 32/42/47/55LW470S

Touch button[2]	Description
⏻/I	Turns the power on or off.
INPUT	Changes the input source.
HOME	Accesses the Home menu, or saves your input and exits the menus.
OK	Selects the highlighted menu option or confirms an input.
− ◿ +	Adjusts the volume level.
∨ P ∧	Scrolls through the saved programmes.

1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
2 All of the buttons are touch sensitive and can be operated through simple touch with your finger.

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the Home menu - SETUP.

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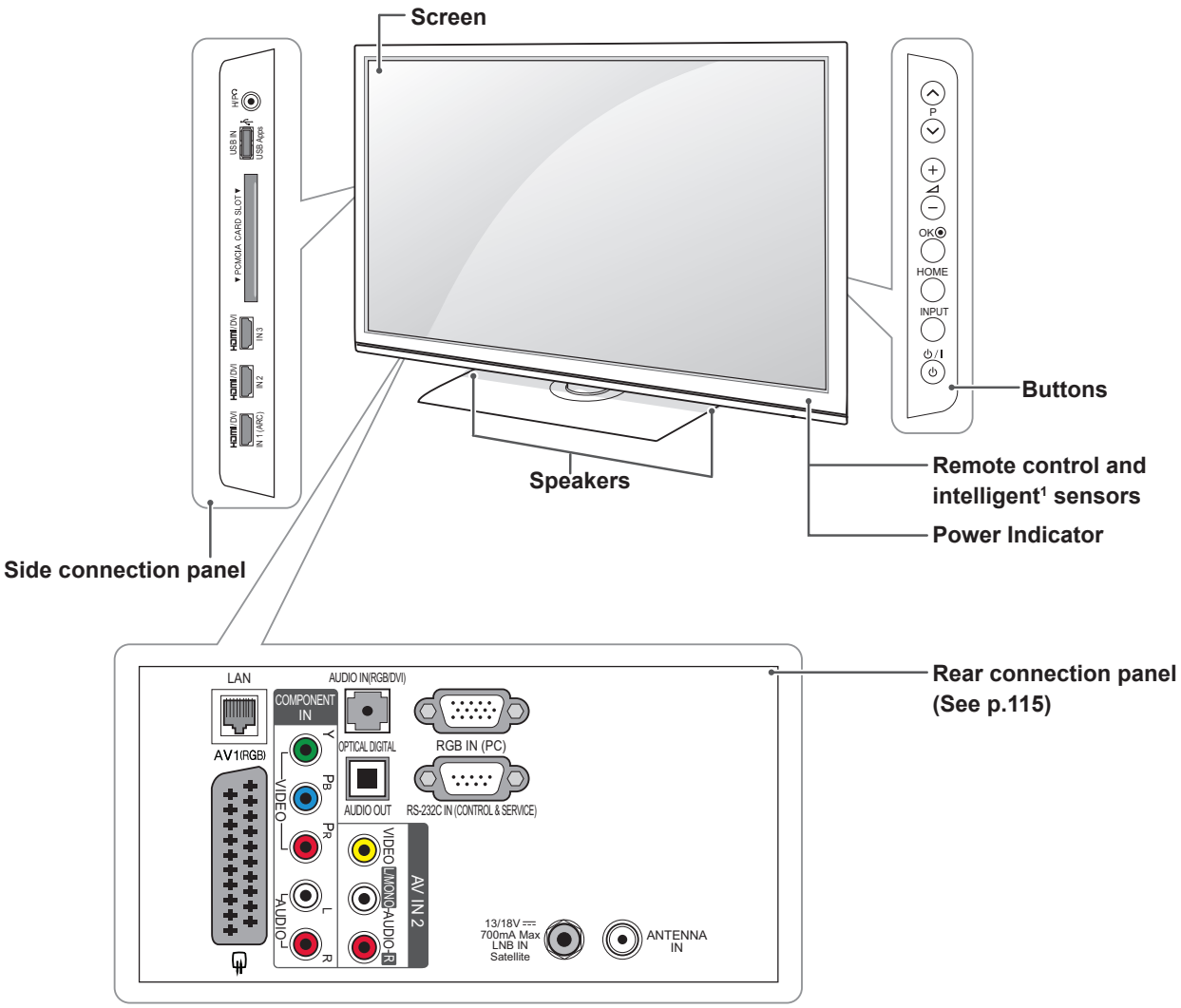
Only 47LK95**



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

1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the Home menu - SETUP.

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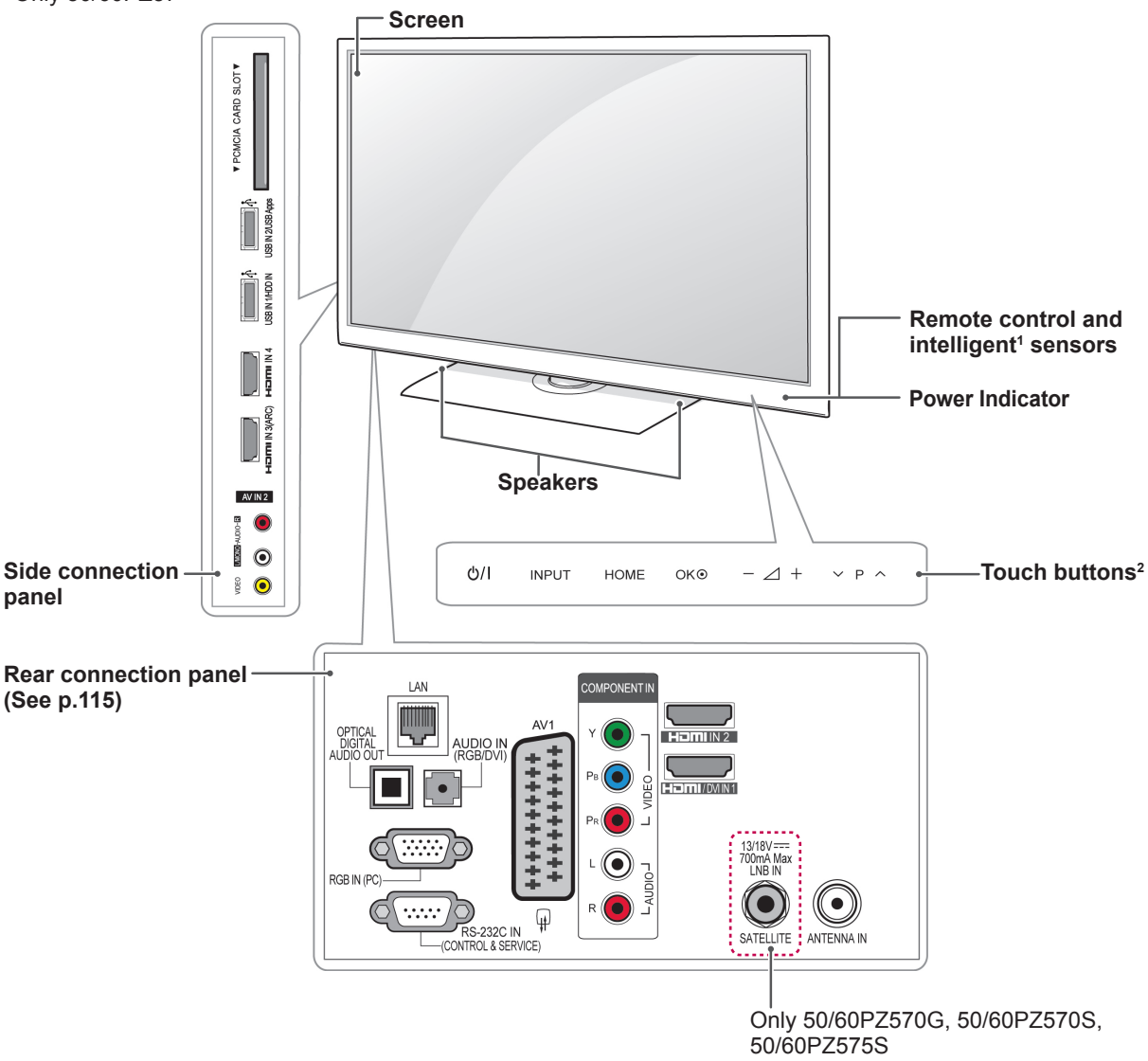
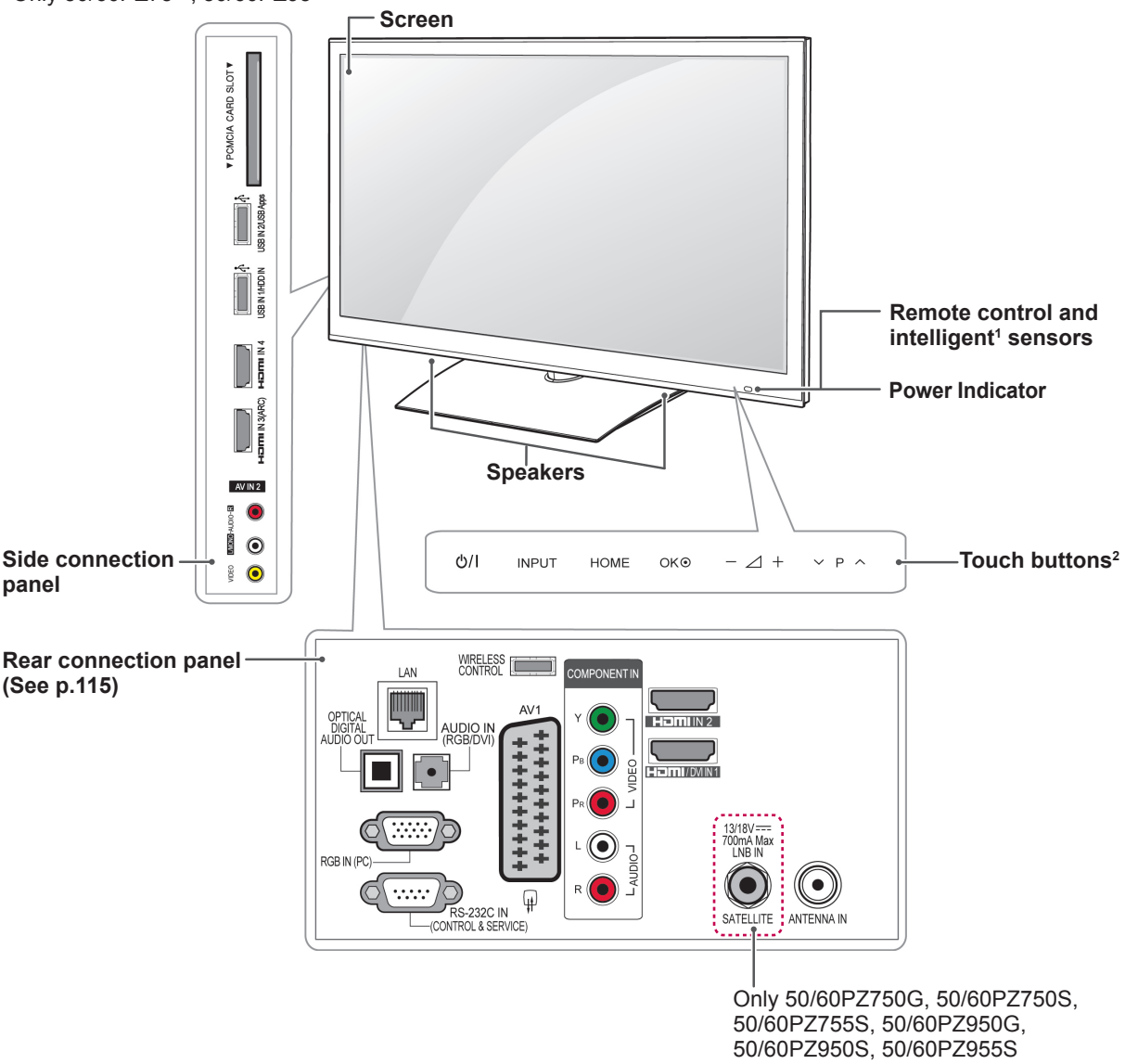
Only 50/60PZ57**



Touch button[2]	Description
⏻/I	Turns the power on or off.
INPUT	Changes the input source.
HOME	Accesses the Home menu, or saves your input and exits the menus.
OK	Selects the highlighted menu option or confirms an input.
− ◿ +	Adjusts the volume level.
⌄ P ⌃	Scrolls through the saved programmes.

1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
2 All of the buttons are touch sensitive and can be operated through simple touch with your finger.

Only 50/60PZ75**, 50/60PZ95**



Touch button[2]	Description
⏻/I	Turns the power on or off.
INPUT	Changes the input source.
HOME	Accesses the Home menu, or saves your input and exits the menus.
OK⊙	Selects the highlighted menu option or confirms an input.
− ◿ +	Adjusts the volume level.
⌄ P ⌃	Scrolls through the saved programmes.

1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
2 All of the buttons are touch sensitive and can be operated through simple touch with your finger.

Lifting and moving the TV

Please note the following advice to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

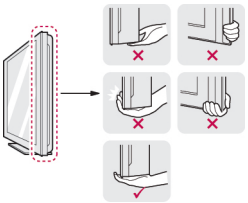
CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.

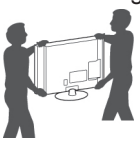
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



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



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



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

Setting up the TV

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

Attaching the stand

If you are not mounting the TV to a wall, use the following instructions to attach the stand.

Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**

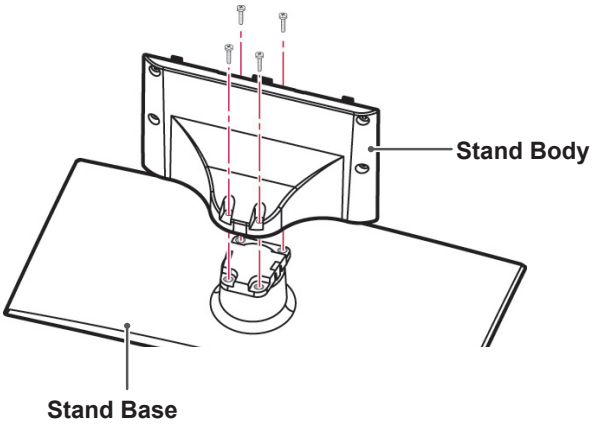
1 Lay the TV with the screen side down on a flat surface.

CAUTION

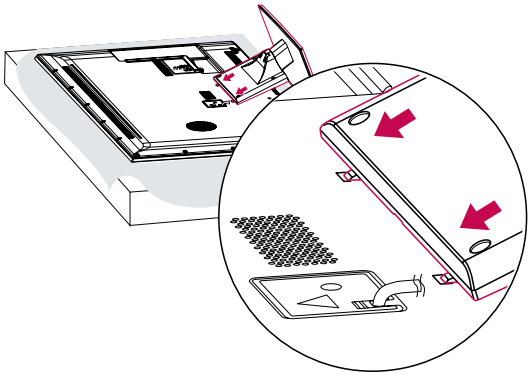
- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

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

Model	Screw for assembly	Number of screws
32/37/42/47LV37** 32/37/42/47LV47** 32/42/47/55LW47**	M4 x 12	4

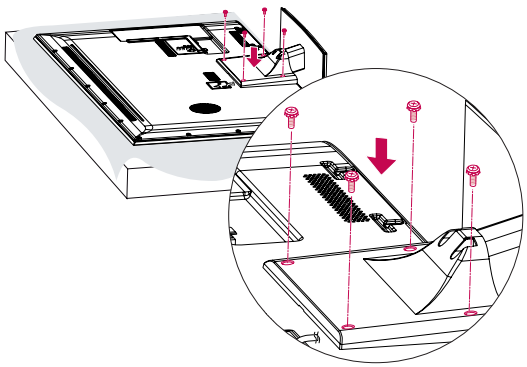


3 Assemble the TV as shown.



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

Model	Screw for assembly	Number of screws
32/37/42/47LV37** 32/37/42/47LV47** 32/42/47/55LW47**	M4 x 12	4



CAUTION

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

Only 47LK95**

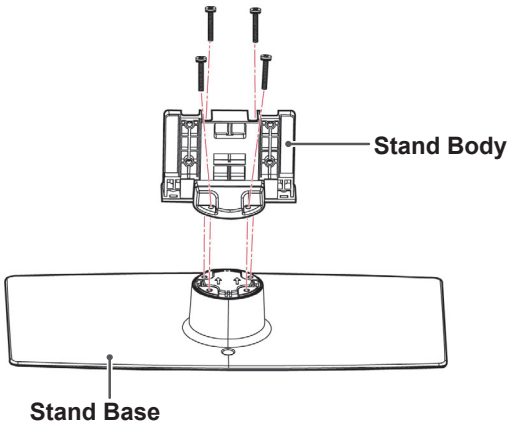
1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

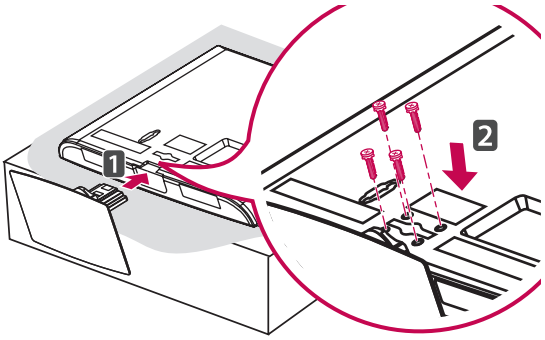
2 Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.

Model	Screw for assembly	Number of screws
47LK95**	M4 x 20	4



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

Model	Screw for assembly	Number of screws
47LK95**	M4 x 20	4



CAUTION

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

ENGLISH

Only 50/60PZ57**

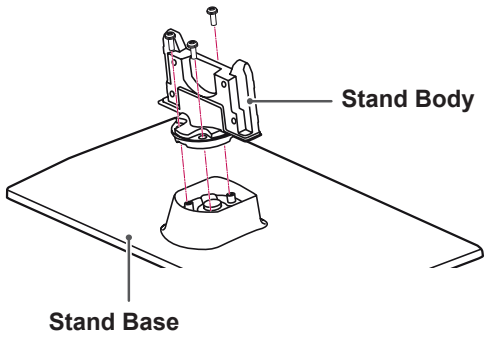
1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

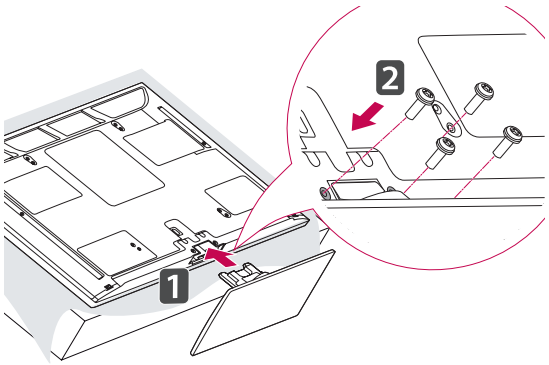
2 Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.

Model	Screw for assembly	Number of screws
50PZ57**	M5 x 14.5	3
60PZ57**	M5 x 24	3



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

Model	Screw for assembly	Number of screws
50PZ57**	M4 x 26	4
60PZ57**	M4 x 28	4



CAUTION

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

Only 50/60PZ75**, 50/60PZ95**

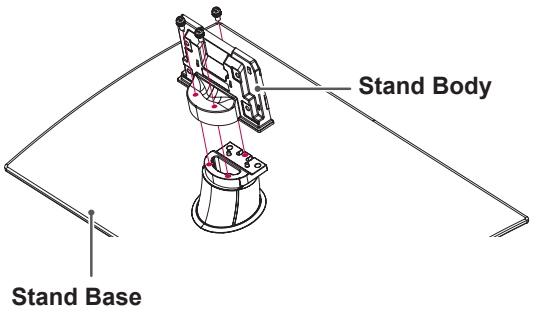
1 Lay the TV with the screen side down on a flat surface.

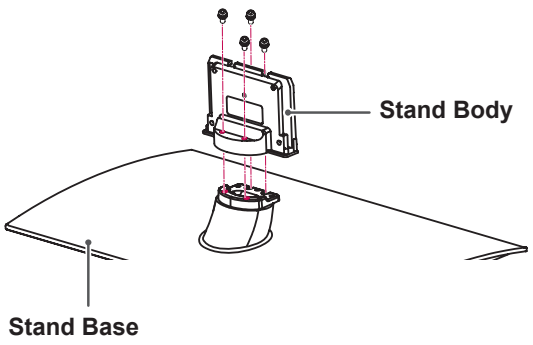
CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

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

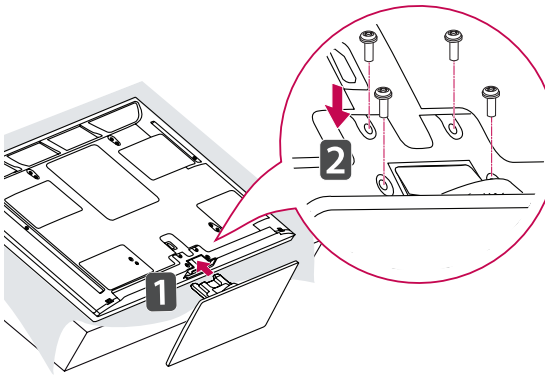
Model	Screw for assembly	Number of screws
50PZ75** 50PZ95**	M5x14.5	3
60PZ75** 60PZ95**	M5x14.5	4





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

Model	Screw for assembly	Number of screws
50PZ75** 50PZ95**	M4 x 26	4
60PZ75** 60PZ95**	M4 x 28	4



CAUTION

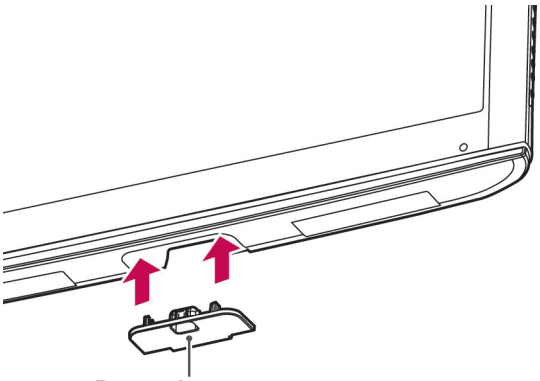
- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Not using the Desk-Type stand

Only 47LK95**

When installing the wall mounting bracket, use the Protection cover. This will protect the opening from accumulating dust and dirt.

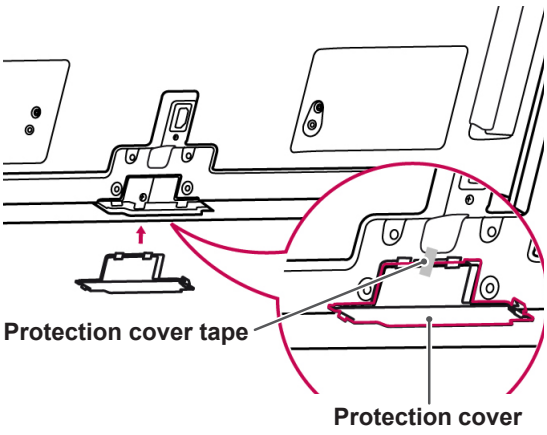
- Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.



Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**

When installing the wall mounting bracket, use the protection cover. This will protect the opening from accumulating dust and dirt.

- Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.
- Attach the protection cover tape.

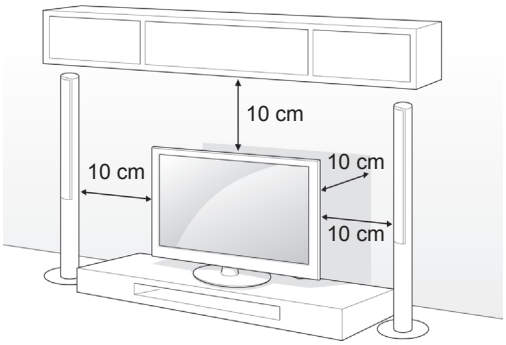


ENGLISH

Mounting on a table

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

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



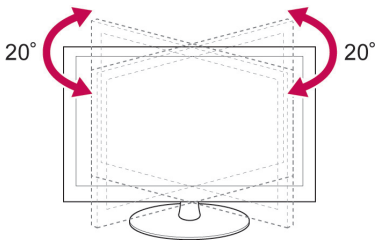
2 Connect the power cord to a wall outlet.

CAUTION

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

NOTE

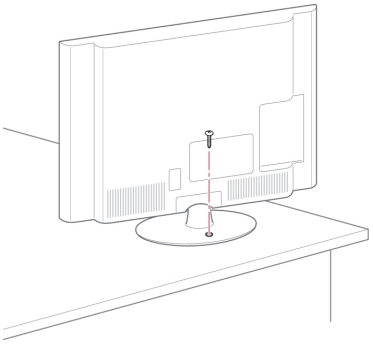
- Swivel 20 degrees to the left or right and adjust the angle of the TV to suit your view.



Securing the TV to a table

Only 32/37LV37**, 32/37LV47**, 32LW47**

Fix the TV to a table to prevent from tilting forward, damage, and potential injury.
Mount the TV on a table, and then insert and tighten the supplied screw on the rear of the stand.

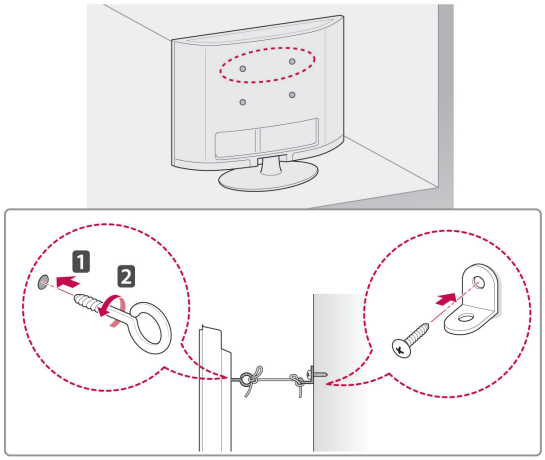


WARNING

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

Securing the TV to a wall

(This feature is not available for all models.)



1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
- If there are bolts inserted at the eye-bolts position, remove the bolts first.

2 Mount the wall brackets with the bolts to the wall.
Match the location of the wall bracket and the eye-bolts on the rear of the TV.

3 Connect the eye-bolts and wall brackets tightly with a sturdy rope.
Make sure to keep the rope horizontal with the flat surface.

CAUTION

- Make sure that children do not climb on or hang on the TV.

NOTE

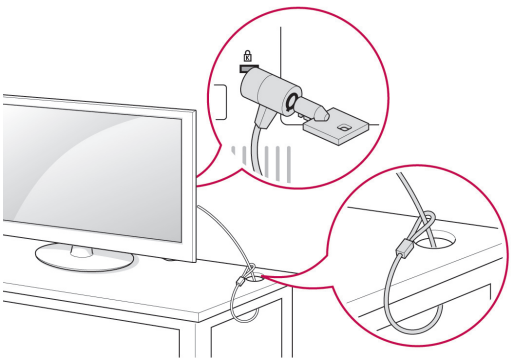
- Use a platform or cabinet that is strong and large enough to support the TV securely.

Using the Kensington security system

(This feature is not available for all models.)

The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit http://www.kensington.com.

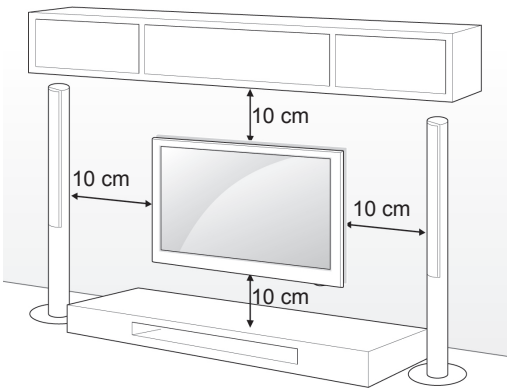
Connect the Kensington security system cable between the TV and a table.



ENGLISH

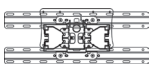
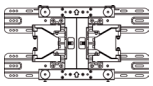
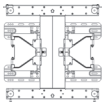
Mounting on a wall

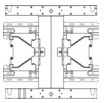
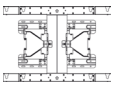
Attach a wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.
LG recommends that wall mounting be performed by a qualified professional installer.

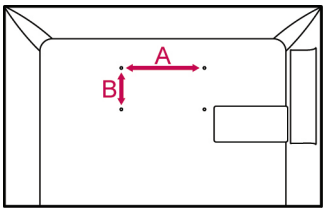


Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase(Wall Mounting Bracket)

Model	32LV37** 32LV47** 32LW47**	37LV37** 37LV47** 47LK95**
VESA (A x B)	200 x 100	200 x 200
Standard screw	M4	M6
Number of screws	4	4
Wall mount bracket	LSW100B, LSW100BG 	LSW200B, LSW200BG 
Model	42/47LV37** 42/47LV47** 42/47/55LW47**	
VESA (A x B)	400 x 400	
Standard screw	M6	
Number of screws	4	
Wall mount bracket	LSW400B, LSW400BG 	

Model	50PZ57** 50PZ75** 50PZ95**	60PZ57** 60PZ75** 60PZ95**
VESA (A x B)	400 x 400	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket	PSW400B, PSW400BG 	PSW600B, PSW600BG 



CAUTION

- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in injury. Use an authorized LG wall mount bracket and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV and void your warranty.
- Use the screws and wall mount bracket that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

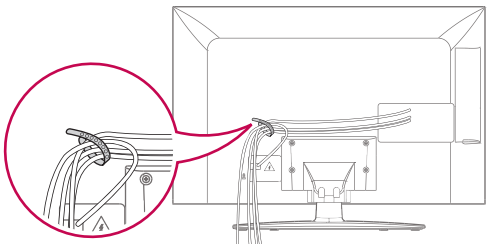
NOTE

- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount bracket.

Tidying cables

Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**

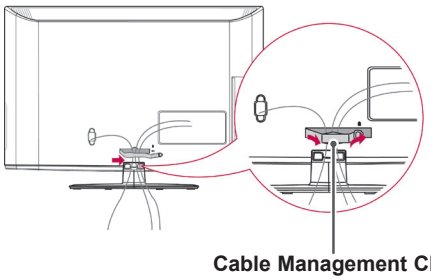
1 Gather and bind the cables with the **Cable Holder** on the TV back cover.



Only 47LK95**

1 Gather and bind the cables with the cable management clip.

2 Fix the cable management clip firmly to the TV.

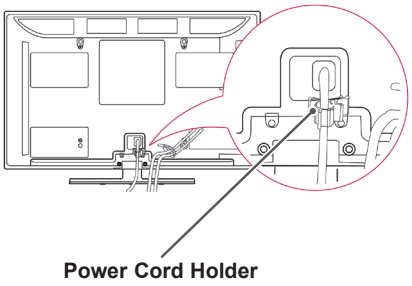


NOTE

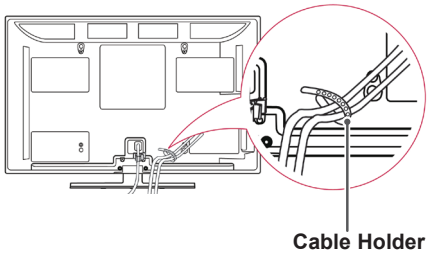
- Do not move the TV by holding the cable management clip, as the cable management clip may break, and injuries and damage to the TV may occur.

Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**

1 Install the **Power Cord Holder** and **Power Cord**. It will help prevent the power cable from being removed by accident.



2 Gather and bind the cables with the **Cable Holder**. Install the LAN cable as shown to reduce the electromagnetic wave.



CAUTION

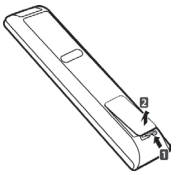
- Do not move the TV by holding the **Cable Holder** & **Power Cord Holder**, as the Cable holders may break, and injuries and damage to the TV may occur.

ENGLISH

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

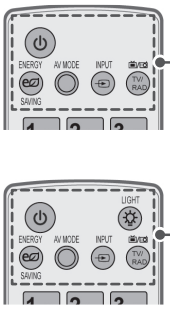
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control toward the remote control sensor on the TV.



To remove the batteries, perform the installation actions in reverse.

CAUTION

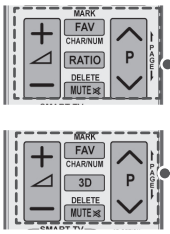
- Do not mix old and new batteries, as this may damage the remote control.



⏻ (POWER)
Turns the TV on or off.
LIGHT
Illuminates the remote control buttons.
ENERGY SAVING (See p.99)
Adjusts the brightness of the screen to reduce energy consumption.
AV MODE (See p.43)
Selects an AV mode.
INPUT (See p.44)
Changes the input source; Turns the TV on.
TV/RAD
Selects Radio, TV and DTV programme.



Alphanumeric buttons
Enters letters and numbers.
LIST (See p.40)
Accesses the saved programme list.
⎵ (Space)
Opens an empty space on the screen keyboard.
Q.VIEW
Returns to the previously viewed programme.



+ -
Adjusts the volume level.

MARK
Selects a menu or option.

FAV (See p.41)
Accesses your favourite programme list.

CHAR/NUM
Switches between Letter and Number input modes.

3D (Only 3D models) (See p.93)
Uses for viewing 3D video.

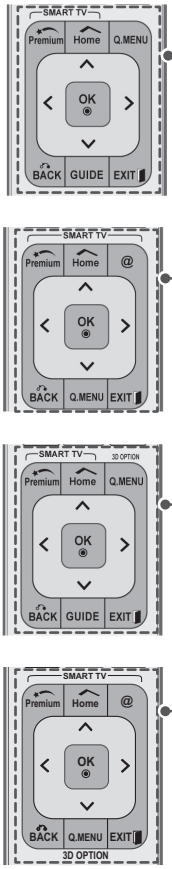
RATIO (See p.42)
Resizes an image.

DELETE
Deletes letters and numbers.

MUTE
Mutes all sounds.

P
Scrolls through the saved programmes.

PAGE
Moves to the previous or next screen.



Premium
Accesses the Premium menus.

Home
Accesses the Home menu.

Q. MENU (See p.45)
Accesses the Quick menus.

3D OPTION (Only 3D models) (See p.93)
Used for viewing 3D video.

@
Direct access to your internet portal of entertainment and news services developed by Orange. (Only France)

Navigation buttons (up/down/left/right)
Scrolls through menus or options.

OK
Selects menus or options and confirms your input.

BACK
Returns to the previous level.

GUIDE
Shows programme guide.

EXIT
Clears all on-screen displays and return to TV viewing.

ENGLISH



Coloured buttons
These access special functions in some menus.



TELETEXT BUTTONS (See p.126)
These buttons are used for teletext.
For further details, see the 'Teletext' section.



SUBTITLE
Recalls your preferred subtitle in digital mode.

Control buttons (■, ▶, ❚❚, ◀◀, ▶▶)
Controls the Premium contents, DVR or Smart Share menus or the SIMPLINK compatible devices (USB or SIMPLINK or DVR).

LIVE TV (See p.80)
Return to the LIVE TV.

FREEZE
Freezes the current frame while using the TV, AV, Component, RGB-PC, or HDMI input source.

REC
Uses to adjust DVR menu.

INFO (See p.91)
Views the information of the current programme and screen.

AD
Switches the Audio Description On or Off.

RATIO (See p.42)
Resizes an image.

GUIDE
Shows programme guide.

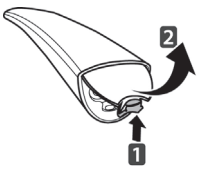
SIMPLINK (See p.124)
Accesses the AV devices connected to the TV;
Opens the SIMPLINK menu.

APP/*
Select the MHP TV menu source. (Only Italy)
(Depending on model)

Magic Motion Remote Control Functions

This item is not included for all models.

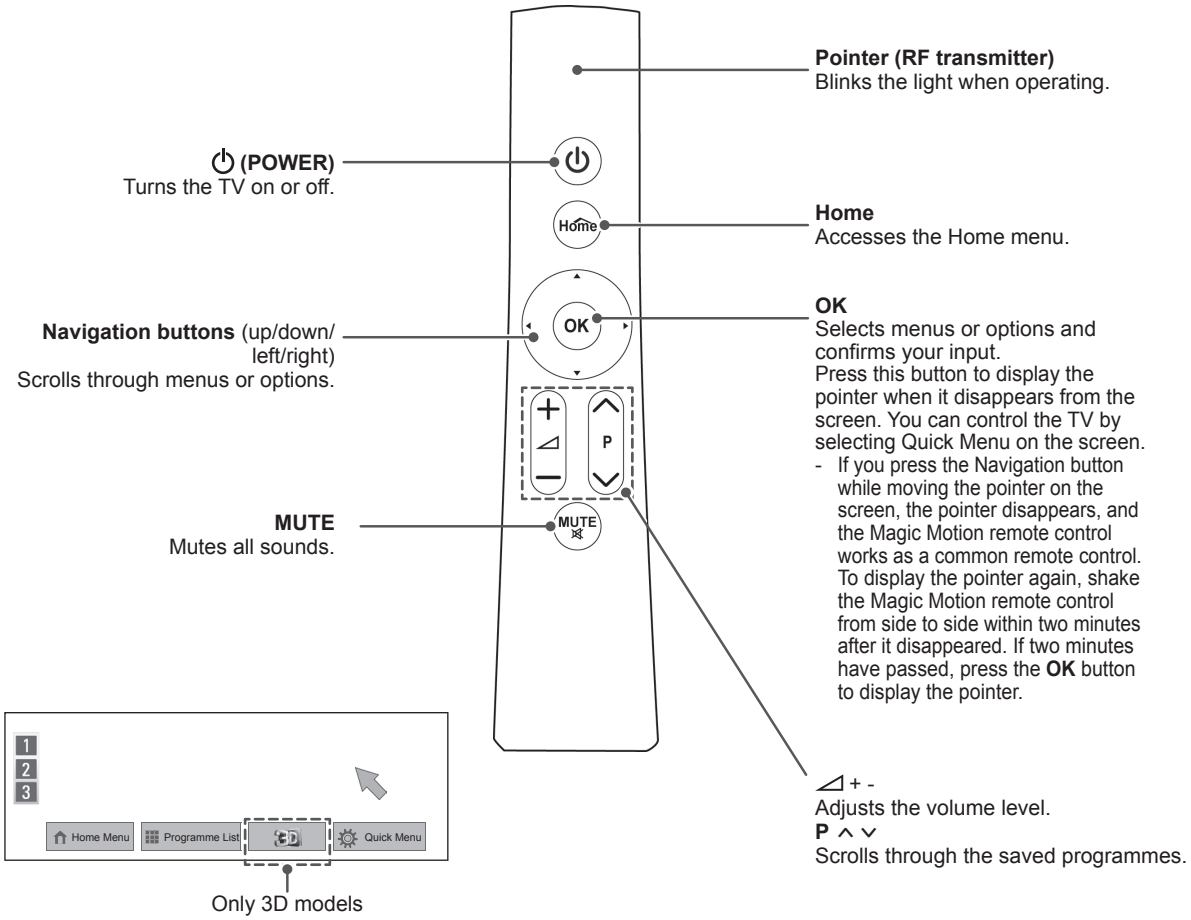
Refer to the Magic Motion Remote Control manual for operating instructions.
Please read this manual carefully and use the TV correctly.
When the message "Magic motion remote control battery is low. Change the battery." is displayed, replace the battery.
To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control toward the remote control sensor on the TV.



To remove the batteries, perform the installation actions in reverse.

CAUTION

- Do not mix old and new batteries, as this may damage the remote control



ENGLISH

Registering Magic Motion remote control

It is necessary to ‘pair’ (register) the Magic Motion remote control to your TV before it will work.

How to register the Magic Motion remote control

To register the remote control, press the **OK** button on the remote control while aiming it at your TV.

How to re-register the Magic Motion remote control after registration failure

Reset the remote control by pressing and holding both the **OK** and **MUTE** buttons for 5 seconds. (Once the reset is complete, the light on the pointer blinks.) Then repeat the above procedure to register the remote control.

How to use Magic Motion Remote Control

1 Press **OK** button if there is no pointer on your TV screen. The pointer will then appear on the screen.

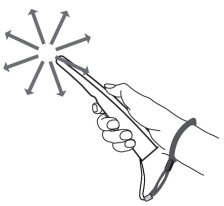
If the pointer has not been used for a certain period of time, it will disappear.

2 You can move the pointer by aiming the Pointer Receiver of the remote control at your TV then move it left, right, up or down.

If the pointer does not work properly after clicking the **OK** button, leave the remote control for 10 seconds then use it again.

Precautions to Take when Using the Magic Motion Remote Control

- Use the remote control within the maximum communication distance (10 m). Using the remote control beyond this distance, or with an object obstructing it, may cause a communication failure.
- A communication failure may occur due to nearby devices. Electrical devices such as a microwave oven or wireless LAN product may cause interference, as this will use the same bandwidth (2.4 GHz) as the Magic Motion Remote Control.
- The Magic Motion Remote Control may be damaged or may malfunction if it is dropped or receives a heavy impact.
- When playing a game using the Magic Motion Remote Control, hold it securely by wrapping its strap around your wrist and adjusting the length with the adjustable ring.
- Take care not to bump into nearby furniture or other people when using the Magic Motion Remote Control.
- Manufacturer and installer cannot provide service related to human safety as the applicable wireless device has possibility of electric wave interference.
- It is recommended that an Access Point (AP) be located more than 1 m away from the TV. If the AP is installed closer than 1 m, the magic motion remote control may not perform as expected due to frequency interference.



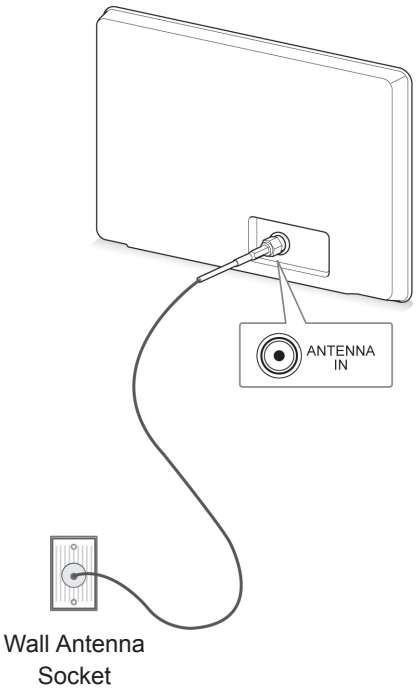
WATCHING TV

Connecting to an antenna

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

Connecting an antenna

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



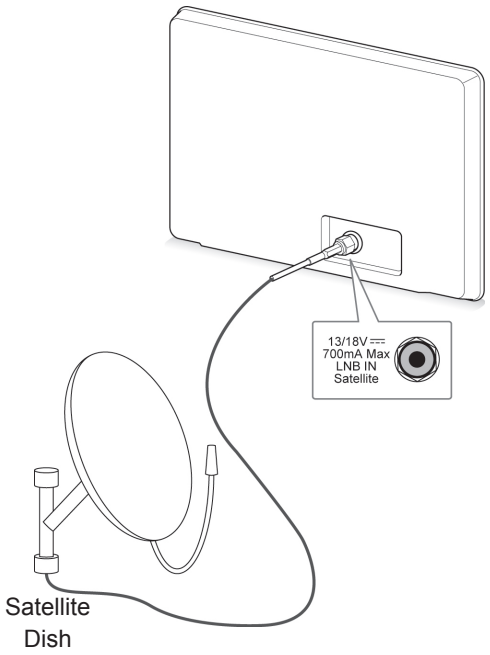
NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.

Connecting with a satellite dish

(Only satellite models)

Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).



ENGLISH

Turning the TV on for the first time

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

1 Connect the power cord to a power outlet.

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

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

NOTE

- You can also access **Factory Reset** by accessing **OPTION** in the Home menu-SETUP.

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

Language	Selects a language to display.
⇩	
Mode Setting	Selects **Home Use** for the home environment.
⇩	
Power Indicator	Sets the power indicator. (When you select Home Use from Mode Setting - only LED LCD TV)
⇩	
Country	Selects a country to display. (Depending on model)
⇩	
Time Zone	Selects the time zone and daylight saving. (When Russia is selected for Country)
⇩	
Set Password	Sets the password. (When France is selected for Country)
⇩	
Auto Tuning	Scans and saves available programmes automatically.

NOTE

- For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.
- When France is selected for Country, password is not ‘0’, ‘0’, ‘0’, ‘0’ but ‘1’, ‘2’, ‘3’, ‘4’.
- To display images in the best quality for your home environment, select **Home Use**.
- **Store Demo** is suitable for the retail environment.
- If you select **Store Demo**, any customized settings will switch back to the default settings of **Store Demo** in 5 minutes.

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

NOTE

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

5 To turn the TV off, press ⏻ **(POWER)**.

Watching TV

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

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

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

Accessing the Home menu

1 Press **Home** to access the Home menu.

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

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

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



Option	Description
❶	Current Date, Time
❷	Channel programme info
❸	Function card: You can enjoy various content files by selecting each card and you can edit the premium card by selecting 5 items.
❹	Function card position
❺	Sign In
❻	Exit
❼	Current watching channel screen
❽	INPUT, SETUP, GUIDE menu.
❾	Launcher bar

ENGLISH

Managing programmes

Automatically setting up programme

Selecting Antenna,

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

1 Press **Home** to access the Home menu.

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

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

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

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

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

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- You can store up to 1,200 programmes (Except for Satellite models) or 6,000 programmes(Only satellite models). The number of programmes that you can store differs depending on the broadcasting signal environment.
- When select **Italy** in the Country menu, if the pop up is displayed when the conflicted programme after Auto Tuning, select a broadcaster for conflicting programme number to solve.
- When select **UK** in the Country menu, if the pop up is displayed when the conflicted programme after Auto Tuning, select a regions, country for conflicting programme number to solve.
- When selected **Norway** in the Country menu, If Network name is recognized more than two after Auto Tuning, you can select your desired one. Programme lists are arranged based on the selected Network name. (Only Nordic models)
- In the following country, DVB cable can be used : Germany, Netherlands, Sweden, Switzerland, Denmark, Austria, Finland, Norway, Slovenia, Hungary, Ukraine, Bulgaria, Ireland, Poland, Romania, Russia, Lithuania, Estonia, Latvia, Spain, Czech. (The supported country can be added.)

Selecting Cable,

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Cable** and press **OK**.

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

7 Press the Navigation buttons or Number buttons to scroll make appropriate adjustments and press **OK**.

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

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- Use this to automatically find and store all available programmes. When you start auto programming, all previously stored service information will be deleted.
- When you select the **Cable**, the **Cable Service Operator** selection screen can differ or not exist by the Cable situation of the applicable country.
- The popup window to select **Service Operator** is only shown initially for the 3 cases when you accessing the **Initial Setting** menu, when you change from **Antenna** to **Cable** or when you access the menu after changing the **Country**.
- When you want to select Service Operator aside from the above 3 cases, you can do so by selecting **Setup** -> **Cable DTV Setting** -> **Service Operator**.

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- Acquired certification SO : Sweden(Comhem, Canal Digital), Denmark(YouSee, Canal Digital, Stofa), Norway(Canal Digital), Netherlands(Ziggo, UPC Digitaal), Ukraine(Volia-Cable), Germany(KDG), Switzerland(CableCom, UPC), Austria(UPC Digital), Hungary(UPC Digital), Ireland(UPC Digital), Poland(UPC Digital), Romania(UPC Digital), Russia(OnLime).
- If there are not any Service Operator that you want, select **Other Operators**.
- If you select "**Other Operators**", or the selected country supports "**Other Operators**" only, it may take some time to search all the channels, or it may not search some of the channels.

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

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

Selecting Satellite,
(Only satellite models)

1. Press **Home** to access the Home menu.
2. Press the Navigation buttons to scroll to **SETUP** and press **OK**.
3. Press the Navigation buttons to scroll to **SETUP** and press **OK**.
4. Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.
5. Press the Navigation buttons to scroll to **Satellite** and press **OK**.
6. Press the Navigation buttons to scroll make appropriate adjustments and press **OK**.
7. Select **Start** to start automatic tuning. The TV scans and saves available programmes automatically.
8. When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

NOTE

- **Programme Type** : You can select **All Programmes**, **FTA Programme** or **Paid Programme**.
- **Network Search** : You can search through both an existing **Transponder List** and the **Transponder List** that was transmitted via **NIT**.
- You can change the **Setting ID** Info from the **Setting** menu.
- You can **Add/Delete** the **Setting ID** from the **SETUP** -> **Satellite DTV Setting** menu.
- If more than 6000 programmes are stored, you cannot store any more programmes. To add programmes, delete the unused setting IDs in **SETUP** -> **Satellite DTV Setting** and tune the TV again.

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Selecting Antenna & Satellite,

(Only satellite models)

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Antenna & Satellite** and press **OK**.

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

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

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

Selecting Cable & Satellite,

(Only satellite models)

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Cable & Satellite** and press **OK**.

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

7 Press the Navigation buttons to select your desired cable setting and press **OK**.

8 Press the Navigation buttons to select your desired satellite setting and press **OK**.

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

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

Cable DTV Setting

(In Cable, Cable & Satellite(-Only satellite models) mode only)

The range that a user can select from the Service Operator menu differs depending on number of Service Operator supported by each country, and if number of supported Service Operator for each country is 1, corresponding function becomes non-activation.

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Service Operator** or **Channel Auto update** and press **OK**.

6 Select your desired Source.

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

NOTE

- When **Channel Auto Update** is **On**, you can update information for all the programmes that can be updated, including the programme currently being watched.
- When **Channel Auto Update** is **Off**, you can only update information for the programme currently being watched.
- You can not select the **Cable DTV Setting** when the service operator is set to "**Ziggo**".

Satellite DTV Setting

(In Satellite, Antenna & Satellite, Cable & Satellite mode only-Only satellite models)

You can add or delete a satellite setting ID.

1 Press **Home** to access the Home menu.

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

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

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

5 Select your desired setting ID.

You can change the following settings for each setting ID for your preferences.

Option	Description
Satellite	Select your desired Satellite.
LNB Frequency	Select one value from **Universal**, **9750**, **10600**, **5150**. If you select **Universal** for LNB Frequency which is 9750/10600(MHz), **22KHz Tone** is disabled. If you cannot find the LNB frequency value from the list, select **User** and manually enter the frequency.
22KHz Tone	When using 22KHz Tone switch, select **A** or **B**. If you use 22KHz Tone, **Tone Burst** and **Motorized System** are disabled.
Tone Burst	When using Tone Burst switch, select **A** or **B**. If you use Tone Burst, **22KHz Tone** and **Motorized System** are disabled.
LNB Power	To enable the power supply for the LNB, select **On**. If you select **Off**, **Motorized System** is disabled.
DiSEqC	When using DiSEqC, select one option from **DiSEqC A~D**. If you use DiSEqC, **Motorized System** is disabled.
Motorized System	When using the motor, select **On**. To set the antenna position, press **OK** button and move the motor. If you use the motor, **22KHz Tone**, **Tone Burst** and **DiSEqC** are disabled.

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6 If you select **Motorized System** to **On**, select your desired source.

Option	Description
Drive Direction	Select the direction in which you want to move the motor.
Drive Mode	Two modes are available: Step and Continuous. • **Step**: The motor moves based on the value you enter (from 1 to 128). • **Continuous**: The motor moves continuously until you press the "Stop".
Test TP	Select the test TP you want to tune.
Set Limit	Set the motor movement to east or west to have the motor move only within the direction set. • **On**: You can limit the movement to the current direction by selecting the "West/East". • **Off**: You can cancel the limit you set.
Go To Zero	You can move the motor to "Zero".
Store	You can save the motor's current direction.

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

NOTE

- If you set **Satellite** to **Others** when adding a setting ID, you must add a transponder using **Manual Tuning**.
- You can add up to 16 setting IDs.
- All setting IDs can be deleted, except for **Setting ID 1**.
- When selecting **22KHz Tone** and **DiSEqC**, or **Tone Burst** and **DiSEqC**, you must connect them in the same position as displayed on the OSD.
- If you delete a setting ID, all programmes stored in the setting ID are deleted.

Tivu Programme List Update

(In Satellite, Antenna & Satellite, Cable & Satellite mode only-Only satellite models)(Only Italy)

1 Press **Home** to access the Home menu.

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

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

4 Press the Navigation buttons to scroll to **Tivu Programme List Update** and press **OK**.

5 Press the Navigation buttons to scroll to **Off** or **On**.

NOTE

- It updates the changed Programme List information by based on country broadcasting circumstance and satellite.
- It updates the Programme List when the TV turn off all the time. After updates, the Programme List may be changed. If not want, select **Off**.

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Manually setting up programme (In digital mode)

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

Selecting Antenna,

1 Press **Home** to access the Home menu.

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

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

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

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

6 Scroll through the programme types, and then add programmes.

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- You can select **SBAND** when the country is set to "Norway, Latvia."

Selecting Cable,

(In Cable, Cable & Satellite(-Only satellite models) mode only)

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Cable DTV**.

6 Make appropriate adjustments.

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- **Symbol rate** : Enter a user-defined symbol rate (Symbol rate: Speed at which a device such as modem sends symbols to a channel).
- **Modulation** : Enter a user-defined modulation. (Modulation: Loading of audio or video signals onto carrier).
- You can not select the **Cable DTV** when the service operator is set to "**Ziggo**" or "**Other Operators**" of Netherlands.

ENGLISH

Selecting Satellite,

(In Satellite, Antenna & Satellite, Cable & Satellite mode only-Only satellite models)

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **Satellite DTV**.

6 Make appropriate adjustments.

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- **Transponder** : If there is no transponder to use, you can add a transponder by logging in as **User**.
- If more than 2000 transponders are stored, you cannot add any more transponders. To add transponders, delete the unused setting IDs in **SETUP** -> **Satellite DTV Setting** and try again.
- If there is no transponder, you cannot use **Auto Tuning**. In this case, you must add a transponder using **Manual Tuning**.

Manually setting up programme (In analogue mode)

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

1 Press **Home** to access the Home menu.

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

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

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

5 Press the Navigation buttons to scroll to **TV** or **Cable TV** or **Cable DTV** or **Satellite DTV**.

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

7 Press the Navigation buttons to scroll to TV System.

8 Press the Navigation buttons to scroll to **V/UHF** or **Cable**.

9 Press the Navigation buttons or Number buttons to scroll to the desired channel number.

10 Press the Navigation buttons to scroll and start searching**.**

11 Press the Navigation buttons to scroll to **Store** and press **OK.**

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

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- **L** : SECAM L/L' (France) (Except for DVB-T2 support models)
- **BG** : PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa)
- **I** : PAL I (U.K. / Ireland / Hong Kong / South Africa)
- **DK** : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
- To store another channel, repeat steps 6 to 11.

Assigning a station name

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

1 Press **Home** to access the Home menu.

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

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

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

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

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

7 Press the Navigation buttons to scroll to select the position and make your choice of the second character, and so on. You can use an the alphabet A to Z, the number 0 to 9, +/ -, and blank and press **OK**.

8 Press the Navigation buttons to scroll to **Close** and press **OK**.

9 Press the Navigation buttons to scroll to **Store** and press **OK**.

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

Fine Tuning

(Except for Satellite models)
Normally fine tuning is only necessary if reception is poor.

1 Press **Home** to access the Home menu.

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

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

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

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

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

7 Fine tune for the best picture and sound.

8 Press the Navigation buttons to scroll to **Store** and press **OK**.

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

Editing your programme list

When a programme number is skipped, it means that you will be unable to select it using **P** ∧ ∨ button during TV viewing.
If you wish to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the Programme edit menu.
This function enables you to skip the stored programmes.

1 Press **Home** to access the Home menu.

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

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

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

5 Edit programmes using the following buttons.

Button	Description	
∧	Highlight the programme type.	
∧ ∨ < >	Scrolls through programme types or programmes.	
OK	Edits programmes.	
	Watch	Selects the highlighted programme to view.
	Set as Favourite	Registers or cancels the current programme in favourite programme list.
	Skip	Selects a programme number to be skipped.
	Add/Delete (Only Analogue mode)	Adds or deletes a programme. The deleted programme displays in blue.
	Move (Only Analogue mode)	Moves a programme.
	Programme Number Edit (Only Digital mode)	Selects your desired programme number.
	Block	Blocks or unblocks a programme.
P ∧ ∨	Moves to the previous or next page.	
Red button	Selects your desired favourite programme group.	
Green button	Starts Auto Sort. (Only Analogue mode) Starts Satellite Programme Sort. (Only Satellite DTV, Satellite Radio mode)	

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

Selecting a programme on the programme list

1 Press **LIST** to access the programme list.

Button	Description
< >	Selects programme list or recent programme list.
∧ ∨	Scrolls through programme.
OK	Selects the highlighted programme to view.
P ∧ ∨	Moves to the previous or next page.
Red button	Edits programmes.
TV/RAD	Selects a desired programme mode.
FAV	Moves to the favourite programme list.

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

NOTE

- If you select the blocked programme, you will be prompted to enter your password.

Booster

(Except for Satellite models)

If reception is poor select Booster to **On**.
When the signal is strong, select **Off**.

1 Press **Home** to access the Home menu.

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

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

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

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

Using favourite programmes

Add the programmes that you watch frequently to the favourite list.

1 Select a programme to add to the favourite list.

2 Press **FAV**.

Button	Description
< >	Selects a desired favourite programme group.
P ∧ ∨	Moves to the previous or next page.
Red button	Moves to the **Programme Edit**.
Green button	Register or cancel the current programme.
TV/RAD	Selects a desired programme mode.
FAV	Moves to the **Programme List**.

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

CI [Common interface] Information

This function enables you to watch some encrypted services (pay services). If you remove the CI Module, you cannot watch pay services.
When the module is inserted into the CI slot, you can access the module menu.
To purchase a module and smart card, contact your dealer. Do not repeatedly insert or remove a CI module from the TV. This may cause a malfunction. When the TV is turned on after inserting a CI Module, you may not have any sound output.

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

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

When using a CAM(Conditional Access Module), please make sure it meets fully the requirements of either DVB-CI or CI plus.
A abnormal process of CAM(Conditional Access Module) may cause a bad picture.

1 Press **Home** to access the Home menu.

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

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

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

5 Select the desired item: Module information, smart card information, language, or software download etc and press **OK**.

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

NOTE

- 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.

ENGLISH

Using additional options

Adjusting aspect ratio

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

NOTE

- You can also change the image size by pressing **Q. MENU** or accessing **Aspect Ratio** in the **PICTURE** menus.
- You can adjust the enlarge proportion using the Navigation buttons.
- You can only select **4:3**, **16:9** (Wide), **14:9**, **Cinema Zoom** in Component mode.
- You can only select **4:3**, **Original**, **16:9** (Wide), **14:9**, **Cinema Zoom** in HDMI mode.
- You can only select **4:3**, **16:9** (Wide) in RGB-PC, HDMI-PC mode only.
- In DTV/HDMI/Component (over 720p) mode, **Just Scan** is available.
- In Analogue/DTV/AV/Scart mode, **Full Wide** is available.

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



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



NOTE

- If you select **Just Scan**, you may see image noises at the edge or edges of the screen.

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



- **Full Wide**: When TV receives the wide screen signal, it will let you adjust the picture horizontally or vertically, in a linear proportion,to fill the entire screen fully.

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



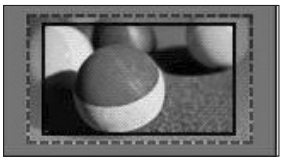
- **4:3**: Resizes images to the previous standard 4:3.



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



- **Cinema Zoom**: Choose Cinema Zoom when you want to enlarge the picture in correct proportion.
  - To change the ratio of the cinema zoom, press < > and its range is from 1 to 16.
  - To move the zoom focus up or down, press ^ v.



NOTE

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

Changing AV modes

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

Mode	Description
Off	Changes to the previously customized settings.
Cinema or **THX Cinema**	Use the optimized image and sound settings for the cinematic look.
Sport (Only Plasma TV)	Use the optimized image and sound settings for dynamic action sports.
Game	Use the optimized image and sound settings for fast gaming. When playing a video game using PlayStation or Xbox, it is recommended to use the **Game** mode. When in **Game** mode, functions related to picture quality will be optimized for playing games.

Using the input list

Selecting an input source

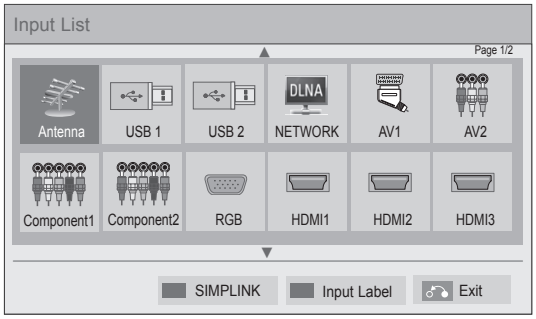
1 Press **INPUT** to access the input sources.
- The connected device displays on each input source.

NOTE

- You can also access the input source list by selecting **INPUT** in the Home menu.

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

- Image shown may differ from your TV.

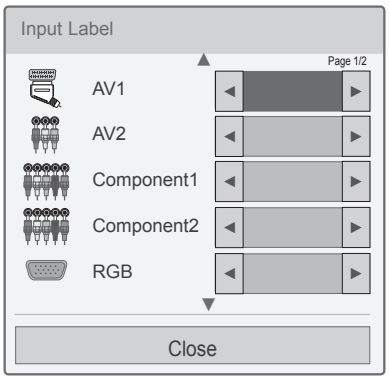


Input source	Description
Antenna or **Cable** or **Satellite**	Watch TV over the air, cable, and digital cable broadcast.
USB	Play media files from a thumb drive.
NETWORK	Play media files from your home network.
AV	Watch video from a VCR or other external devices.
Component	Watch video from a DVD or other external devices, or through a digital set-top box.
RGB	Use the TV as a computer monitor.
HDMI	Watch video from a HTS or other high definition devices.

The disconnected input sources will be gray.
- To add an input label, press the Green button. You can easily identify a device connected to each input source.
- If you connect a new external device to the TV, a pop-up window appears. Select **Yes** on the pop-up window to select an input source.
- To access the SIMPLINK, press the Red button. If you select "**SIMPLINK** and **On**", the pop-up window for the HDMI input will not display.

Adding an Input label

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



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

2 Press Green button.

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

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

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

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

Using the Quick menu

Customize frequently used menus.

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

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

Menu	**Description** (Depending on model)
Aspect Ratio	Changes the image size (16:9, Just Scan, Original, Full Wide, 4:3, 14:9, Cinema Zoom)
Picture Mode	Changes the image mode (Intelligent Sensor, Vivid, Standard, APS, Cinema or THX Cinema or THX Bright Room, Sport, Game, Photo, Expert1, Expert2)
Sound Mode	Changes the sound mode (Standard, Music, Cinema, Sport, Game)
Sleep Timer	Sets the length of time until the TV to turns off.
Subtitle Language	Recalls your preferred subtitle in digital mode.
Audio or **Audio Language**	Changes the sound output.
Audio Description	Switches the Audio Description On or Off.
Energy Saving	Reduces the power consumption by adjusting the screen brightness. (Auto, Intelligent sensor, Off, Minimum, Medium, Maximum, Screen Off)
AV Mode	Sets the optimized image and sound settings (Off, Cinema or THX Cinema, Sport, Game)
Skip Off/On	Sets the Skip Off/On.
MULTIFEED (Only satellite models)	Select video from List for a Multifeed Service.
USB Device	Eject a USB device. The menu is displayed only when the USB device is connected.

NOTE

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

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

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

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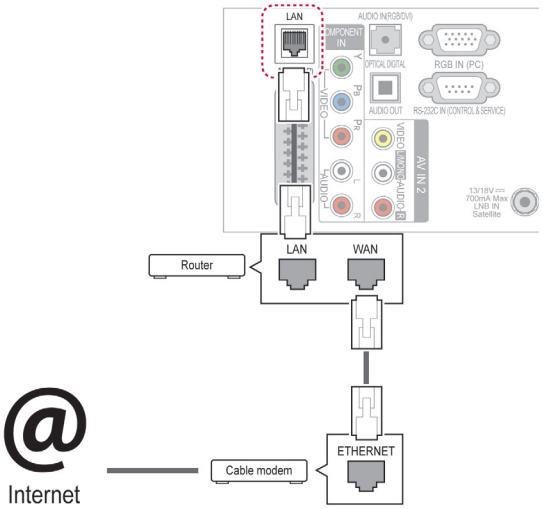
ENTERTAINMENT

Network Connection

Connecting to a wired network

Connect the TV to a local area network (LAN) via the LAN port as shown in the following illustration and set up the network settings.
If wired and wireless networks are both available, wired is the preferred method.
After making a physical connection, a small number of home networks may require the TV network settings to be adjusted. For most home networks, the TV will connect to automatically without any adjustments.
For detail information, contact your internet provider or router manual.



CAUTION

- Do not connect a modular phone cable to the LAN port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.
- After connecting the LAN port, use the Premium or LG Apps menu.

To set up the network settings: (Even if your TV has already connected automatically, running setup again will not harm anything),

1. Press **Home** to access the Home menu.
2. Press the Navigation buttons to scroll to **SETUP** and press **OK**.
3. Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
4. Press the Navigation buttons to select **Network Setting** and press **OK**.
5. If wired and wireless are simultaneously connected, press the Navigation buttons to select **Wired** and press **OK**.
6. If you have already set the Network Setting, select **Resetting**. The new connection settings will reset the current network settings.
7. Select **IP Auto Setting** or **IP Manual Setting**.
   - If selecting **IP Manual Setting**, press the Navigation and Number buttons. IP addresses will need to be input manually.
   - **IP Auto Setting**: Select this if there is a DHCP server (Router) on the local area network (LAN) via wired connection, the TV will automatically be allocated an IP address. If you're using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function. The IP address will automatically be determined.
   - **IP Manual Setting**: Select if there is no DHCP server on the network or you want to set the IP address manually.
8. When you are finished, press **EXIT**.

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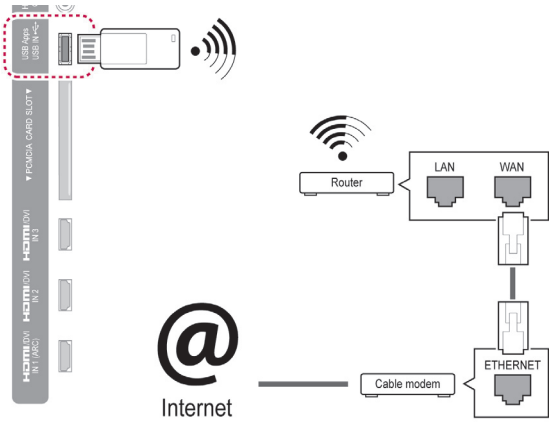
NOTE

- If you want to access the Internet directly on your TV, the broadband internet connection should always be on.
- If you cannot access the Internet,check the network conditions from a PC on your network.
- When you use **Network Setting**, check the LAN cable or check if DHCP in the router is turned on.
- If you do not complete the network settings, the network may not work properly.

Connecting to a wireless network

(Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**, 47LK95**, 50/60PZ75**, 50/60PZ95**)

The LG Wireless LAN for Broadband/DLNA Adaptor, which is sold separately, allows the TV to connect to a wireless LAN network.
The network configuration and connection method may vary depending on the equipment in use and the network environment. Refer to the setup instructions supplied with your access point or wireless router for detailed connection steps and network settings.
Setting up the AP (Access Point) or the wireless router is required before connecting the TV to the network.
The easiest method is the WPS button method (Third method in this section).



NOTE

- For enjoying pictures, music, or video stored on a PC using the router, a wired connection is recommended.
- When the wireless port of the router is used, there may be restrictions on some functions.
- It is recommended that an Access Point (AP) be located more than 1 m away from the TV. If the AP is installed closer than 1 m, the magic motion remote control may not perform as expected due to frequency interference.

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To set up the network settings,

1 Press **Home** to access the Home menu.

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

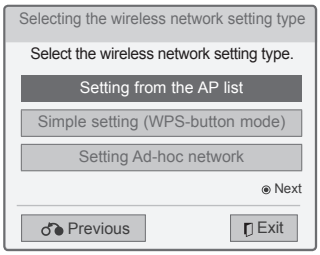
3 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.

4 Press the Navigation buttons to select **Network Setting** and press **OK**.

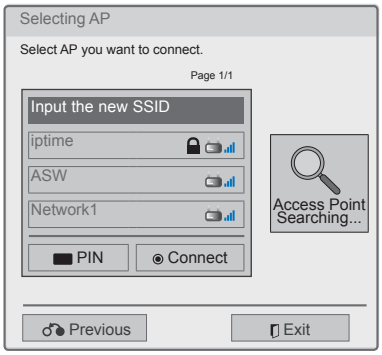
5 Press the Navigation buttons to select **Wireless** and press **OK**.

6 If you already set Network Setting, select **Resetting** and press **OK**.
The new connection settings resets the current network settings.

7 Press the Navigation buttons to select **Setting from the AP list** and press **OK**.
- Scan the all available AP (Access Point) or wireless routers within range and display them as a list.



8 Press the Navigation buttons to select an AP (Access Point) or wireless router on the list. (If your AP is secured, you will prompted for the key.) And press **OK**.



9 Press the Number buttons to Input the security key of AP and press **OK**.

When a security code is already set

PIN (Personal Identification Number)

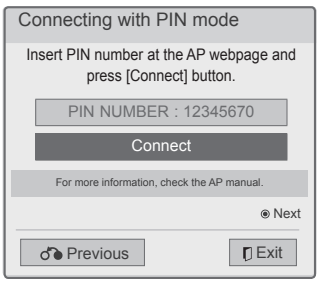
If your router is set to use a PIN, use the following instructions.

1 Repeat step 1-7 on “Connecting to a wireless network”.

2 Press Red button to connect the access point with **PIN** mode.

3 You can see the Network ID and Security Key on your TV screen.
Enter the PIN number to your device.
PIN number is the unique 8 digit number of the dongle.

4 Press **OK** to select **Connect**.



5 Repeat step 6-7 on “Connecting to a wired network”.

WPS (Wi-Fi Protected Setup)

If your router or AP has a WPS button, it is the easiest connection method. You simply press the button on the router and then select the WPS on the TV within 120 seconds.

1 Repeat step 1-7 on “Connecting to a wireless network”.

2 Press the Navigation buttons to select the **Simple setting (WPS-button mode)**.

3 Press the **WPS** button on your router.

4 Go back to the TV and select **Connect**.

5 Repeat step 6-7 on “Connecting to a wired network”.

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Ad-hoc Mode

Ad-hoc mode allows the TV to use a wireless to connect to a computer without using a router or access point.

1 Repeat step 1-5 on “Connecting to a wireless network”.

2 Press the Navigation buttons to select **Setting Ad-hoc network** and press **OK**.

3 Press the Navigation buttons to select **OK** and press **OK**.

4 Press **OK** to select **Connect** to connect Ad-hoc network.
- You can see the Network ID and Security Key on your TV screen.
- Enter this Network ID and Security Key to your device.
- When needed, you can change the setting information using the Red button.

NOTE

When searching for wireless networks on your PC using ad-hoc, the TV is named LGTV10.

- LGTV10 that appears in the list. (Select the same name as the network ID that appears on your TV screen.)

5 Press the Navigation buttons to type in an IP address and press **OK**.

Option	Description
PC Setting	• Internet Protocol(TCP/IP) of PC needs to be set manually. IP address, Subnet Mask, and default Gateway can be set with your own discretion. » e.g.) IP address: 192.168.0.1 / Subnet Mask: 255.255.255.0 / default Gateway: 192.168.0.10
TV Setting	• Verify IP address and gateway of PC. Input Gateway address of PC to IP Address, and IP Address of PC to Gateway, and select **OK**. » e.g.) IP address: 192.168.0.10 / Subnet Mask: 255.255.255.0 / default Gateway: 192.168.0.1

6 Press the Navigation buttons to select **Close** after Network setting is completed.

7 Press the **OK**.

Tips for Network setting

- Use a standard LAN cable with this TV. Cat5 or better with a RJ45 connector.
- Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network router or cable modem. Then power on and/or connect the power cable again.
- Depending on the internet service provider (ISP), the number of devices that can receive internet service may be limited by the applicable terms of service. For details, contact your ISP.
- LG is not responsible for any malfunction of the TV and/or the internet connection feature due to communication errors/malfunctions associated with your broadband internet connection, or other connected equipment.
- LG is not responsible for problems within your internet connection.
- Some content available through the network connection may not be compatible with the TV. If you have questions about such content, please contact the producer of the content.
- You may experience undesired results if the network connection speed does not meet the requirements of the content being accessed.
- Some internet connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your broadband Internet connection.
- Any fees charged by an ISP including, without limitation, connection charges are your responsibility.
- A 10 Base-T or 100 Base-TX LAN port is required when using a wired connection to this TV. If your internet service does not allow for such a connection, you will not be able to connect the TV.
- A DSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this TV or you may be limited to the number of devices you can connect at the same time. (If your ISP limits sub-scription to one device, this TV may not be allowed to connect when a PC is already connected.)
- The use of a “Router” may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your ISP directly.
- The wireless network operates at 2.4 GHz radio frequencies that are also used by other household devices such as cordless telephone, Bluetooth® devices, microwave oven, and can be affected by interference from them. It can be interrupted by the device using 5 Ghz radio frequencies. It is same device with LG wireless media box, cordless telephone, other Wi-Fi device.
- It may decrease the service speed using Wireless network by surrounding wireless condition.
- Turn off all unused network equipment in your local home network. Some devices may generate network traffic.
- In some instances, placing the access point or wireless router higher up away from the floor may improve the reception.
- The reception quality over wireless depends on many factors such as type of the access point, distance between the TV and access point, and the location of the TV.
- To connect wireless AP, an AP that supports the wireless connection is necessary, and the wireless connection function of the AP needs to be activated. Please enquire to the AP supplier for the possibility of AP wireless connections.
- Please verify the security settings of AP SSID for wireless AP connection, and enquire to the AP supplier for the AP SSID security settings.
- The TV can become slower or malfunction with wrong settings of network equipments (wired/wireless router, hub, etc). Please install correctly by referring to the manual of the equipment, and set the network.
- When AP is set to include 802.11 n(Except for Russia), and if Encryption is designated as WEP(64/128bit) or WPA(TKIP/AES), the connection may not be possible. There may be different connection methods according to the AP manufacturers.

Network Status

1 Press **Home** to access the Home menu.

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

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

4 Press the Navigation buttons to select **Network Status**.

5 Press **OK** to check the network status.

Option	Description
Setting	Return to the network setting menu or wireless network setting type menu.
Test	Test the current network status after setting the network.
Close	Return to the previous menu.

Premium Account Function

LG's Premium technology allows you to access a variety of online services or content directly on your TV. Your TV offers instant streaming of movies, weather, videos, and photo album services with a Premium account and an Internet connection. Enjoy entertainment including not only entertainment content, but also up-to-the minute news, weather updates, photo management, and more by simply using the TV's remote control without a separate PC.

1 Press **Premium** to access the Premium option.

2 Press the Navigation buttons to scroll to the content you want and press **OK**.



Option	Description
❶	Moves to the weather setting screen.
❷	Sign into the premium service.
❸	Moves to the previous menu screen.
❹	Returns to TV viewing.
❺	Selects your desired online service. • If a service requires you to log in, you must first sign up for the service on your computer and then log into the service on the TV.
❻	Launcher bar

3 Enjoy the premium features.

Notice

- These services are provided by separate content providers.
- Please visit the content providers web site for specific information on their service.
- Premium menu can differ by country.
- Note that content may be updated automatically depending on the service provider, so the content layout or operation method may change without notice. Please refer to the help menu on the screen.
- All information, data, documents, communications, downloads, files, text, images, photographs, graphics, videos, webcasts, publications, tools, resources, software, code, programmes, applets, widgets, applications, products and other content ("Content") and all services and offerings ("Services") provided or made available by or through any third party (each a "Service Provider") is the sole responsibility of the Service Provider from whom it originated.
- The availability of and access to Content and Services furnished by the Service Provider through the LGE Device are subject to change at any time, without prior notice, including, but not limited to the suspension, removal or cessation of all or any part of the Content or Services.
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- Please note that LGE is not responsible for any Content or Services provided by the Service Provider or any changes to, removal of, or cessation of such Content or Services and does not warrant or guarantee the availability of or access to such Content or Services.
- Some content may be harmful to minors depending on the service provider. Parental guidance is necessary.
- The service may be interrupted if the Internet connection is unstable. Please check the connection status if you experience this problem.

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- The videos list searched from the TV may different with the list searched from a web browser on PC.
- The playback of videos may pause, stop, or buffer depending on your broadband speed.
- For service that requires log in, join the applicable service on the website using a PC and log in through the TV to enjoy various additional functions.
- Only Plasma TV: If there is no user action 2 minutes following freezing image or video on screen, the screensaver will activate itself preventing a fixed image remaining on screen.

Legal Notice

IMPORTANT NOTICE RELATING TO NETWORK SERVICE

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LG Apps Function

Additional applications can be downloaded from the LG App Store. These functions may be not available for a certain period of time depending on country or set. In such cases, the buttons may be disabled.
They are enabled when the services are available. New features may be added to this smart TV in the future.



Option		Description
❶	**Sign In**, **Sign Out**	Sign in or sign out to the premium service.
❷	**Exit**	Returns to TV viewing.
❸	**LG Apps**	Moves to LG Apps.
❹		Moves to the LG Apps you want directly.
❺	**Search**	These functions may be not available for a certain period of time depending on country or set. In such cases, the buttons may be disabled. They are enabled when the services are available.
❻	**Web Browser**	
❼	**Media Link**	
❽	**Quick Apps**	Stores the most frequently used apps among all downloads. To change the list of Quick Apps, see the "Using My Apps".
❾	**My Apps**	Moves to My Apps. You can browse all apps installed, change the list of Quick Apps, and select and play the app you want.

Registration LG Apps

1 Press **Home** to access the Home menu.

2 Press Red button to register.
- You can only register as a free member from your TV.

3 Create your ID and password.
Press the Navigation buttons to select alphabet and number and select **OK**.

4 The registration is completed.

NOTE

- If you wish to become a paid member or change your information, please use your PC and visit *http://www.lgappstv.com*.

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Sign in with your LG Apps account

To enjoy your LG Apps with your account, you need sign in with your LG Apps account.

1 Press **Home** to access the Home menu.

2 Press Red button to sign in.
It displays the keyboard menu for entering ID and password.
- If you are not a member, press Red button again. You can only register as a free member from your TV.

3 Press the Navigation buttons to scroll to the alphabet or number and press **OK**.
- If you check “Auto Sign In”, you are automatically logged in whenever you turn on TV.

4 Enjoy LG Apps.
You can enjoy Premium service, LG Apps, My Apps and much more.

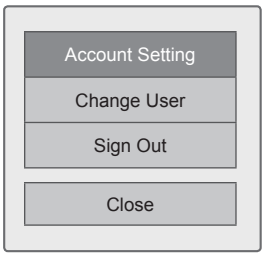
NOTE

- You can download a paid app on up to five TVs.

ID Management

1 After sign in, press Red button again.
A pop-up window will appears.

2 Press the Navigation buttons to scroll to the desired menu option and press **OK**.



3 Manage the ID by using following menu.

Option	Description
Account Setting	Check basic information, apps you purchased and apps installed on your TV.
Change User	Changes your account.
Sign Out	Sign out the premium service.

Using LG Apps

1 Press **Home** to access the Home menu.

2 Sign in on your TV.

3 Press the Navigation buttons to scroll to the LG Apps and press **OK**.

4 Edit the Apps by using following menu.



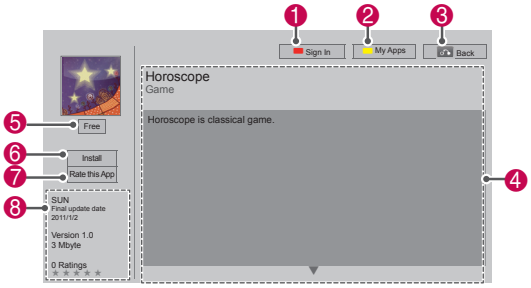
Option		Description
❶	**Sign In**, **Sign Out**	Sign in or out to use the LG Apps.
❷	**Search**	Search the LG Apps.
❸	**My Apps**	Move to My Apps.
❹	**Back**	Move to the previous screen.
❺	**Exit**	Exit LG Apps.
❻	**Apps Sorting**	• HOT: Most downloaded apps in the past 7 days • NEW: Most recently released apps • TOP PAID: Most downloaded paid apps • TOP FREE: Most downloaded free apps • ALL: Alphabetical order • Moves to the previous or next page using **P** ∧ ∨ button.
❼	**Apps Category**	Shows the LG Apps category (All, Game, Entertainment, Life, Education, News/info).
❽	**Live TV**	Watches the current programme.

Purchasing and installing Apps.

Log in first to purchase apps.

1 Press the Navigation buttons to select Apps you want and press **OK**.
You can see the information of the App.

2 Press **Purchase** to buy a App.



Option		Description
❶	**Sign In**, **Sign Out**	Sign in or out to use the LG Apps.
❷	**My Apps**	Move to My Apps.
❸	**Back**	Move to the previous screen.
❹	**App description**	Shows the description of the current Apps.
❺	**Fee**	Shows the fee of the current app.
❻	**Install**	Install or purchase the App. You can purchase an app on either your PC or TV, but it can only be installed and played on the TV. • If you want to purchase a paid app, you need to sign up as a paid member on *www.lgappstv.com*. • If you don't have enough available space on your TV, you can download apps to the USB storage device. • You can play, delete or move the apps stored on the USB storage device onto the My Apps screen.
❼	**Rate this App**	Rate the app you purchased with stars.
❽	**App info.**	Shows the creator/programme version/update date/volume/rating of the current Apps.

NOTE

- To store apps in the USB storage device, make sure that it is connected to the **USB Apps USB IN** (Only 32/37/42/47LV37**, 32/37/42/47LV47**, 32/42/47/55LW47**, 47LK95**) or **USB IN 2/ USB Apps** (Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**) port.
- Up to 1000 apps can be stored as USB apps.
- The USB storage device containing apps cannot be used for storing other types of data.

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Using My Apps

1 Enter the LG Apps after sign in.

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



Option	Description
❶	Shows the amount of used and available memories.
❷	Current page number/total number of pages of My Apps.
❸	Shows the downloaded apps. Moves to the previous or next page using **P** ∧ ∨ button.
❹	Moves the LG Apps.
❺	Quick Apps.
❻	Sign In the LG Apps. After sign in, manage the ID option (Account Setting, Change User, Sign Out).
❼	Edit the My Apps.
❽	Exit the My Apps.
❾	Move to the Home menu.
❿	Delete the Apps.

Web Browser Function

The Web Browser allows you to view Web pages on your TV.

Tips for using Web Browser

- The web browser on this device supports Flash 8 and earlier.
- The web browser on this device does not support platform-dependent technologies such as ActiveX.
- The web browser on this device only supports preinstalled plug-ins.
- The web browser on this device may not support media formats other than the following : JPEG / PNG / GIF / WMV (ASF) / WMA / MP3 / MP4
- Some Web pages may exceed the memory allotment of the Web Browser. The Web Browser will close when this happens.
- The web browser on this device uses a single built-in font. Some text may not be displayed as intended.
- The web browser on this device does not support downloading of files or fonts.
- The web browser on this device is a TV browser. It may work differently to PC browsers.

Using Web Browser

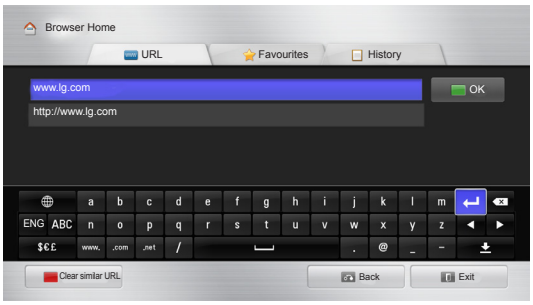
1 Connect to the network.

2 Press **Home** to access the Home menu.

3 Press the Navigation buttons to scroll to the **Web Browser** and press **OK**.

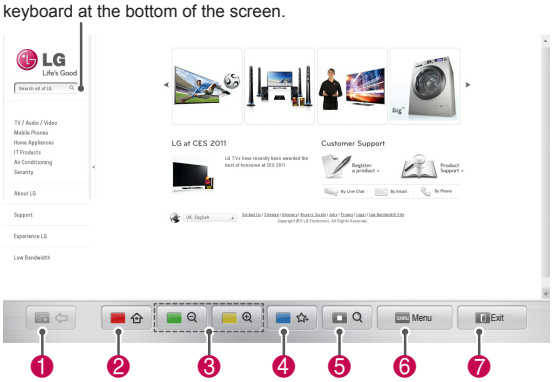
4 Press the Navigation buttons to scroll to the **URL** and press **OK**.

5 Press the Navigation buttons to scroll to the desired the URL address and press **OK**.



6 You can browse websites on your TV.

Select the browser input window to display the keyboard at the bottom of the screen.



Button	Description
❶	Move to the previous page.
❷	Move to the Favourites screen.
❸	Zoom the screen in or out.
❹	Add the current web page to Favourites.
❺	Move to the search screen.
❻	Move to the previous/next page in the list of recently viewed web pages. You can change the URL address to move to other websites. You can delete the list and cookies of recently viewed web pages.
❼	Exit the web browser.

Browsing Favourite Websites

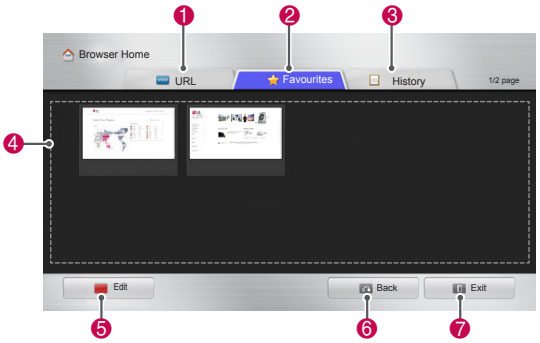
1 Connect to the network.

2 Press **Home** to access the Home menu.

3 Press the Navigation buttons to scroll to the **Web Browser** and press **OK**.

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

By adding frequently visited websites to Favourites, you can browse them easily.



Option	Description
❶	Browse a website by directly entering the URL address.
❷	Select a website in Favourites.
❸	View the list of recently viewed web pages.
❹	Select a site to browse.
❺	Edit Favourites. -**Move**: Change the order in Favourites. -**Rename**: Rename the sites added to Favourites. -**Delete**: Remove the sites from Favourites.
❻	Move to the previous page.
❼	Exit the web browser.

Browsing Websites by Directly Entering Address

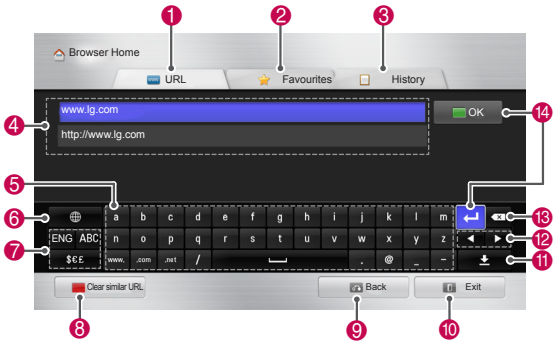
1 Connect to the network.

2 Press **Home** to access the Home menu.

3 Press the Navigation buttons to scroll to the **Web Browser** and press **OK**.

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

You can browse a website by directly entering the URL address.



Option	Description
❶	Browse a website by directly entering the URL address.
❷	Select a website in Favourites.
❸	View the list of recently viewed web pages.
❹	Enter the URL address. If the address entered is similar to any of the sites previously visited, a drop-down list will be displayed.
❺	Use the keyboard to enter the address. Select characters to enter.
❻	Select the keyboard language.
❼	Change the keyboard.
❽	Clear the similar addresses appearing below the address input field.
❾	Move to the previous page.
❿	Exit the web browser.
⓫	Hide the keyboard. Select the address input field to display the keyboard again.
⓬	Move the cursor left or right.
⓭	Delete the text before the cursor, one character at a time.
⓮	Press this after entering the address to go to the website.

Viewing Visited Website List

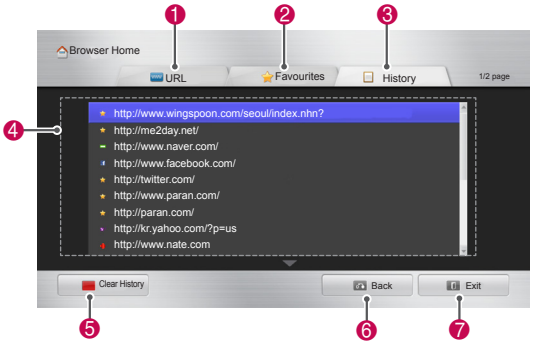
1 Connect to the network.

2 Press **Home** to access the Home menu.

3 Press the Navigation buttons to scroll to the **Web Browser** and press **OK**.

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

You can view the addresses of the websites you visited previously. Select an item to move to the page.

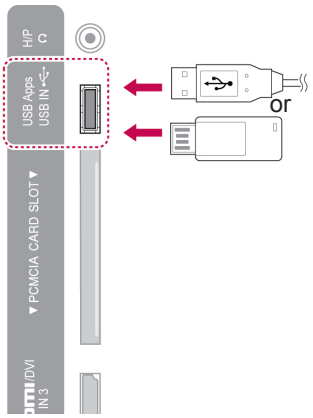


Option	Description
❶	Browse a website by directly entering the URL address.
❷	Select a website in Favourites.
❸	View the list of recently viewed web pages.
❹	Display a list of recently visited pages. Select an item to move to the page.
❺	Clear the visited website list.
❻	Move to the previous page.
❼	Exit the web browser.

Smart Share Function

Connecting USB storage devices

Connect USB storage devices such as a USB flash drive or external hard drive to the TV and use multimedia features (See "Browsing files"). Connect a USB flash drive or USB memory card reader to the TV as shown in the following illustration.



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

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

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

3 Disconnect the USB storage device only when the message says that it is safe to remove.

CAUTION

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

Tips for using USB storage devices

- The TV recognizes only a USB storage device.
- If you connect a USB storage device to the TV through a USB hub, your TV may not recognize the USB storage device.
- The TV may not recognize a USB storage device that requires a special driver.
- The recognition speed of a USB storage device may differ depending on the device.
- Only use a USB storage device which has normal music or image files.
- Use only USB storage devices that are formatted as a FAT 32 or NTFS file system.
- You may need to connect a USB storage device to an external power supply with a power adapter.
- If the TV does not recognize a connected USB storage device, replace the cable and try again. Do not use an excessively long cable.
- The TV does not support some USB storage devices properly.
- You can use a multi-partition (up to 4) USB storage device.
- You can use up to 4 USB storage devices at a time by using a USB multi-card reader.
- The file alignment method of a USB storage device is similar to the one of Window XP.
- You cannot create or delete a folder saved in a USB storage device directly on the TV.
- The number of characters for a file name is up to 100 English characters.
- Up to 1000 including folders and files can be recognized.
- If there are too many folders and files in one folder, it may not operate properly.
- The recommended capacity for a USB external hard disk is 1 TB or less and for a USB storage device is 32 GB or less.
- If a USB external hard disk with the Energy Saving feature does not work, turn the USB external hard disk off and on again to make it work properly. For more information, refer to the user manual of the USB external hard disk.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- The electrostatic can cause USB device's malfunction. In this case, USB Device has to be plugged again.

Connecting DLNA DMP (Digital Living Network Alliance, Digital Media Player)

This TV can display and play many types of movie, photo and music files from your DLNA server and has been certified by DLNA for movies, photos and music.
The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.
The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.5. When a PC running DLNA server software or other DLNA compatible device is connected to this TV, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.
Please refer to "Smart Share Function" for additional information on supported file types and other instructions.

NOTE

- The supplied Nero MediaHome 4 Essentials CD-ROM is a customized software edition only for sharing files and folders to this TV.
- The supplied Nero MediaHome 4 Essentials software does not support following functions: Transcoding, Remote UI, TV control, Internet services and Apple iTunes
- This manual explains operations with the English version of Nero MediaHome 4 Essentials as examples. Follow the explanation referring to the actual operations of your language version.
- If there are too many folders and files in one folder, it may not operate properly.
- For the DLNA option, use the Nero MediaHome programme that is provided with the TV. However, we cannot guarantee that third party programme will work perfectly.
- You can select a programme while viewing the small preview programme list on your TV screen.
- Check your network settings when the DLNA option does not work properly.
- If there is an abnormal operation or an error occurs in Nero Media Home, the DLNA option may not work properly. In this case, exit Nero Media Home and restart the programme. You can download the latest version of Nero Media Home by clicking the question mark at the bottom-left of the programme.
- When the network is unstable, the device may be slower or may need to load during playback.
- When playing a video in DLNA mode, the Multi Audio and Closed Caption features are not supported.
- When selecting Full Screen in DLNA mode, the ratio of the outputted screen may differ from the original.
- When more than one TV is connected to a single server in DLNA mode, a file may not play properly, depending on the server performance.
- If the play time information is not provided by the server, it is displayed as "- -."

Installing Nero MediaHome 4 Essentials

Nero MediaHome 4 Essentials is an easy to use DLNA server software for Windows.

Computer requirements for Nero MediaHome 4 Essentials

- Windows® XP (Service Pack 2 or higher), Windows Vista® (no Service Pack required), Windows® XP Media Center Edition 2005 (Service Pack 2 or higher), Windows Server® 2003 (Service Pack 1 or higher)
- Windows® 7 Home Premium, Professional, Enterprise or Ultimate(32 and 64-bit)
- Windows Vista® 64-bit edition (application runs in 32-bit mode)
- Windows® 7 64-bit edition (application runs in 32-bit mode)
- Hard drive space: 200 MB hard drive space for a typical installation of Nero MediaHome stand-alone
- 1.2 GHz Intel® Pentium® III or AMD Sempron™ 2200+ processors
- Memory: 256 MB RAM
- Graphics card with at least 32 MB video memory, minimum resolution of 800 x 600 pixels, and 16-bit colour settings
- Windows® Internet Explorer® 6.0 or higher
- DirectX® 9.0c revision 30 (August 2006) or higher
- Network environment: 100 Mb Ethernet, WLAN (IEEE 802.11g), or faster

1 Start up your computer.

2 Close all Microsoft Windows programmes and exit any anti-virus software that may be running.

3 Insert the Nero MediaHome 4 Essentials CD-ROM into your computer's CD-ROM drive.

4 Click **Nero MediaHome 4 Essentials**. The installation wizard will appear.

5 Click the **Next** button to display the serial number input screen. Click **Next** to go to the next step.

6 If you accept all conditions, click **I accept the License Conditions** check box and click **Next**. Installation is not possible without this agreement.

7 Click **Typical** and click **Next**. The installation process is started.

8 If you want to take part in the anonymous collection of data, select the check box and click the **Next** button.

9 Click the **Exit** button to complete the installation.

Sharing files and folders

After installing Nero MediaHome, you must add folders you wish to share.

1 Double-click the Nero MediaHome 4 Essentials icon on the desktop.

2 Click Network icon on the left and define your network name in the Network name field. The Network name you enter will be recognized by your TV.

3 Click Shares icon on the left.

4 Click Local Folders tab on the Shared screen.

5 Click Add icon to open the Browse Folder window.

6 Select the folder containing the files you want to share. The selected folder is added to the list of shared folders.

7 Click Start Server icon to start the server.

NOTE

- If the shared folders or files are not displayed on the TV, click the folder on the Local Folders tab and click **Rescan Folder** at the **More** button.
- Visit *http://www.nero.com* for more information and software tools.

Playing Shared Media

You can display and play movie, photo and music content stored on your computer or other DLNA media servers.

1 Press **Home** to access the Home menu.

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

3 Press the Navigation buttons to scroll to the device you want and press **OK**.

4 Press the Navigation buttons to select **DLNA**. Depending on the media server, this TV may need to get the permission from the server.

Tips for using DLNA DMP

- The DLNA function is not available in some routers which do not support multicasting. For more information, refer to your router manual or contact the manufacturer.
- To play the file on the media server, the TV and the media server must be connected to the same access point.
- File requirements and playback functions on the Smart Share may differ depending on the media server used.
- There may be some restrictions by file features and the media server that restrict playback.
- Movie thumbnail is only supported when DLNA server supports a Movie thumbnail.
- If there is an unplayable music file in the Smart Share menu, the TV will skip the file and play next file.
- Files in a folder can be played only when they are of the same type.
- The file information indicated on the screen may not always correct for music and movie files in Smart Share menu.
- This TV only supports movie subtitle files supplied by Nero MediaHome 4.
- The subtitle file name and movie file name have to be the same and located in the same folder.
- If subtitle files have been added after a directory has been indexed already, the user has to remove and re-add the folder to the list of shares.
- The DRM/*.tp/*.trp file in DLNA server is not played while Movie List is in operation.
- MPO files are not played when Photo List is in operation.
- The playback and operating quality of the Smart Share function may be affected by your home network condition.
- The files from removable media such as USB drive, DVD-drive etc. on your media server may not share properly.
- When playing the Media through DLNA connection, it does not support files protected by DRM.
- Up to 1000 including folders and files can be recognized.
- If there are too many folders and files in one folder, it may not operate properly.

Connecting DLNA DMR (Digital Living Network Alliance, Digital Media Render)

This supports remote playing of media files. Media from a compatible device (Windows 7, Mobile Phone with PlayTo, or other compatible DLNA-DMC device) can be "pushed" to the TV.

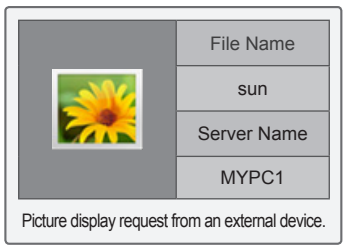
The DMR function only works properly when the TV and PC are on the same local network.

1 To play a file, select the file by using the "Remote Play" feature in Windows 7.
To do this, right-click on the file you want to play.

2 You can play a file only on a single TV set or device even though multiple devices are connected. The playback speed depends on the network status.

NOTE

- Subtitle is supported only on some DMC devices.
- The DMR function may not work properly in a wireless network.
- The seek function of the DMC only works on video files.
- The DMR is not available when another function is operating (recording, playback or Smart Share work etc.).
- Refer to the owner's manual of the mobile phone or other device to find out how to use it to play a file.
- You can change the name of a connected TV by double-clicking the item you want to change in Control Panel > Network and Internet > View network computers and devices. (Only Windows 7)
- You cannot change the name of a TV while DMR media is playing. Change it when playback is stopped.



Picture display request from an external device.

Browsing files

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

1 Connect a USB storage device.

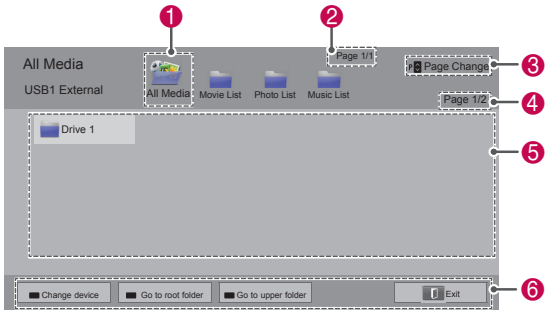
2 Press **Home** to access the Home menu.

3 Press the Navigation buttons to scroll to **Smart Share** and press **OK**.

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

5 Press Navigation buttons to scroll to **All Media**, **Movie List**, **Photo List**, or **Music List** and press **OK**.
- **All Media**: Shows all files in the file list.
- **Movie List**, **Photo List**, or **Music List**: Shows only one type of file in the file list.

6 Press Navigation buttons to select a folder or file.



No.	Description
❶	Shows all media folders.
❷	Current page number/total number of pages.
❸	Moves to the previous or next page.
❹	Current page number/total number of pages.
❺	Files info or thumbnail.
❻	Available buttons on the remote control.

Thumbnail information

Type	Abnormal files	Non-supported files
Video		
Photo		
Music		

Tips for using USB storage devices

Type	Supported file format			
Video	• MPG, MPEG, DAT, TS, TRP, TP, VOB , MP4, MOV, MKV, DivX, AVI, ASF, WMV, M4V • Max bitrate of playable movie file: 20 Mbps (Mega bit per second) • Bit rate of audio format: within 32 kbps to 320 kbps (MP3) • Supported external subtitle format: *.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX) • Supported Internal subtitle format: only XSUB (It is the subtitle format made in DivX files), Text UTF-8, SRT, ASS, SSA (It is the subtitle format used in DivX-Plus HD files)			
Photo	• Do not use the progressive option when saving JPG files on your PC. • It may take some time to open high-resolution images in full screen.			
		File Extensions	**Item**	**Profile**
	2D	jpeg jpg jpe	Supported file format	• SOF0: baseline • SOF1: Extend Sequential • SOF2: Progressive
			Photo size	• Min: 64 x 64 • Max - Normal Type: 15360 (W) x 8640 (H) • Progressive Type: 1920 (W) x 1440 (H)
	3D (Only 3D models)	mpo	Supported file format	• mpo
			Photo size	• 4:3 size: 3,648 x 2,736 2,592 x 1,944 2,048 x 1,536 • 3:2 size: 3,648 x 2,432
Music	• MP3 • Bit rate range 32 Kbps to 320 Kbps • Sampling rate (Sampling Frequency) MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz MPEG2 layer 3: 16 kHz, 22.05 kHz, 24 kHz * A copy-protected file will not play.			

ENGLISH

Viewing Videos

Play video files on the TV. Your TV can display video files from a USB storage device.

1 Press **Home** to access the Home menu.

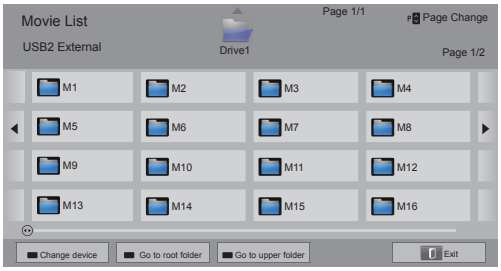
2 Press the Navigation buttons to scroll to **Smart Share** and press **OK**.

3 Press the Navigation buttons to scroll to the device you want and press **OK**.

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

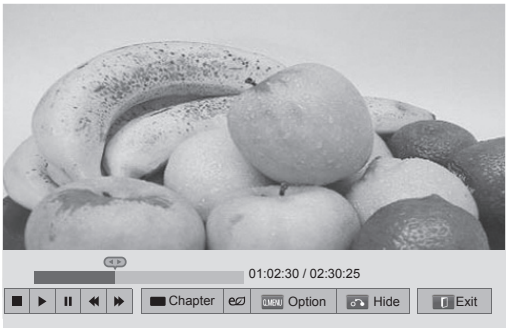
5 Press Navigation buttons to select a folder or file you want and press **OK**.

6 Play a movie by using the following menus/buttons.



Button	Description
Navigation button	Scrolls through the files.
OK	Plays the highlighted file.
P ∧ ∨	Moves to the previous or next page.
Red button	Change device: Changes to a different input.
Green button	Go to root folder.
Yellow button	Go to upper folder.

7 Control playback by using the following buttons.



Button	Description
■	Stops the playback.
▶	Plays a video.
❚❚	Pauses or resumes the playback.
◀◀	Scans backward in a file.
▶▶	Scans forward in a file.
❚❚ and ▶▶	Plays videos in slow motion.
Red button and **< >**	Selects the frame directly. The entire file is divided into 10 frames. Frames may not be displayed depending on the file.
ENERGY SAVING	Increases or decreases the brightness of your screen.
3D (Only 3D models)	Views the 3D imaging.
Q.MENU	Shows the Option menu (See p.70).
AV MODE	Select the desired source.
BACK	Hides the menu on screen. To see the menu again, press **OK** button to display.
EXIT	Moves to the previous menu screen.

Tips for playing video files

- The TV does not support the files encoded in Motion JPEG. (See p.142)
- Some user-created subtitles may not work properly.
- Subtitles may not display some special characters or HTML tags.
- Changing font and colour in subtitles is not supported.
- Subtitles in non-supported languages are unavailable.
- Video files with subtitle files of 1 MB or larger may not be played properly.
- The screen may suffer from temporary interruptions such as image stoppage or faster playback when you change the audio language.
- If you play a damaged video file, the video file may not be played correctly or some player functions may not be unavailable.
- The TV may not properly play the video files produced with certain encoders.
- If the recorded file does not have video or audio, either video or audio is not outputted.
- If the TV plays the recorded file without video or audio, either video or audio is not outputted.
- The TV may not smoothly play the video files with a resolution higher than the supported resolution for each frame.
- The TV may not properly play the video files not included on the specified type and format.
- The TV may not play the files encoded with GMC (Global Motion Compensation) or quarter-pel motion estimation.
- The TV supports the only 10,000 sync blocks within the subtitle file.
- The TV supports the H.264/AVC codec up to the profile level 4.1.
- The TV does not support DTS audio codec.
- The TV cannot play a video file whose size is larger than 30 GB.
- If you play a video file through the USB connection that does not support the high speed, the video player may not work properly.
- The video file and its subtitle should be in the same folder and the name of the video file and subtitle should be identical.
- The TV may not play the video files in the supported file format depending on the encoded condition.
- Trick Mode does not support other functions than ⏩ if video files do not have index information.
- Video file names that contain special characters may not be playable.
- For 3D WMV files encoded in dualstream, 3D mode is not supported. (Only 3D models)

Q.MENU options for movie list

1 Press **Q.MENU**.
A pop-up window will appears.

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

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

Set Video Play.

Option	Description
Picture Size	Selects your desired picture format for videos. • **Full Mode**: Files are played in full screen mode according to the aspect ratio of video. • **Original Mode**: Files are played in their native size.
Audio Language	Changes the Language Group of the audio for video files. Files with a single audio track cannot be selected.
Subtitle Language	The subtitles can be turned on or off.
Language	Activated for SMI subtitles and can select the language within the subtitle.
Code Page	Subtitle font selection. When set to default, contents are displayed in the language set in "Option - Language - Menu Language".

Option	Description
Subtitle Language Group	• Latin1 : English, Spanish, French, German, Italian, Swedish, Finnish, Dutch, Portuguese, Danish, Romanian, Norwegian, Albanian, Gaelic, Welsh, Irish, Catalan,Valencian • Latin2 : Bosnian, Polish, Croatian, Czech, Slovak, Slovenian, Serbian, Hungarian • Latin4 : Estonian, Latvian, Lithuanian • Cyrillic : Bulgarian, Macedonian, Russian, Ukrainian, Kazakh • Greek : Greek • Turkish : Turkish
Sync	If the video is not synchronized with the captions, it can be adjusted by 0.5 second.
Position	Move the location of the subtitles.
Size	Changes the subtitle font size.
Repeat	Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. When turned off, if the next file name is similar to the previous file, it can be played sequentially.

NOTE

- Option values changed in Movie List does not affect Photo List and Music List.
- Option value changed in Photo List and Music List are changed likewise in Photo List and Music List excluding Movie List.
- When replaying a video file after stopping, select “Yes” to restart where it previously stopped.
- 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”.

Set Video.

Allows you to change Video presets. (Refer to “PICTURE Settings”)

Set Audio.

Allows you to change Audio presets. (Refer to “AUDIO Settings”)

Set DivX PLUS HD

These options are enabled only when the movie file being played contains the title, edition and authored chapter information.

Option	Description
Title	For files with more than one title, select the title you want to play.
Edition	For files with more than one edition, select the edition you want to play. • An edition refers to the playback order set based on the chapters.
Authored Chapter	Select and play the chapter you want.

DivX® VOD Guide

DivX® VOD Registration

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

1 Press **Home** to access the Home menu.

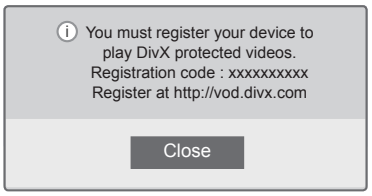
2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

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

4 Press the Navigation buttons to scroll to **Smart Share Setting** and press **OK**.

5 Press the Navigation buttons to scroll to **DivX VOD Registration** and press **OK**.

6 View the registration code of your TV.



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

NOTE

- While you are checking the registration code, some buttons may not work.
- If you use the DivX registration code of another device, you cannot play the rented or purchased DivX file. Make sure to use the DivX registration code assigned to your TV.
- The video or audio files that are not converted by the standard DivX codec may be corrupted or not be played.
- The DivX VOD code allows you to activate up to 6 devices under one account.

DivX® VOD Deregistration

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

1 Press **Home** to access the Home menu.

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

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

4 Press the Navigation buttons to scroll to **Smart Share Setting** and press **OK**.

5 Press the Navigation buttons to scroll to **DivX Deregistration** and press **OK**.

6 Select **Yes** to confirm.



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

NOTE

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

ENGLISH

Viewing Photos

You can view image files saved on a USB storage device. The displays on the screen may based on the from the model.

1 Press **Home** to access the Home menu.

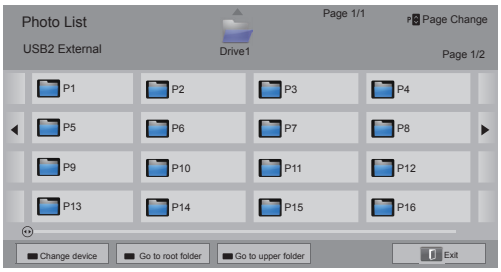
2 Press the Navigation buttons to scroll to **Smart Share** and press **OK**.

3 Press the Navigation buttons to scroll to the device you want and press **OK**.

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

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

6 View photos by using the following menus/buttons.



Button	Description
Navigation button	Scrolls the file.
OK	Views the highlighted file.
P ∧ ∨	Moves to the previous or next page.
Red button	Change device: Changes to a different input.
Green button	Go to root folder.
Yellow button	Go to upper folder.

7 The following options are available while viewing photos.

- Image shown may differ from your TV.



Option	Description
Slideshow	Starts or stops a slideshow. All photos saved in the current folder display during a slideshow. To set a slideshow speed, select Option.
BGM (Background Music)	Turns the background music on or off. To set the background music folder, select Option.
(Colour Filter) (Only Plasma TV)	Displays the current photo in Original, Monotone, Sepia, Oil Painting and Vignetting.
↻ (Rotate)	Rotates photos clockwise (90°, 180°, 270°, 360°). **NOTE** • The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
	Views the photo in full mode or original mode.
(ENERGY SAVING)	Increases or decreases the brightness of your screen.
3D (Only 3D models)	Views the 3D images.
Option	Shows the Option menu. (See p.73)
Hide	Hides the option window. To display the options, press **OK**.
Exit	Moves to the previous menu screen.

Q.MENU options for photo list

1 Press **Q. MENU**.
A pop-up window will appears.

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

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

Set Photo View.

Option	Description
Slide Speed	Selects a slideshow speed (Fast, Medium, Slow).
BGM	Selects a music folder for the background music. Select Repeat or Random option. **NOTE** • You cannot change the music folder while the background music is playing.

NOTE

- Option values changed in Photo List do not affect Movie List and Music List.
- Option values changed in Photo List or Music List are changed likewise in Photo List and Music List, but not Movie List.

Set Video.

Allows you to change Video settings. (Refer to “PICTURE Settings”)

Set Audio.

Allows you to change Audio settings. (Refer to “AUDIO Settings”)

ENGLISH

Listening to music

1 Press **Home** to access the Home menu.

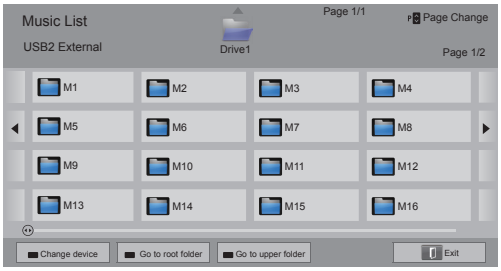
2 Press the Navigation buttons to scroll to **Smart Share** and press **OK**.

3 Press the Navigation buttons to scroll to the device you want and press **OK**.

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

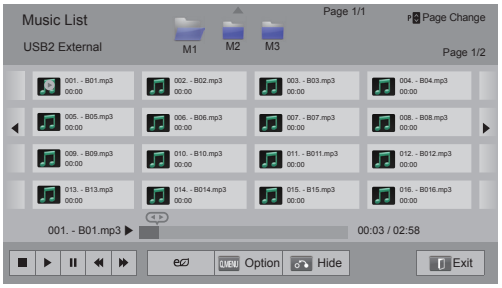
5 Press the Navigation buttons to select a folder or file you want and press **OK**.

6 Play music by using the following menus/buttons.



Button	Description
Navigation button	Scrolls through the files.
OK	Plays the highlighted file.
P ∧ ∨	Moves to the previous or next page.
Red button	Change device: Changes to a different input.
Green button	Go to root folder.
Yellow button	Go to upper folder.
Blue button	Open music player. It is enabled during playing music.

7 Control playback by using the following buttons.



Button	Description
■	Stops playback.
▶	Plays a music file.
❚❚	Pauses or resumes playback.
◀◀	Skips to the previous file.
▶▶	Skips to the next file.
< >	Indicates a cursor.
(ENERGY SAVING)	Increases or decreases the brightness of your screen.
Q.MENU	Shows the Option menu. (See p.75)
BACK	Hides the option window. To display the options, press **OK**.
EXIT	Moves to the previous menu screen.

Tips for playing music files

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

ENGLISH

Q.MENU options for music list

1 Press **Q. MENU**.
A pop-up window will appears.

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

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

NOTE

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

Set Audio Play.

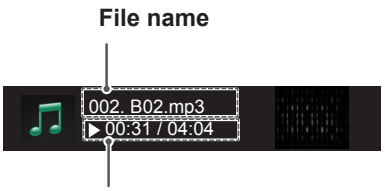
Select Repeat or Random option.

Set Audio.

Allows you to change Audio settings. (Refer to “AUDIO Settings”)

NOTE

- The TV will not play copy protected files.
- If the TV is not in use for some time during playback, the information box as a screen-saver will appear to prevent image burn. To return to the Music list screen, press **OK**.



ENGLISH

Media Link Function

The Media Link programme allows you to connect to a Plex Media Server. The Plex Media Server is free download from *www.plexapp.com*. It will allow to play media files and download Plex apps. The Plex apps download to your computer and do not use any space on the TV.

NOTE

- We recommend that you install version 0.9.1.14 or later of PLEX Media Server on your Mac or PC. (Download the installation file at *http://www.plexapp.com/medialink*)
- GUI is displayed in English and the data transmitted will not be displayed when using the following languages: Thai, Arabic, Persian, Hebrew, Kurdish.
- When using the video plug-in, initial buffering may take a while if the TV does not support a file to be played and conversion needs to be performed on the computer. The conversion performance may vary depending on the computer's performance and the network speed.
- When playing the files stored on the computer (movies, TV shows, music), the formats supported are the same as those for the DLNA function. The skip to content function is not supported when playing music. (Same for DLNA)
- You may experience problems when playing HD movies over Wi-Fi due to the network slowing down.
- When using a router, the TV may not detect the computer due to the router settings. (For example, when using the multicast forward function in some routers, TVs cannot detect computers via Wi-Fi.)
- Some plug-ins may not work, depending on the media format.
- Plug-ins are subject to change and may stop working without prior notice, at the providers' discretion.

Media Link Connection

1 Your TV must be connected to your home network. Either using a wired or wireless connection. (See p.46 to 52).

2 You can download PLEX at *http://www.plexapp.com/medialink*.

- For more information on how to install it, please visit the website above.

3 When you run PLEX for the first time, the wizard guides you through the steps to set up the programme.

- For information on how to use the wizard, please visit the website above.

Using Media Link

1 Press **Home** to access the Home menu.

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

3 The Media Link sections of the connected computer are displayed. Select an icon to view the shared media in that category.



Option	Description
❶	This is a list of categories you set on the connected computer.
❷	This is a list of plug-ins for online content.
❸	Change the section sorting. - By server name: Sort the list by server name. - By item name: Sort the list by item name.
❹	Select another device.
❺	Using PLEX Online, you can install, remove or update applications on the computer.
❻	Move to the previous page.
❼	Exit Media Link.

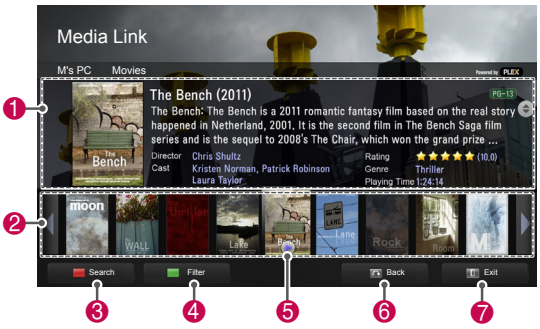
Viewing Movies

Media Link will retrieve information on shared movies as described below.

1 Press **Home** to access the Home menu.

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

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



Option	Description
❶	Show information for the selected movie.
❷	Show images captured from the movie file.
❸	Search movies within the section.
❹	Display the list according to the selected filter.
❺	Select to play the movie in full screen mode. If the movie has already been played, you can continue from the last scene.
❻	Move to the previous page.
❼	Exit Media Link.

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Using Music Section

You can view information for the music files set for the Music section and enjoy them.

1 Press **Home** to access the Home menu.

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

3 Press the Navigation buttons to scroll to the Music section and press **OK**.



Option	Description
❶	Sort the music files in the selected section in the order of artist > album > song title.
❷	Select a folder or a song.
❸	Show the artist, album and information for the selected music.
❹	Search music files within the section.
❺	Display the list according to the selected filter.
❻	Move to the previous page.
❼	Exit Media Link.

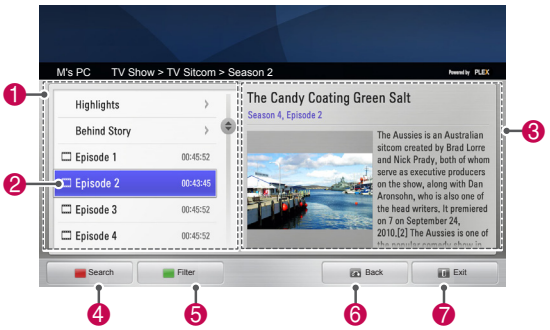
Using TV Programme Section

You can view information for the programmes contained in the TV Show section and enjoy them.

1 Press **Home** to access the Home menu.

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

3 Press the Navigation buttons to scroll to the TV Show section and press **OK**.



Option	Description
❶	Sort the TV programme files in the selected section in the order of programme name > season > episode.
❷	Select a folder or a programme.
❸	Show information for the selected programme.
❹	Search TV programmes within the section.
❺	Display the list according to the selected filter.
❻	Move to the previous page.
❼	Exit Media Link.

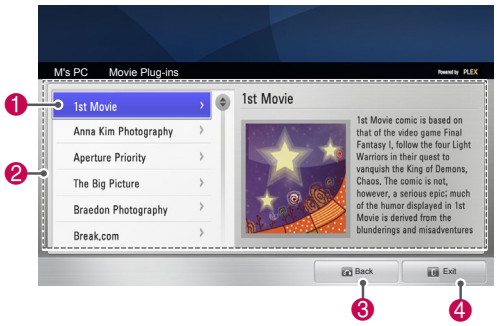
Installing Plug-Ins

Media Link allows you to install plug-ins to enjoy media content on the web.

1 Press **Home** to access the Home menu.

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

3 Press yellow button to select to PLEX online.



Option	Description
❶	Move the cursor to a plug-in to view the plug-in information on the right pane. Plug-ins already installed: You can run, update, reinstall or remove them. Plug-ins not yet installed: You can install them. Once installed, you can run the plug-in by selecting Video, Music or Picture Plug-in from the Media Link main screen.
❷	A list of plug-ins available for installation.
❸	Move to the previous page.
❹	Exit Media Link.

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DVR Function

(This function is available for limited models in select countries. DVR-ready models have **REC** button on the remote control.)

Precautions when using the USB Device

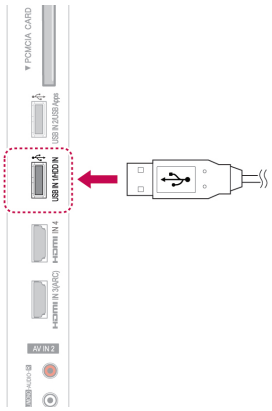
NOTE

- 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.
- In case of several partitions or a card reader, up to four memory cards are concurrently recognizable.
- 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 connect power to a USB storage device which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- Some USB storage devices may not be supported or operate properly.
- The TV will display up to 128 characters of a files name.
- Please backup important files because data on USB device may be damaged. Data management is consumer's responsibility and as a result, the manufacturer does not cover data damage.
- The recommended capacity is 40 GB or over and 1TB or less for a USB HDD.
- Any device with more than the recommended capacity may not work properly.
- Playing a movie via a USB connection that doesn't support high speed may not work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- Please maintain the stability of external HDD by using the HDD benchmarking tool in order to guarantee smooth action of HDD.
- The HDD benchmarking tools is checking the performance of HDD that is read/write rate, access time, stability. It will be able to search at website and use easily it after download the HDD benchmarking tool.
- DVR USB hard disk supports only SSD or HDD disk types. (USB memory is not supported.)
- A SSD (Solid State Drive) has a limited number of write/delete cycles. A HDD (Hard Disk Drive) is recommended for this product.

Timeshift (PAUSE & REPLAY OF LIVE TV)

This function allows the unit to automatically record live TV and make it available for viewing at any time.
With the Timeshift turned on, you may pause and rewind normal TV viewing at any time without missing any of the live broadcast.
Timeshift and Recording functions may not work if the signal strength is weak.
This function is only operated after initializating USB Device.

Connecting USB storage devices



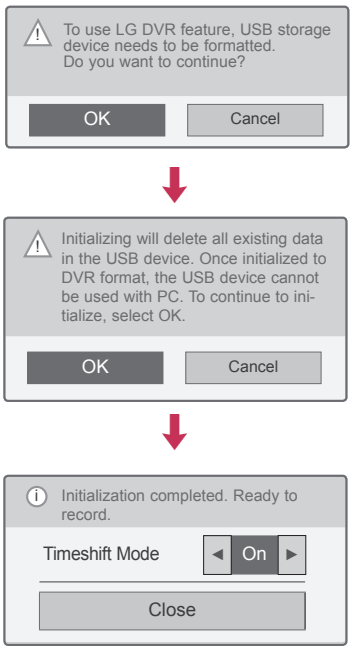
1 Connect the USB device to the **USB IN 1/HDD IN** jacks on the side of TV.

2 To use the USB device (over 40 GB) for DVR, execute USB Device Initialization.

NOTE

- It initializes the HDD connected to the USB as disk mode for DVR.
- It is activated only when the USB HDD available for DVR is connected.
- When USB Device Initialization is executed, all the data stored in the USB device is deleted.
- While performing USB Device Initialization, do not remove the USB device. It may cause error on the TV and the storage device.

USB device Initialization



1 Connect an unformatted USB for DVR and press **REC** to initialize the USB device.

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

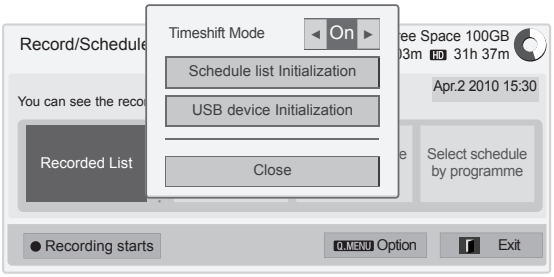
3 Press Navigation buttons to scroll to **On** or **Off** and press **OK**.

NOTE

- When initialization is completed, a popup notice of completion is displayed and the connected USB HDD is available for DVR.
- Depending on the capacity of the USB device, the initialization time may vary.
- The initialized USB device is not recognized by the PC.
- When a USB device of less than 40 GB is connected, the USB Device Initialization is not activated.
- Supported maximum external HDD size for back-up is up to 1TB.

ENGLISH

Timeshift Mode change during using DVR



1 After connecting USB device, press the **OK** button.

2 Press Yellow button to show the DVR option menu and press **Q.MENU**.

3 Press the Navigation buttons to scroll to **Timeshift Mode** and press **OK**.

4 Press Navigation buttons to scroll to **On** or **Off** and press **OK**.

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

Menu	Description
Recorded List	Moves to the **Recorded List**.
Schedule List	Moves to the **Schedule List**.
Select schedule by date	Moves to the **Manual Timer**.
Select schedule by programme	Set up timer recording by going to the Programme Guide.

USB Device Reinitialization during using DVR

1 After connecting USB device, press the **OK** button.

2 Press Yellow button to show the DVR option menu and press **Q.MENU**.

3 Press the Navigation buttons to scroll to **USB device Initialization** and press **OK**.

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

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

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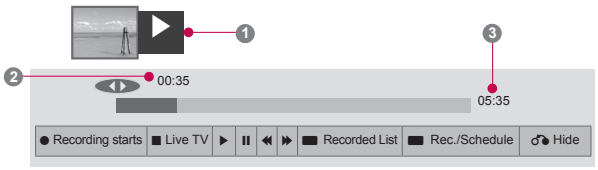
Timeshift Progress



1 After connecting USB device, press the **OK** button.

- As soon as Timeshift starts, a progress bar indicating the current recording status is displayed in the bottom of the screen.
- It Press the **BACK** button to hide the 'Progress Bar' or press the **OK** button to display the 'Progress Bar'.
- This function is preserved even though changing a programme on progressing the Timeshift.

The 'Progress Bar'?

This function indicates what Timeshift reviewing is possible, a current on-screen and live broadcasting position.

1. Preview
2. Current location and progress time in playback
3. Total progress time of the Timeshift

- Playback
- Fast forward
- Rewind
- Pause
- Direct view +
- Direct view -
- By one screen
- Slow playback

NOTE

- In order to save hard-disk space, nothing is saved when there is no signal.
- Timeshift can be used for maximum of 2 hours.
- You can't do the programme change or input conversion on recording.
- When turning power on, it may take up to a maximum of 3 minutes to initialize the HDD.
- Recording or playing the recorded programme may not initiate for a copy-protected programme.
- Instant recording time is set to 3 hours and supported maximum time is up to 5 hours.
- A thumbnail is created every 3 minutes for recordings longer than 18 minutes and every 1 to 3 minutes for recordings shorter than 18 minutes.
- Up to 6 thumbnails are created on one screen.
- DVR is available in DTV channel.
- Radio or satellite programmes or some scramble programmes cannot be recorded.
- You can record and enjoy DTV programmes in 3D.

Playback during the Timeshift

During the Timeshift play, the following options are available.

Use of remote control

You can playback the temporarily saved part in various methods during the Timeshift.

Button	Description
◀◀ ▶▶	During playback, repeatedly, press the **REW** (◀◀) or **FF** (▶▶) button to speed up. - Every time you press the button, the search speed will increase by stage (up to 4 stages).
II ▶▶	During playback, press the Pause(II) button. - Pause screen is displayed. - Every time you press the Pause(II) button from the pause screen, it will move screen by screen (II ▶). - Press the Pause(II) button and then use the FF (▶▶) button for slow motion (I▶).
< >, **OK**	When you move the cursor using the Navigation (**< >**) button during playback, and then press the **OK** button, the screen will directly play at the applicable screen where the cursor is located. (↷, ↶)
LIVE TV	To view the current live broadcast, press the **LIVE TV** button during playback.

Recording

Use this function when you cannot watch the desired programme due to being out.

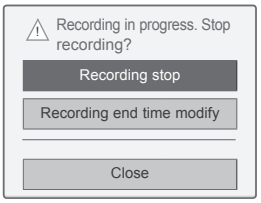
Start/Stop record

You can record the programme you are watching.

Start record

1 Press **REC** to start the recording.

Stop record



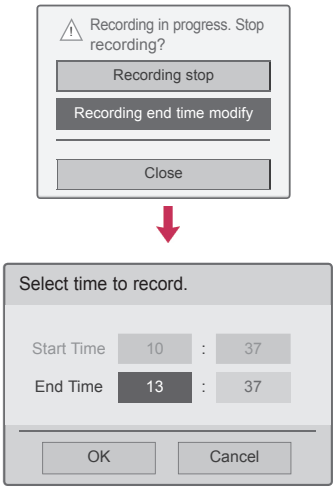
1 Press **REC** to stop the recording.

2 Press Navigation buttons to scroll to **Recording stop** and press **OK**.

NOTE

- You can also stop the recording by pressing **STOP** (■).

Modify recording end time



1 Press **REC** on the recording.

2 Press Navigation buttons to scroll to **Recording end time modify** and press **OK**.

3 Press Navigation buttons to scroll to set the recording end time and press **OK**.

NOTE

- When recording, if the available storage space is not sufficient, the recording will automatically Stop.
- Recordings of less than 10 seconds will not be saved.
- Recording available time is maximum 5 hours.
- To save disk space while recording broadcasts, no data will be saved if there is no signal.
- The recording function will not initiate for a copy-protected programme.
- The displayed time may differ slightly from the actual time.
- When there is no signal or a film source is being viewed, the displayed time may differ slightly from the actual time.

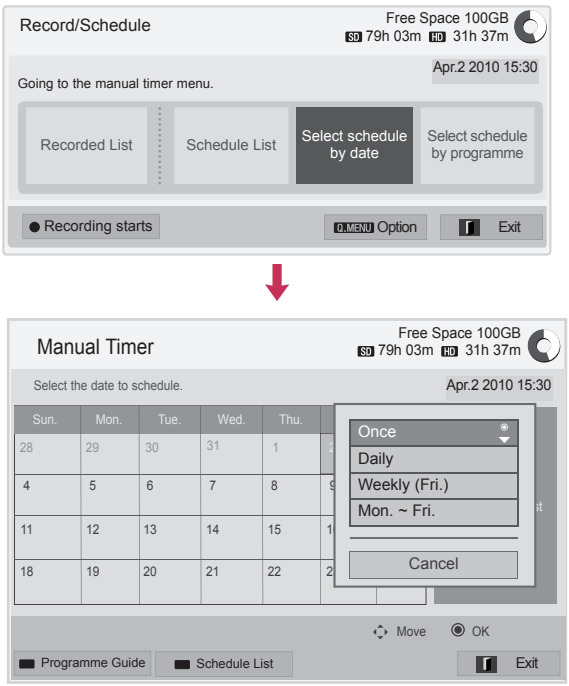
WARNING

- Broadcast materials are protected by copyright and that recording and playback of certain material would only be permissible by permission of the copyright owner.
- Audio and video recordings you make using this recorder are for your personal use only. You may not sell, lend or rent them to other people.

Schedule

Manual Timer

This function is easy to register to reserved recording. Timer recording is set.



1 After connecting USB device, press the **OK** button.

2 Press Yellow button**.**

3 Press Navigation buttons to scroll to **Select schedule by date** and press **OK**.

4 Press Navigation buttons to scroll to select a date and press **OK**.

5 Press Navigation buttons to scroll to select repeat option and press **OK**.

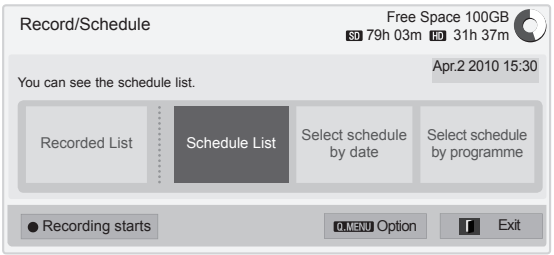
6 Press Navigation buttons to scroll to set the schedule type, time and programme and press **OK**.

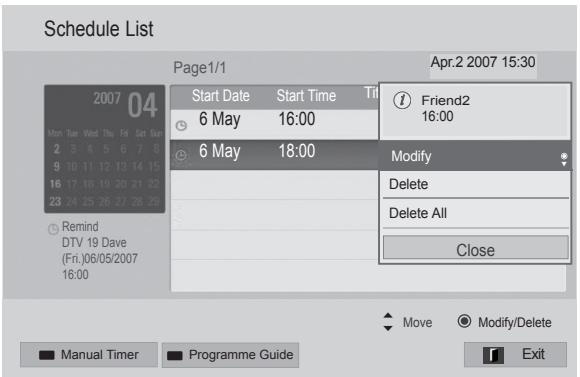
7 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

ENGLISH

Schedule List

This function is used to show scheduled programme. You can store up to 30 programmes.





1 After connecting USB device, press the **OK** button.

2 Press Yellow button**.**

3 Press Navigation buttons to scroll to **Schedule List** and press **OK**.

4 Press Navigation buttons to select a desired programme and press **OK**.

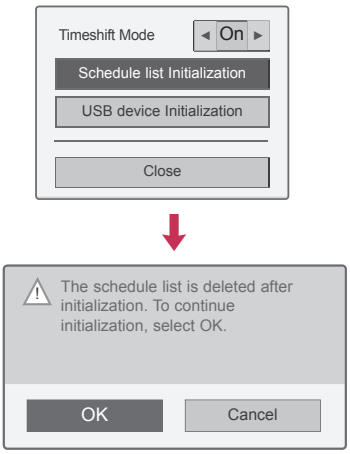
5 When you are finished, press **EXIT**.

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

Menu	Description
Modify	Edit the contents of **Start date**/ **Start time**/**End time**/**Title**/**Repeat**. You must press the **BACK** button to save the edited contents. This feature is disabled in reserved reminding.
Delete	Delete the selected item in the list.
Delete All	Delete all items in the list.
Close	Close the pop-up menu.

Schedule List Initialzation

This function is to reset the schedule list.



1 After connecting USB device, press the **OK** button.

2 Press Yellow button to show the DVR option menu and press **Q.MENU**.

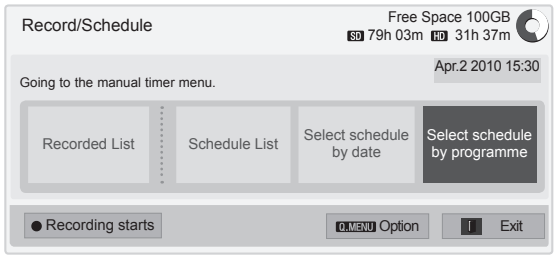
3 Press the Navigation buttons to scroll to **Schedule list Initialization** and press **OK**.

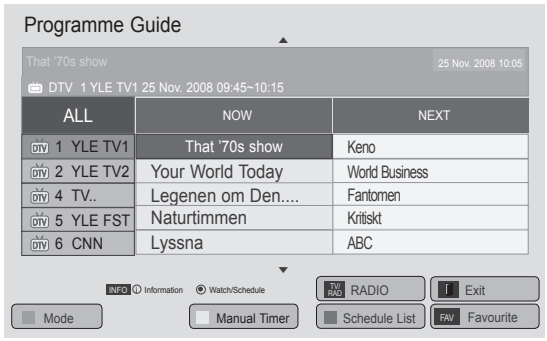
4 Press Navigation buttons to scroll to **OK** and press **OK**. Start the Schedule List Initialization.

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

Programme Guide

This function is easy to register to reserved recording. (Refer to “EPG”).





1 After connecting USB device, press the **OK** button.

2 Press Yellow button**.**

3 Press Navigation buttons to scroll to **Select schedule by programme** and press **OK**.

4 Press Navigation buttons to scroll to select a programme and press **OK**.

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

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

NOTE

- Recording is not possible with copy-protected programmes.

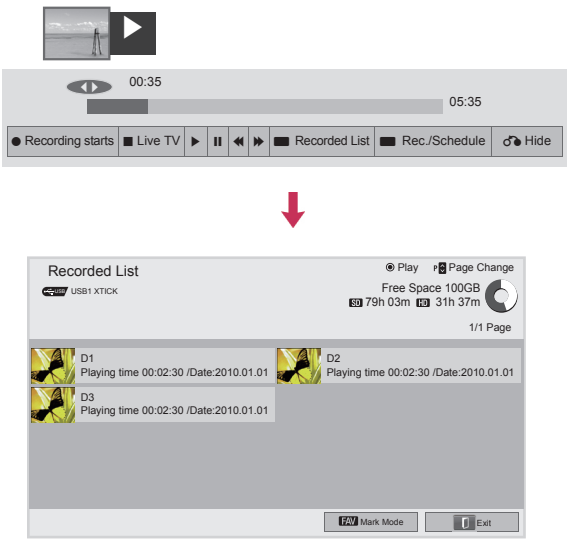
> ⓘ Programme with copy protection : failed to record.

- When a poor quality external source is recorded the quality of the recording will not be optimal.
- Manual Recording available time is maximum 5 hours and minimum 2 minutes.
- When broadcasting station send the wrong time information, reserved recording may be failed.
- If different programmes are set for the same time for on time and reserved recording, this TV is powered on to the reserved recording programme.
- If you turn off the power during the recording, the programme being recorded may not be saved. Therefore it is good to press the **STOP** (■) button and check the reserved/recorded list, and then turn off the power.
- Recording cannot be reserved for a period less than 10 seconds.
- Because the title and time of the programme for Record/Remind is based on the information transmitted from the broadcasting station, they may be different than the actual ones depending on the situation of the broadcasting station.
- Recording time may differ depending on resolution of input signal or USB HDD capacity.
- When it is time for the reserved recording to start and the power of the TV is turned off, the TV will turn on the power of the part required for the recording and proceed to the reservation.
- When it is time for the reserved recording to start and the Immediate recording is in progress, the recording of the programme currently being recorded will be stopped and saved, and then proceed to the reserved recording.
- If the TV is unplugged once or turn off, the reserved recording will not work.

Recorded TV

You can view the recorded programme list at a glance.
The recorded programme stored in the USB device can be played.

Recorded TV List



1 After connecting USB device, press the **OK** button.

2 Press Green button to select **Recorded List**.

3 Press Navigation buttons to recorded programme and press **OK**.

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

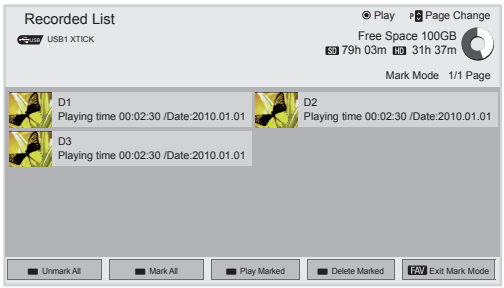
When you return to the previous menu, press **BACK**.

NOTE

- If there is a bad sector in the disk, part or all of the items of the Recording list can be deleted.
- Maximum number of recordings within the Recording list is 200. When the number of recordings in the Recording list is 200, you cannot record any more.
- When the full duration of the recording is played back, the screen will stay in the stopped condition for 10 seconds and then automatically end the playback.
- The recording can be played back even during the recording/reserved recording.
- During the playback of the recording, the hard disk can generate a certain level of noise.
- This noise is irrelevant from the performance and reliability of the product and is normal for a hard drive to have a certain level of noise.
- The programme recorded at other TV can't be played back in accordance with copyright policy. If you attempt to play back the programme recorded at other TV, you will see a black screen.

ENGLISH

Mark Mode



1 After connecting USB device, press the **OK** button.

2 Press Green button to select **Recorded List**.

3 Press **FAV** to mark your desired recorded programme.

4 Press Navigation buttons to select a desired recorded programme.

5 Press Yellow button to play the marked recorded programme.

Button	Description
Red button	**Unmark All**: Change marked recorded programmes to unmarked recorded programmes.
Green button	**Mark All**: Mark all recorded programmes in the list.
Yellow button	**Play Marked**: Play the first selected file. Once recorded programmes finishes playing, the next selected one will be played automatically.
Blue button	**Delete Marked**: Delete the marked recorded programmes.
FAV	Exit Mark Mode.

Playing Recorded programmes

You can play a selected programme from the recorded list.



1 After connecting USB device, press the **OK** button.

2 Press Green button to select **Recorded List**.

3 Press Navigation buttons to recorded programme and press **OK**.

4 Press Green button to select **Option** and press **OK**.

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

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

Menu	Description
Play on previous playtime.	Resumes playing at the previously stopped point.
Play from the start	Playback of selected recorded programmes.
Rename	Rename the programme.
Delete	Delete the programme.

ENGLISH

The 'Progress Bar'?

This function indicates what recorded programme reviewing is possible, a current on-screen and live broadcasting position.

1. Preview
2. Current location and progress time in playback
3. Total progress time of the recorded programme

- Playback
- Fast forward
- Rewind
- Pause
- Direct view +
- Direct view -
- By one screen
- Slow playback
- (Blue) Start repeat interval
- (Yellow) Start clip-edit interval
- (Blue) End repeat interval
- (Yellow) End clip-edit interval
- Repeating interval

Use of remote control

You can adjust various method during the recorded programme play.

Button	Description
◀◀ ▶▶	During playback, repeatedly, press the REW (◀◀) or FF (▶▶) button to speed up. - Every time you press the button, the search speed will increase by stage (up to 4 stages).
Green button	**Option**: Press Green button to input video and audio settings for recorded files.
Yellow button	**Clip-Edit**: Press Yellow button at the starting point where you want to set the Interval clip-edit and press it again at the ending point. To save, select Yes. - The start of the Interval clip-edit is displayed as A and end of the Interval clip-edit as B in the recording progress bar at the bottom of the screen. Start and end of the Interval clip-edit can be set both in forward and reverse direction. - Interval shorter than 10 seconds cannot be saved.
Blue button	**Repeat**: Press the Blue button at the starting point where you want to set the Interval repeat and press it again at the ending point. To cancel the playback for the interval repeat, press Blue button one more time. - The start of the Interval repeat is displayed as A and end of the Interval repeat as B in the recording progress bar at the bottom of the screen. Start and end of the Interval repeat can be set both in forward and reverse direction. - Interval shorter than 10 seconds cannot be set. - When the Interval repeat is cancelled, it will return to normal playback from the end point of the interval.
II ▶▶	During playback, press the Pause(II) button. - Pause screen is displayed. - Every time you press the Pause(II) button from the pause screen, it will move screen by screen (II▶). - Press the Pause(II) button and then use the FF (▶▶) button for slow motion (I▶). - If you don't press any button 10 minutes after the pause, it will return to the playback.
< >, OK	When you move the cursor using the navigation (< >) button during playback, and then press the **OK** button, the screen will directly play at the applicable screen where the cursor is located. (↷,↶)
3D (Only 3D models)	Uses for viewing 3D video.

ENGLISH

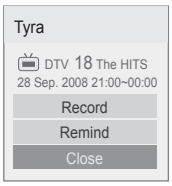
EPG (Electronic Programme Guide) Function (In digital mode)

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.



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

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



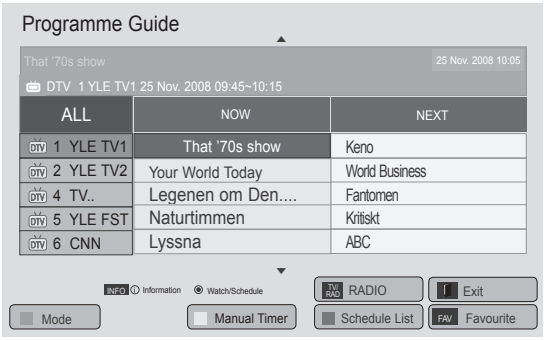
OK	**Record** : A pop-up window for record settings appear. **Remind** : Reserved.
∧ ∨	Select Timer Record/Remind setting mode.

Switch on/off EPG

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

Select a programme

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



ENGLISH

NOW/NEXT Guide Mode

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

Button	Description
Red button	Change EPG mode.
Yellow button	Enter Manual Timer mode. (See p.85)
Blue button	Enter Schedule List mode. (See p.86)
OK	When 'NOW' is selected, it is moved to selected Programme and EPG disappears. When 'NEXT' is selected, a reservation pop-up window appears.
< >	Select NOW or NEXT Programme.
^ v	Select the Broadcast Programme.
P ^ v	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.
FAV	Change Favourite mode.

Date Change Mode

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

8 Day Guide Mode

Button	Description
Red button	Change EPG mode.
Green button	Enter Date setting mode.
Yellow button	Enter Manual Timer mode. (See p.85)
Blue button	Enter Schedule List mode. (See p.86)
OK	When 'Currently broadcasting programme' is selected, it is moved to selected programme and EPG disappears. When 'Future broadcasting programme' is selected, a reservation pop-up window appears.
< >	Select Programme.
^ v	Select the Broadcast Programme.
P ^ v	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.
FAV	Change Favourite mode.

Extended Description Box

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

ENGLISH

3D IMAGING

(Only 3D Models)

3D Technology

This TV can display in 3D via 3D broadcasting or when the TV is connected to a compatible device, such as a Blu-ray 3D Player. The viewer must wear compatible 3D glasses in order to see these images in 3D format.

WARNING

- We recommend that you maintain a distance of at least twice the screen diagonal length when watching 3D videos.
- To watch the TV in 3D, you must put on your 3D glasses. For best results, you should wear LG Brand 3D glasses. The 3D imaging may not display properly when using another brand of 3D glasses. Please see the 3D glasses manual for instructions on how to use the 3D glasses.
- When watching 2D images, it is recommended to take off the 3D glasses. If you watch 2D images with the 3D glasses on, you may see distorted images.
- If you watch the 3D imaging too closely or for a long period of time, it may harm your eyesight.
- Watching the TV or playing video games that incorporate 3D imaging with the 3D glasses for a long period of time can cause drowsiness, headaches or fatigue to you and/or your eyes. If you have a headache, or otherwise feel fatigued or drowsy, stop watching the TV and have a rest.
- Pregnant woman, seniors, persons with heart problems or persons who experience frequent drowsiness should refrain from watching 3D TV.
- Some 3D imaging may cause you to duck or dodge the image displayed in the video. Therefore, it is best if you do not watch 3D TV near fragile objects or near any objects that can be knocked over easily.
- Please prevent children under the age of 5 from watching 3D TV. It may affect their vision development.
- Warning for photosensitization seizure:
  Some viewers may experience a seizure or epilepsy when exposed to certain factors, including flashing lights or images in TV or video games. If you or anybody from your family has a history of epilepsy or seizure, please consult with your doctor before watching 3D TV.
  Also certain symptoms can occur in unspecified conditions without any previous history. If you experience any of the following symptoms, immediately stop watching the 3D imaging and consult a doctor: dizziness or light-headedness, visual transition or altered vision, visual or facial instability, such as eye or muscle twitching, unconscious action, convulsion, loss of conscience, confusion or disorientation, loss of directional sense, cramps, or nausea. Parents should monitor their children, including teenagers, for these symptoms as they may be more sensitive to the effects of watching 3D TV.
- Risk of photosensitization seizure can be reduced with the following actions.
  - » Take frequent breaks from watching 3D TV.
  - » For those who have vision that is different in each eye, they should watch the TV after taking vision correction measures.
  - » Watch the TV so that your eyes are on the same level as the 3D screen and refrain from sitting too closely to the TV.
  - » Do not watch the 3D imaging when tired or sick, and avoid watching the 3D imaging for a long period of time.
  - » Do not wear the 3D glasses for any other purpose than viewing 3D imaging on a 3D TV.
  - » Some viewers may feel disoriented after watching 3D TV. Therefore, after you watch 3D TV, take a moment to regain awareness of your situation before moving.

NOTE

(Only 32/42/47/55LW47**, 47LK95**)

- When watching digital TV in 3D imaging mode, monitor out signals cannot be output through the SCART cable.
- If you set the 3D mode to On while a scheduled recording is performed on digital TV, monitor out signals cannot be output through the SCART cable, and the recording cannot be performed.
- If 3D TV broadcast standard changes in the future and it is not supported by this TV set, you may need a separate device, such as a set-top-box.

NOTE

(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)

- After powering on the TV, a few seconds may be needed for your TV to calibrate.
- If there is an obstacle between the TV and the 3D glasses, the 3D imaging may not display properly.
- Do not use the TV in close proximity to other electronic equipments and RF equipments.
- When watching digital TV in 3D imaging mode, monitor out signals cannot be output through the SCART cable.
- If you set the 3D mode to On while a scheduled recording is performed on digital TV, monitor out signals cannot be output through the SCART cable, and the recording cannot be performed.
- The 3D imaging may not display if it is viewed while you are lying down.
- It may take a moment for you to see the 3D imaging if you look away from the TV and then revert your eyes back to the 3D programme.
- The TV may flicker slightly if the 3D imaging is displayed under fluorescent. In such instances, It is recommended to turn the lights off or to dim the lights.
- If 3D TV broadcast standard changes in the future and it is not supported by this TV set, you may need a separate device, such as a set-top-box.

ENGLISH

When using 3D Glasses

CAUTION

- Do not use the 3D glasses to replace your corrective glasses, sunglasses or protective goggles.
- Do not store the 3D glasses in hot or cold locations.
- Do not drop objects onto the 3D glasses. Do not drop or bend the glasses.
- Since the lenses of the 3D glasses are easily scratched, make sure to clean only with a soft cloth. Shake off any dust before using the cloth since the glasses are easily scratched.
- A communication failure may occur if the glasses are near electronic devices that use the same bandwidth (2.4 GHz), such as a microwave oven or wireless LAN product.

3D Imaging Viewing Range

(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)

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

Viewing Distance	Maximum Viewing Distance
2 m to 7 m	10 m

Viewing 3D Imaging

1 Play the video produced in 3D.

2 Press **3D** to watch 3D imaging.

3 Wear the 3D glasses.

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

5 Press the Navigation buttons to scroll the shape and press **OK**. (See "3D supported mode")

Mode	Description
2D » 3D	Changed from 2D imaging to 3D imaging. 2D-to-3D converted videos may appear less realistic than titles originally produced as 3D videos. 
Side by Side	
Top & Bottom	
Checker Board	
Frame Sequential	

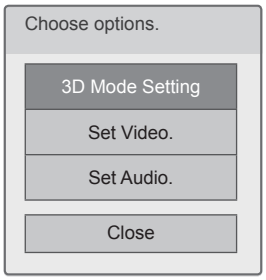
6 Press **3D** button to **2D Off** or **3D Off**.

Option	Description
3D -> 2D	Displays images in 2D without any 3D effects.
3D Off	Displays images in original format.
2D -> 3D	Displays images in 3D.
Cancel	Close the pop-up window.

Setting 3D Imaging

1 Press the **3D OPTION** while viewing 3D imaging. A pop-up window will appears.

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



3D Mode Setting

Option (Depending on model)	Description
3D Picture Size	Cuts off the outer edges of the picture and stretch it to fit the full screen in 3D mode.
3D Depth	Adjusts the stereoscopic effect of the 3D image converted from a 2D image.
3D Viewpoint	Moves the 3D image to the front and back to adjust the 3D perspective view.
3D Picture Balance	Adjusts the colour and brightness difference between the right and left sides of the picture in 3D mode.
3D Picture Correction	Select **Left/Right** or **Right/Left**. Select the screen with 3D video with better visibility.
3D Optimization	Optimizes the 3D image screen for the viewing environment.

Set Video.

Allows you to change Video settings. (Refer to “PICTURE Settings”)

Set Audio.

Allows you to change Audio settings. (Refer to “AUDIO Settings”)

ENGLISH

CAUTION

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

NOTE

(Only 32/42/47/55LW47**, 47LK95**)

- If you select 3D mode, “Power indicator” is turned off automatically.
- You can only choose “**Off** or **Cinema**” with the **AV MODE** button on the remote control.
- Energy Saving is disabled while playing in 3D.
- You cannot enter the Home menu while watching 3D files.

NOTE

(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)

- You cannot enter the Home menu while watching 3D files.

CUSTOMIZING TV SETTINGS

The SETUP Menu

1 Press **Home** to access the Home menu.

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

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

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

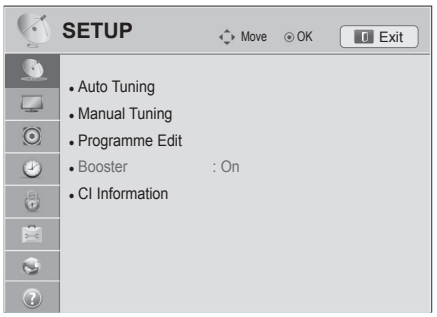
5 When you are finished, press **EXIT**.

Menu		Description
	SETUP	Sets up and edit programmes.
	PICTURE	Adjusts the image size, quality, or effect.
	AUDIO	Adjusts the sound quality, effect, or volume level.
	TIME	Sets the time, date, or timer feature.
	LOCK	Locks or unlocks channels and programmes.
	OPTION	Customizes the general settings.
	NETWORK	Sets up the network setting.
	SUPPORT	Checks the customer information.

ENGLISH

Customizing Settings

SETUP Settings



1 Press **Home** to access the Home menu.

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

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

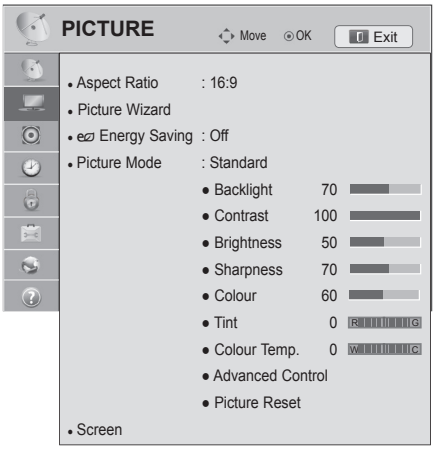
4 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

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

The available programme settings are described in the following:

Setting	Description
Auto Tuning	Tunes and stores all available programmes through antennas or cable or satellite inputs. (See p.32)
Manual Tuning	Tunes and stores the programmes you want manually. (See p.37)
Programme Edit	Edits programmes. (See p.40)
Booster	Sets to the optimised sensitivity depending on the signal reception. (See p.41)
CI Information	Enables you to watch some encrypted services (pay services). (See p.41)
Cable DTV Setting (In Cable, Cable & Satellite(-Only satellite models) mode only)	Sets various options for viewing cable DTV. (See p.35)
Satellite DTV Setting (In Satellite, Antenna & Satellite, Cable & Satellite mode only-Only satellite models)	Sets various options for viewing satellite DTV. (See p.35)
Tivu Programme List Update (In Satellite, Antenna & Satellite, Cable & Satellite mode only-Only satellite models, Only Italy)	It updates the changed Programme List information by based on country broadcasting circumstance and satellite. (See p.36)

PICTURE Settings



1 Press **Home** to access the Home menu.

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

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

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

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

The available picture settings are described in the following:

Setting	Description
Aspect Ratio	Changes the image size to view images at its optimal size. (See p.42)
Set 3D Video (Only 3D models)	Sets the 3D imaging option. (See p.93)
Picture Wizard	Adjusts the image quality and calibrates the screen. The customized options will be saved as **Expert1** in the **Picture Mode**. **NOTE** • If you use **Picture Wizard**, the Energy saving feature will turn off automatically. • To reset changes made by **Picture Wizard**, operate **Picture Reset** when **Picture Mode** is on **Expert1**. • In RGB-PC/HDMI-PC/DVI-PC mode, the changed **Colour**, **Tint** and **H/V Sharpness** values are not applied.
Energy Saving	Reduces the power consumption by adjusting the screen brightness. **NOTE** • When adjusting Energy Saving in MHEG/MHP mode, the Energy Saving setting is applied after MHEG/MHP is finished. • Selecting 'Screen Off' while tuned to a radio station channel will reduce power consumption. • When selecting **Auto** or **Maximum**, **Backlight** will not work. (Only LED LCD TV / LCD TV)

Option	
Auto (Only LED LCD TV / LCD TV)	The backlight is adjusted automatically corresponding to the surroundings when selecting **Auto** using the **Intelligent sensor** feature.
Intelligent sensor (Only Plasma TV)	The most suitable picture is automatically adjusted corresponding to the surroundings.
Off	Select if this feature is not necessary.
Minimum/Medium/Maximum	Selects the brightness level.
Screen off	The screen turns off in 3 seconds. Pressing any button of the remote control will turn on the screen again.

ENGLISH

<table>
<tr><th>Setting</th><th colspan="2">Description</th></tr>
<tr><td>Picture Mode</td><td colspan="2">Selects one of the preset image or customizes options in each mode for the best TV screen performance. You are also able to customize advanced options of each mode.
The available preset picture modes vary depending on the TV.
NOTE
• If you select Intelligent Sensor, the Energy saving feature will switch to Auto automatically. (Only LED LCD TV / LCD TV)
• If you selecting THX Cinema or THX Bright Room, the Aspect ratio feature will switch to Just scan automatically.</td></tr>
<tr><td></td><td colspan="2">Mode (Depending on model)</td></tr>
<tr><td></td><td>Intelligent Sensor</td><td>Sets the TV to adjust the image settings, such as contrast, brightness, sharpness, colour, or tint, automatically corresponding to the surrounding environments.</td></tr>
<tr><td></td><td>Vivid</td><td>Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.</td></tr>
<tr><td></td><td>Standard</td><td>Adjusts the image for the normal environment.</td></tr>
<tr><td></td><td>APS Auto Power Save</td><td>Maximizes video images reducing power consumption without hurting picture quality.</td></tr>
<tr><td></td><td>Cinema</td><td>Optimizes video images for a cinematic look to enjoy movies as if you are in a movie theatre.</td></tr>
<tr><td></td><td>THX Cinema,
THX Bright Room</td><td>Provides a cinema experience while watching a movie at home. The user will be able enjoy the best level of screen quality in without any separate adjustments.
- THX Cinema express the optimal screen quality when the room is dark.
- THX Bright Room express the optimal screen quality when the room is bright.
NOTE
• THX : THX (Thomlinson Holman’s Experiment) is an audio and video certification standard established by George Lucas and Thomlinson. A THX certified display guarantees screen quality that exceeds the display standard specification in both hardware and software.</td></tr>
<tr><td></td><td>Sport</td><td>Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.</td></tr>
<tr><td></td><td>Game</td><td>Optimizes the video image for a fast gaming screen for PCs or games.</td></tr>
<tr><td></td><td>Photo</td><td>Optimizes the still image like a photo file in HDMI, USB mode.
» e.g.) when connecting the external device like a DSLR.</td></tr>
<tr><td></td><td>Expert</td><td>Adjusts the detailed video image settings for video experts as well as general viewers.
NOTE
• ISFccc (ISFccc: Imaging Science Foundation Certified Calibration Control) : This TV contains the detailed calibrations necessary for professional certification by the Imaging Science Foundation. The resulting ISF “day” and “night” modes will then be accessible by the user to experience the best their LG HDTV has to offer.
Sophisticated and detailed calibrations can be made through the ISFccc mode.
Detailed calibration requires a licensed technician. Please contact your local dealer to inquire about an ISF certified technician.</td></tr>
</table>

Setting	Description	
TruMotion (Depending on model)	Advance video technology that provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture. TruMotion works with all inputs except PC mode. **NOTE** • If you enable “TruMotion”, noise may appear on the screen. If this occurs, set “TruMotion” to “Off”. • If you select “Picture Mode-Game ”, set “TruMotion” to “Off”.	
	Mode	
	High	Provides smoother picture movement.
	Low	Provides smooth picture movement. Use this setting for standard use.
	Off	Turn off TruMotion operation.
	User	De-Judder: Adjusts noise of the screen. De-Blur: Adjusts after-image of the screen.
Screen	Customizes the PC display options.	
	Option	
	Resolution	Selects a proper resolution when your PC uses.
	Auto Config.	Sets the TV to optimize the options automatically for the TV display.
	Position	Locates the image at the proper position.
	Size	Adjusts the image size.
	Phase	Eliminates horizontal streaking.
	Reset	Restores the options to the default setting.
LED Local Dimming (Depending on model)	After analysing the signal of the input video by areas of the screen, it adjusts the backlight to improve the contrast ratio.	
	Mode	
	Off	Turn off LED Local Dimming operation.
	Low	Brightens the picture and deepens black levels using the soft local dimming.
	Medium	Deepens black levels using the strong local dimming.
	High	Clears the picture and deepens black levels using the strong local dimming.

Basic image options

Setting	Description
Backlight (Only LED LCD TV / LCD TV)	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss. **NOTE** • If you use the "**Energy Saving** - **Off**, **Minimum**, **Medium**", **Backlight** will be available.
Contrast	Increases or decreases the gradient of the video signal. You may use **Contrast** when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Colour	Adjusts intensity of all colours.
Tint	Adjusts the balance between red and green levels.
Colour Temp.	Set to warm to enhance hotter colours such as red, or set to cool to enhance cooler colours such as blue.
Advanced Control or **Expert Control**	Customizes the advanced options.
Picture Reset	Restores the options of each mode to the factory default.

NOTE

- It is not available to use this function in **Intelligent Sensor**, APS, **THX Cinema**, **THX Bright Room**.
- You cannot adjust colour, sharpness and tint in the RGB-PC/HDMI-PC mode.
- When the **Expert 1**/**2** is selected, you can select **Backlight**, **Contrast**, **Brightness**, **H Sharpness**, **V Sharpness**, **Colour** or **Tint**.

ENGLISH

Advanced image options (Depending on model)

Setting	Description
Dynamic Contrast	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour	Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
Clear White	Make the white area of screen brighter and more white.
Skin Colour	It detects the skin area of video and adjusts it to express a natural skin colour.
Noise Reduction	Reduces screen noise without compromising video quality.
Super Resolution	Provides a crystal-clear picture by improving the details in an area that has a blurry or unclear picture.
MPEG Noise Reduction	Removes noise caused by compressing video.
Gamma	You can adjust brightness of dark area and middle gray level area of the picture. » **Low**: Make the dark and middle gray level areas brighter. » **Medium**: Express the original picture level. » **High**: Make the dark and middle gray level area darker.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: TV(NTSC-M/J, PAL-M, PAL-N), AV (NTSC-M/J, PAL-M, PAL-N), HDMI or Component. » **Auto**: Sets black level of the screen to High or Low automatically according to the input signal level. » **Low**: The reflection of the screen gets darker. » **High**: The reflection of the screen gets brighter.
Eye Care	Adjusts the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is enabled in "**Picture Mode**-**Standard**, **Game**".

Setting	Description	
Real Cinema or **Film Mode**	Makes video clips recorded in film look more natural by eliminating judder effect. Uses this function when you watch film-originated movie contents. This function can also work when TruMotion is off.	
Colour Gamut	LED LCD TV / LCD TV	**Advanced Control** » Maximizes the utilization of colour to increase colour quality. » **Standard**: Displays standard set of colours. » **Wide**: Increase number of colours used. **Expert Control** Displays colour domain of the signal. » **Standard**: Displays standard set of colours. » **Wide**: Increase number of colours used. » **EBU**: Mode to display EBU standard colour area. » **SMPTE**: Mode to display SMPTE standard colour area. » **BT709**: Mode to display BT709 standard colour area.
	Plasma TV	**Advanced Control**, **Expert Control** » Maximizes the utilization of colour to increase colour quality. » **Standard**: Displays standard set of colours. » **Wide**: Increase number of colours used. **Photo mode** » **Wide**: Increase number of colours used. » **sRGB**: Mode to display sRGB standard colour gamut.
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video. This function works well over Sharpness UI 60 value.	
xvYCC	This feature is not available for all models. This is produces richer colours. This feature represents rich colours as much as a conventional video signal. This function is enabled in “Picture mode - Cinema, Expert” when xvYCC signal is inputted through HDMI.	
Expert Pattern	This is the pattern used for expert adjustment. This function is enabled in “Picture Mode - Expert” when you watch DTV.	
Colour Filter	This is the function to filter the specific colours of the video. You can use the RGB filter to set colour saturation and hue accurately.	
Colour Temperature	Adjusts the overall colour of the screen by changing the white baseline.	
	LED LCD TV / LCD TV	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. c. Apply to all inputs
	Plasma TV	a. Method : 2 Points • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 to +50. b. Method : 20 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 5, 10, 15 to 100. You can adjust Red, Green or Blue according to each setting. • Red/Green/Blue: The adjustment range is -50 to +50. c. Apply to all inputs
Colour Management System	As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video. Adjusts Red/Green/Blue/Yellow/Cyan, Magenta. » Red/Green/Blue/Yellow/Cyan, Magenta Colour: The adjustment range is -30 to +30. » Red/Green/Blue/Yellow/Cyan, Magenta Tint: The adjustment range is -30 to +30. This feature is disabled in RGB-PC and HDMI-PC mode.	

AUDIO Settings



1 Press **Home** to access the Home menu.

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

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

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

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

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

The available audio settings are described in the following:

Setting	Description	
Auto Volume	Activates the Auto Volume feature to keep the volume level consistent whenever you change channels. The volume level may not be consistent due to different signal conditions of broadcasting stations.	
Clear Voice Ⅱ	Sets whether to enhance human voice clarity. You can adjust the level of clarity when you set this feature on.	
Balance	Adjust balance between the left and right speakers according to your room environment.	
Sound Mode	Selects one of the preset sound modes or customizes options in each mode.	
	Mode	
	Standard	Select when you want standard-quality sound.
	Music	Select when you listen to music.
	Cinema	Select when you watch movies.
	Sport	Select when you watch sports events.
	Game	Select when you play games.
	NOTE • If sound quality or volume is not at the level you want, it is recommended to use a separate home theatre system or amplifier to cope with different user environments. • If you select "**On**" for **Clear Voice II**, **Infinite 3D Surround** feature will not work.	
	Option	
	Infinite 3D Surround	Patents LG proprietary sound processing technology that strives immersive 5.1 surround sound with just two front speakers.
	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
	Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.
	Sound Reset	Resets the sound mode to the default setting.
Sound Optimizer	Optimizes the sound depending on the environment in which the TV is installed.	
	Option	
	Normal	Normal sound mode.
	Wall Mount Type	Optimized sound mode for a wall-mounted TV.
	Stand Type	Optimized sound mode for a stand-type TV.

<table>
<tr><th>Setting</th><th colspan="3">Description</th></tr>
<tr><td>Digital Audio Out</td><td colspan="3">This function allows you to select your preferred Digital Audio Output.
When Dolby Digital is available, selecting Auto in the Digital Audio Out menu will set SPDIF(Sony Philips Digital InterFace) output to Dolby Digital.
If Auto is selected in the digital audio out menu when Dolby Digital is not available, SPDIF output will be PCM(Pulse-code modulation).
Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.</td></tr>
<tr><td></td><td>Item</td><td>Audio Input</td><td>Digital Audio output</td></tr>
<tr><td></td><td>Auto</td><td>MPEG
Dolby Digital
Dolby Digital Plus</td><td>PCM
Dolby Digital
Dolby Digital
Dolby Digital</td></tr>
<tr><td></td><td>PCM</td><td>All</td><td>PCM</td></tr>
<tr><td>TV Speaker</td><td colspan="3">Turns on the internal speaker of the TV when using an external Hi-Fi system. You can use the TV speaker as an audio output device even if there is no video input.
NOTE
• When the TV speaker is turned off while the Simplink home theatre is operating, the sound output automatically switches to the Home theatre speaker, but when the TV speaker is turned on, the sound output the TV speaker.
• Some menus in AUDIO are disabled when TV speaker is set to Off.</td></tr>
<tr><td>ARC Mode
(Audio Return Channel)</td><td colspan="3">When using an external audio device with the ARC (Audio Return Channel) feature, SPDIF can be output using only a High Speed HDMI cable without an additional optical cable.
NOTE
• Some HDMI cables may not support this mode. (A High Speed HDMI cable is recommended.)
• The ARC mode only works on the HDMI 1 (Only LED LCD TV / LCD TV) or HDMI 3 (Only Plasma TV) input on the TV.
• Activates the SIMPLINK feature to use this feature.</td></tr>
<tr><td></td><td colspan="2">Option</td></tr>
<tr><td></td><td>On</td><td>If the device with the ARC feature is turned on, the device speaker is automatically used when SIMPLINK is enabled.</td></tr>
<tr><td></td><td>Off</td><td>Even if the device with the ARC feature is turned on and SIMPLINK is enabled, the device speaker is not automatically used.</td></tr>
<tr><td>DTV Audio Setting
(In digital mode)</td><td colspan="2">When different audio types exist in an input signal, this function allows you to select the audio type you want.</td></tr>
<tr><td></td><td colspan="2">Mode</td></tr>
<tr><td></td><td>Auto</td><td>Automatically outputs in the order Dolby Digital+ > Dolby Digital > MPEG.(Except for Italy)
Automatically outputs in the order Dolby Digital+ > MPEG > Dolby Digital.(Only Italy)</td></tr>
<tr><td></td><td>Dolby Digital+, Dolby Digital, MPEG</td><td>Allows users to select the audio type they want.
e.g.) If MPEG is selected, MPEG is always outputted.
If MPEG is not supported, another audio type is set in that order.</td></tr>
<tr><td>AV Sync.</td><td colspan="2">If the video and sound are not synced, you can adjust it manually.
(-) setting : Make audio output faster than the default.
(+) setting : Make audio output slower than the default.</td></tr>
<tr><td></td><td colspan="2">Option</td></tr>
<tr><td></td><td>AV Sync.</td><td>Adjusts the sync of the TV speaker and SPDIF.</td></tr>
<tr><td></td><td>TV Speaker</td><td>Adjusts the sync of the sound from the TV's internal speaker.</td></tr>
<tr><td></td><td>SPDIF (Sony Philips Digital InterFace)</td><td>Adjusts the sync of the sound from an external speaker connected to the digital audio output port.</td></tr>
</table>

ENGLISH

Stereo/Dual Reception (In Analogue Mode Only)

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

1 Press **Q. MENU**.

2 Press the Navigation button to access the **Audio** or **Audio Language** and press **OK**.

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

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

- **Mono sound selection**
  If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the 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 I I Sends the secondary broadcast language to the loudspeakers.
DUAL I+I I Sends a separate language to each loudspeaker.

Nicam Reception (In Analogue Mode Only)

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

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

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

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

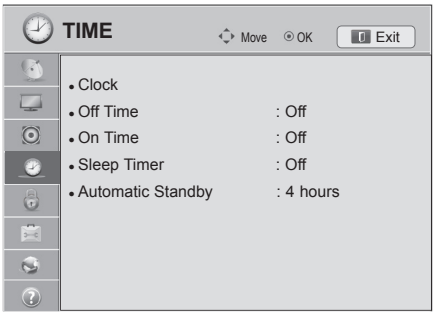
3 When **NICAM** dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **FM MONO**.

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.

TIME Settings



1 Press **Home** to access the Home menu.

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

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

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

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

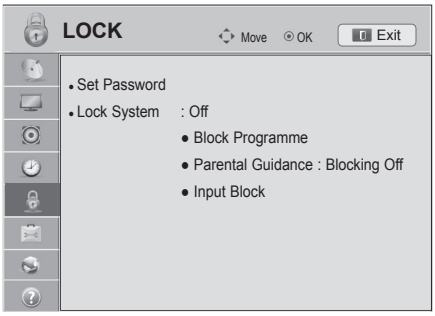
The available time settings are described in the following:

Setting	Description
Clock	Sets the time, date, time zone, and daylight-saving time feature. The time will be set automatically according to a digital channel signal which includes time information provided by the broadcasting station. If not, set the time and date manually. **NOTE** • The TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal. • When if the city name in Time Zone is changed into offset, you can change time by 1 hour. • Time Zone menu can be changed in Auto mode. **Time Zone**: Moscow, Yekaterinburg, Omsk, Krasnoyarsk, Irkutsk, Yakutsk, Vladivostok, Magadan, Kaliningrad This Table means the Time Zone table of 9 area of Russia, and when the user selects the Time Zone for his or her area, it automatically sets the time for the corresponding area. However, even though the user selected his or her area, if the broadcasting station's local time offset is not offered, or if the region information does not match, then the user may select the Offset from the Time Zone to set the correct time.

ENGLISH

Setting	Description
Off Time/ **On Time**	Sets the time to turn on or off the TV automatically. To use this function, you should set the current time and date in advance. **NOTE** • If you do not press any button within 2 hours after the TV turns on by the On Time feature, the TV enters the Standby mode automatically. • If you set both Off time and On time features to the same time, the Off time feature over rides the On time feature.
Sleep Timer	Sets the length of time until the TV to turns off. When you turn the TV off and turn it on again, the Sleep timer feature will be set to off.
Automatic Standby (Depending on model)	If you do not press any button when Automatic Standby function is on, the TV automatically switches to the standby mode. **NOTE** • This function does not work on Store Demo mode or while software update.

LOCK Settings



1 Press **Home** to access the Home menu.

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

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

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

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

The available lock settings are described in the following:

Setting	Description
Set Password	Changes the 4-digit password. The default PIN is '0','0','0','0'. When France is selected for Country, password is not '0','0','0','0' but '1','2','3','4'. When France is selected for Country, password cannot be set as '0','0','0','0' . If you forget your password, press '0', '3','2', '5' on the remote control handset.
Lock System	Activates or deactivates the lock system.
Block Programme	Blocks the programmes that contain inappropriate contents for children. The programmes can be selected but the screen blank and the audio is muted. To watch a locked programme, enter the password. It is available to use this function in **Lock System** "**On**".
Parental Guidance	This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate. A password is required to gain access to this menu. This set is programmed to remember which option it was last set to even if you switch the set off. Prevents children from watching certain adult's TV programmes, according to the ratings limit set. Enter a password to watch a blocked programme. Rating differs by country.
Input Block	Block the input sources. It is available to use this function in **Lock System** "**On**".

OPTION Settings



1 Press **Home** to access the Home menu.

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

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

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

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

The available general settings are described in the following:

<table>
<tr><th>Setting</th><th colspan="2">Description</th></tr>
<tr><td rowspan="6">Language</td><td colspan="2">Selects a language for the display or audio.</td></tr>
<tr><td colspan="2">Option</td></tr>
<tr><td>Menu Language</td><td>Select your desired language.</td></tr>
<tr><td>Audio Language</td><td>The Audio function allows selection of a preferred language.
If audio data in a selected language is not broadcast, the default language audio will be played.
Audio Language OSD Information
<table>
<tr><th>Display</th><th>Status</th></tr>
<tr><td>N.A</td><td>Not Available</td></tr>
<tr><td>MPEG</td><td>MPEG Audio</td></tr>
<tr><td>D</td><td>Dolby Digital Audio</td></tr>
<tr><td></td><td>Audio for “Visual Impaired”</td></tr>
<tr><td>ABC</td><td>Audio for “Hearing Impaired”</td></tr>
<tr><td>D+</td><td>Dolby Digital Plus Audio</td></tr>
<tr><td>MUTE</td><td></td></tr>
</table></td></tr>
<tr><td>Subtitle Language</td><td>Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.
Subtitle Language OSD Information
<table>
<tr><th>Display</th><th>Status</th></tr>
<tr><td>N.A</td><td>Not Available</td></tr>
<tr><td>TXT</td><td>Teletext Subtitle</td></tr>
<tr><td>ABC</td><td>Subtitle for “Hard of Hearing”</td></tr>
</table></td></tr>
<tr><td>Text Language</td><td>In Digital mode, use the Text language function when two or more Text languages are broadcast. If teletext data in a selected language is not broadcast, the default Text language page will be displayed.</td></tr>
<tr><td colspan="3">NOTE
• When the languages you selected as the primary for Audio Language and Subtitle Language and Text Language are not supported, you can select language in secondary category.
• The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
• When you select supplementary Audio (Audio for “Visual/Hearing Impaired”) the TV may output a part of the Main audio.</td></tr>
</table>

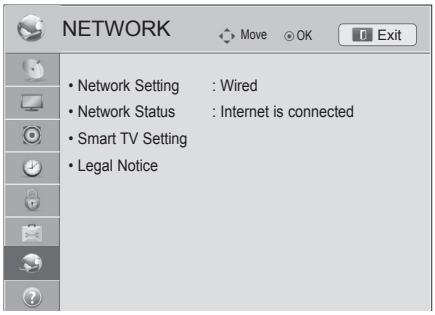
<table>
<tr><th>Setting</th><th colspan="2">Description</th></tr>
<tr><td>Country</td><td colspan="2">Selects a desired country. (Depending on model)

NOTE
• If you do not finish the set-up Installation Guide by pressing BACK or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on.
• If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
• The CI (Common Interface) function may not be applied based on country broadcasting circumstances.
• DTV mode control buttons may not function based on country broadcasting circumstances.
• In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances.
• The Country Setting "UK" should only be activated in UK.
• If the country setting is set to "--", European terrestrial digital standard broadcasting programmes are available, but some DTV functions may not work properly.</td></tr>
<tr><td rowspan="5">Disability Assistance
(In digital mode)</td><td colspan="2">Audio commentary or subtitles are provided for those who are hard of hearing or visually impaired.</td></tr>
<tr><td>Option</td><td></td></tr>
<tr><td>Hard of Hearing</td><td>This function if for the hearing impaired.
If it is set to on, the subtitle is displayed by default.</td></tr>
<tr><td>Audio Description</td><td>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.</td></tr>
<tr><td>Volume</td><td>Changes the Audio Description volume.</td></tr>
<tr><td></td><td>Beep</td><td>Beeps when a programme with Audio Description information is selected.</td></tr>
<tr><td rowspan="4">Power Indicator
(Only LED LCD TV)</td><td colspan="2">Sets to turn on or off the indicator light on the TV.</td></tr>
<tr><td>Option</td><td></td></tr>
<tr><td>Standby Light</td><td>Set to turn on or off the indicator light in Standby mode.</td></tr>
<tr><td>Power Light</td><td>Set to turn on or off the indicator light when you turn on the power.</td></tr>
<tr><td rowspan="5">ISM Method
(Only Plasma TV)</td><td colspan="2">Prevents image sticking or removes a ghost image.
A frozen still picture displayed on the screen for prolonged periods can result in a ghost image.</td></tr>
<tr><td>Option</td><td></td></tr>
<tr><td>Normal</td><td>Sets it if image sticking is never a problem.</td></tr>
<tr><td>Orbiter</td><td>Avoids a ghost image on the screen.
The image will move every 2 minutes to help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen.</td></tr>
<tr><td>Colour Wash</td><td>Removes a ghost image on the screen.
The colour block with the screen moved a little and the white pattern are alternately displayed. It is difficult to see the after image on all colours.
Once it has been corrected it will not be visible in any colour.</td></tr>
<tr><td>White Wash</td><td>Removes a ghost image on the screen.
Use sparingly. Watch the TV normally for a while before using this feature to see if the ghost image disappears on its own.

NOTE
• An excessive ghosted image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button.</td></tr>
</table>

Setting	Description	
HbbTV (Depending on model)	LED LCD TV / LCD TV : This function works in Germany, France only. Plasma TV : This function works in Germany only. The service may be limited when the device is not connected to the network.	
Pointer (Depending on model)	Sets the pointer option of the magic motion remote control.	
	Option	
	Speed	Changes the pointer speed.
	Shape	Selects the pointer shape.
	Size	Changes the pointer size.
	Alignment	Align the remote control's direction with the pointer on your TV screen by shaking the remote control left and right. Then, the pointer automatically moves to the center of the screen.
Smart Share Setting	Sets the DivX and DLNA option.	
	Option	
	DivX VOD Registration	Registers your TV to play DivX protected videos. (See p.71)
	DivX Deregistration	Deregisters your TV. (See p.71)
	DMR	Activates or deactivates the DMR (Digital Media Render) connection.
Data Service (Only in Ireland)	This function allow users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time. If only one of them exists, either MHEG or Teletext is enabled regardless of which option you selected.	
Factory Reset	Resets the TV to factory default and erases all stored programmes. Customizes the TV settings to suit your preference. The factory reset screen will appear when you turn on the TV for the first time. **NOTE** • In **Lock System** "**On**", if you forget your password, press '0', '3', '2', '5' on the remote control handset.	
Set ID	Adds an ID to the connected devices	
Mode Setting	Default selection is "Home Use". We recommend setting the TV to "Home Use" mode for the best picture in your home environment.	
	Option	
	Home Use	Selects it for the home environment.
	Store Demo	Selects it for the retail environment.
	Demo Mode	Sets to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons. **NOTE** • It is not possible to use **Demo Mode** in **Home Use** mode. • In **Store Demo, Demo Mode** is automatically set to **On**. • Once **Demo Mode** is set to **Off** in **Store Demo**, **Demo Mode** does not run and only the screen is reset. • The screen is reset automatically after 5 minutes in **Demo Mode**.
MHP Auto start (Only Italy) (Depending on model)	This menu is enabled only in Italy and MHP services of the other contries may not work properly. This function is Auto Start function of MHP, Italian data broadcast. Use in channel with MHP signal. Data broadcast function may not be smooth due to situation from the broadcasting station.	
IR Blaster (Depending on model)	Adjusts when connecting Wireless media box (sold seperate). For futher information, refer to the "Wireless media box" manual for operating inssturctions.	

NETWORK Settings



1 Press **Home** to access the Home menu.

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

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

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

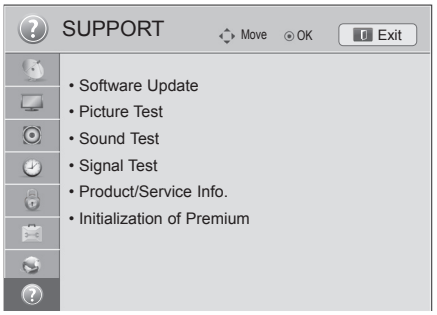
5 When you are finished, press **EXIT**.

The available network settings are described in the following:

Setting	Description	
Network Setting	Configure the network settings. (See p.46)	
Network Status	Display the network status. (See p.52)	
Smart TV Setting	Set the region for which weather forecast is provided and manage the IDs added to the TV.	
	Setting	
	Country Setting	Set the country for premium services. Different premium services are provided depending on the country you set.
	Weather Effect	Sets the region for the weather to be displayed on the background of the premium service. Select your region.
	Premium Version	Display the version of the premium service.
	ID Management	Manage the login history of the IDs added to the TV.
	Reset	Delete all IDs added on the TV.
Legal Notice	Display the Legal notice. (See p.54)	

ENGLISH

SUPPORT Settings



1 Press **Home** to access the Home menu.

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

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

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

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

The available support settings are described in the following:

Setting	Description
Software Update	Update the TV with the latest firmware.
Picture Test **Sound Test**	Executes picture or built-in melody sound tests. » If this test has an error, select Yes. You will see product or service information. » If this test has no errors, check the connection status of external devices and refer to the manual of external devices.
Signal Test	Shows the MUX and Service information etc. **NOTE** • This displays the information and signal strength of the tuned *MUX. • This displays the signal information and service name of the selected MUX.(*MUX: A higher directory of channels in digital broadcasting (a single MUX contains multiple channels.)) • If you select **Satellite** as the auto tuning input source, a signal test is not displayed. If you select **Antenna & Satellite** or **Cable & Satellite**, a signal test only for **Antenna** or **Cable** is displayed.
Product/Service Info.	Shows the product or service information. Customer Service Center can differ by country.
Initialization of Premium	Initialize the premium menu if an error occurs while updating the premium menu. Then, the TV automatically switches off and then back on.

MAKING CONNECTIONS

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

NOTE

- If you record a TV programme on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information on recording, refer to the manual provided with the connected device.
- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.

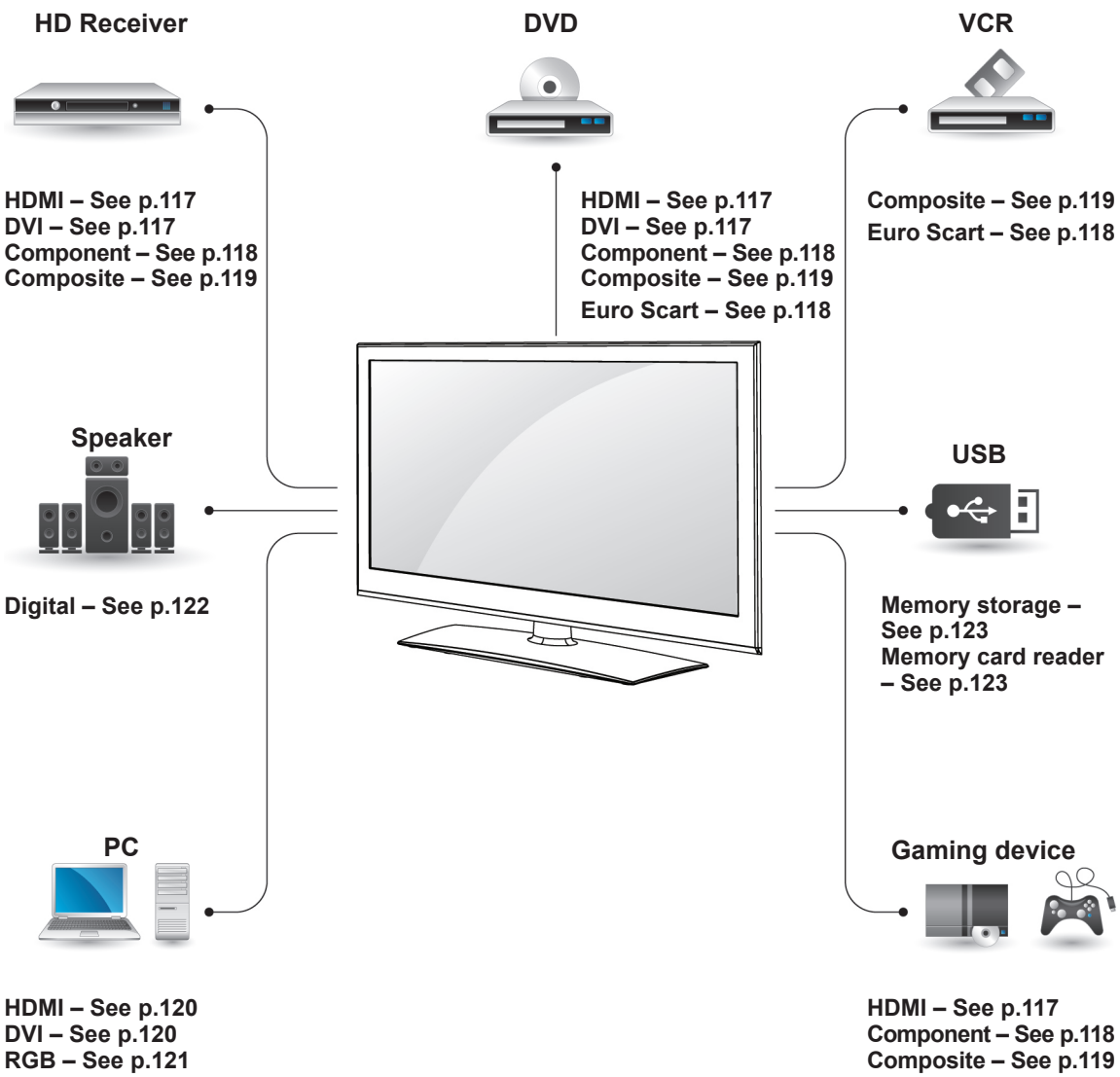
Connection Overview

Connect various external devices to the ports on the TV back panel.

1 Find an external device you want to connect to your TV as shown on the following illustration.

2 Check the connection type of the external device.

3 Go to the appropriate illustration and check the connection details.



NOTE

- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.

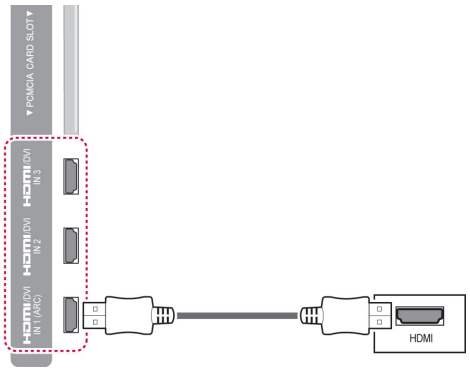
- This section on **MAKING CONNECTIONS** mainly uses diagrams for the 32/37/42/47LV37** models.
- Image shown may differ from your TV.

Connecting to a HD receiver, DVD, or VCR player

Connect a HD receiver, DVD, or VCR player to the TV and select an appropriate input mode.

HDMI Connection

Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown in the following illustration.

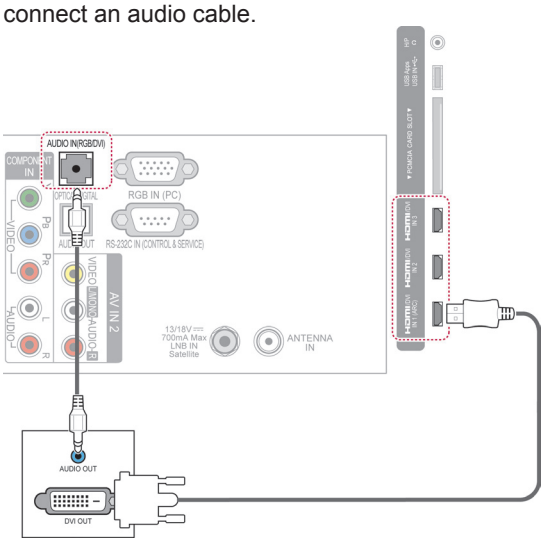


NOTE

- Use the latest High Speed HDMI™ Cable with CEC (Customer Electronics Control) function.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.

DVI to HDMI Connection

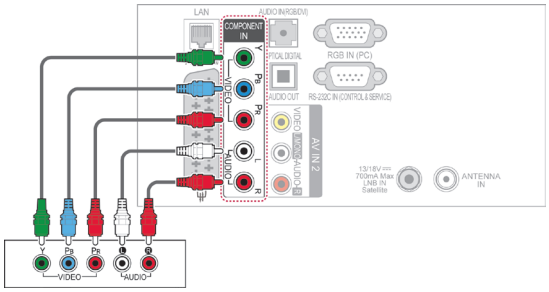
Transmits the digital video signal from an external device to the TV. Connect the external device and the TV with the DVI-HDMI cable as shown in the following illustration. To transmit an audio signal, connect an audio cable.



ENGLISH

Component Connection

Transmits the analogue video and audio signals from an external device to the TV. Connect the external device and the TV with the component cable as shown in the following illustration.

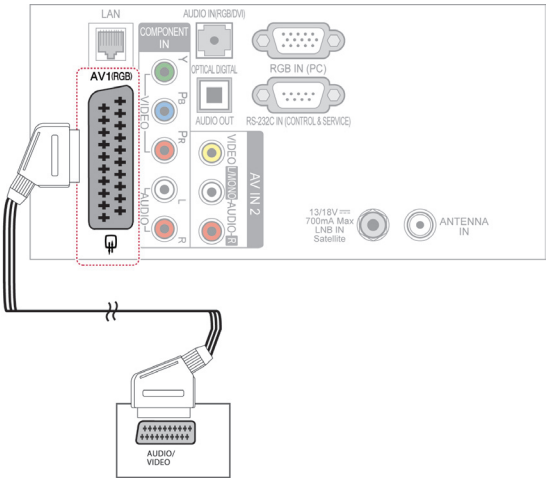


NOTE

- If cables are installed incorrectly, it could case the image to display in black and white or with distorted colour. Check to ensure the cable are matched with the corresponding colour connection.

Euro Scart Connection

Transmits the video and audio signals from an external device to the TV set. Connect the external device and the TV set with the Euro Scart cable as shown on the following illustration. To display images by using progressive scan, make sure to use the Euro Scart cable.



Output Type / Current input mode	AV1 (TV Out[1])	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	X	X

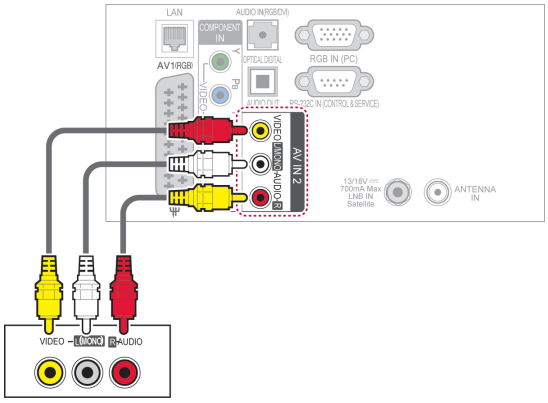
1 TV Out : Outputs Analogue TV or Digital TV signals.

NOTE

- Any Euro scart cable used must be signal shielded.
- When watching digital TV in 3D imaging mode, monitor out signals cannot be output through the SCART cable. (Only 3D models)
- If you set the 3D mode to On while a scheduled recording is performed on digital TV, monitor out signals cannot be output through the SCART cable, and the recording cannot be performed. (Only 3D models)

Composite Connection

Transmits the analogue video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown in the following illustration.



NOTE

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

Connecting to a PC

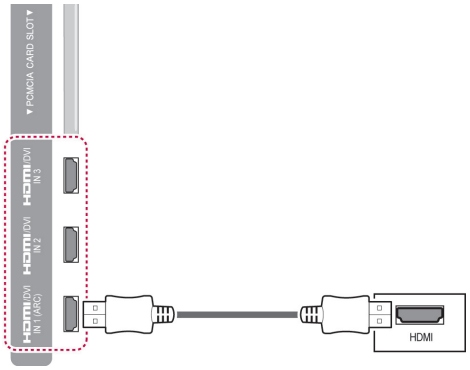
NOTE

- It is recommended to use the TV set with the HDMI connection for the best image quality.

ENGLISH

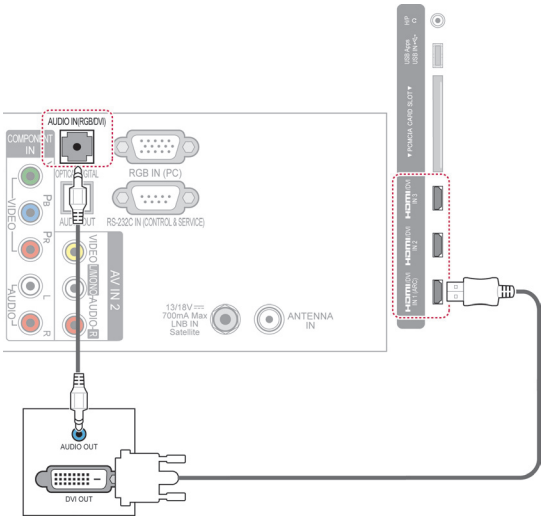
HDMI Connection

Transmits the digital video and audio signals from your PC to the TV. Connect the PC and the TV with the HDMI cable as shown in the following illustrations.



DVI to HDMI Connection

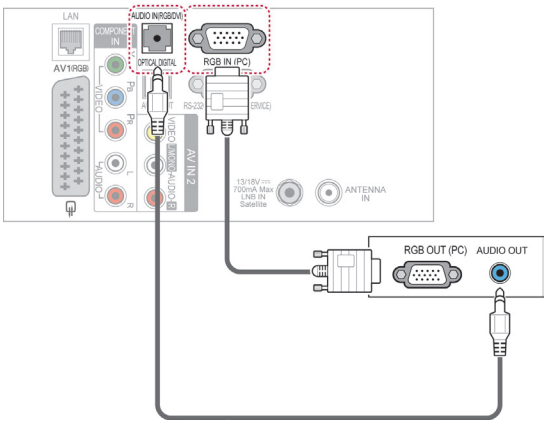
Transmits the digital video signal from your PC to the TV. Connect the PC and the TV with the DVI-HDMI cable as shown in the following illustration. To transmit an audio signal, connect an audio cable.



ENGLISH

RGB Connection

Transmits the analogue video signal from your PC to the TV. Connect the PC and the TV with the supplied D-sub 15 pin signal cable as shown in the following illustrations. To transmit an audio signal, connect an audio cable.



NOTE

- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- We recommend using 1920x1080, 60 Hz for the PC mode, this should provide the best picture quality.
- Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN (or HDMI/DVI IN) port on the TV.
- Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- If using a sound card, adjust PC sound as required.
- If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN (or HDMI/DVI IN) to display the PC output on the TV.
- DOS mode may not work depending on the video card if you use an HDMI to DVI cable.
- If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

Connecting to an Audio System

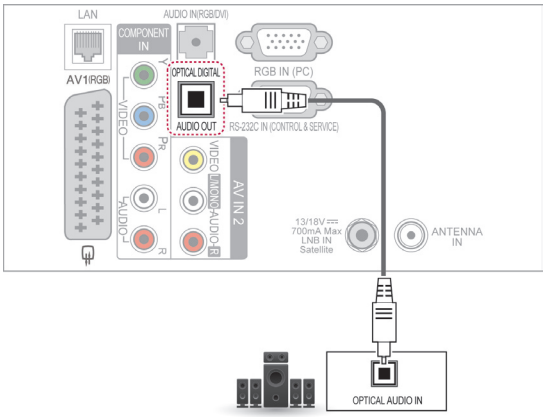
Use an external audio system instead of the built-in speaker.

NOTE

- If you use an external audio device instead of the built-in speaker, set the TV speaker feature to off. (See p.105)

Digital Optical Audio Connection

Transmits the digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown in the following illustration.



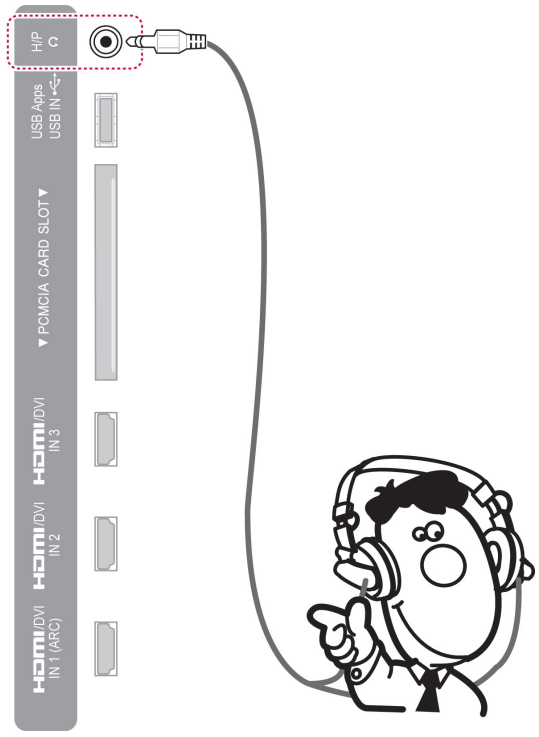
CAUTION

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

Connecting to Headphone Connection

(Depending on model)

Listen to the sound through a headphone.

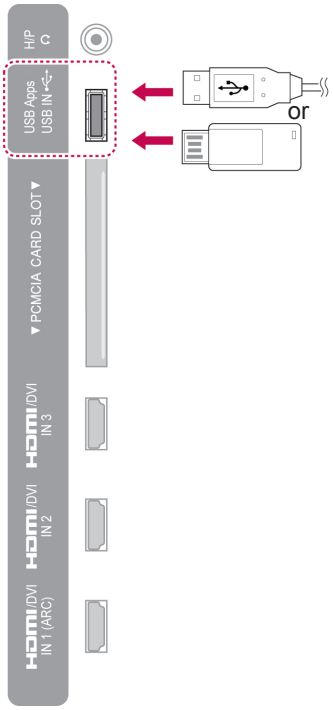


NOTE

- 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
- Headphone jack size: 0.35 cm

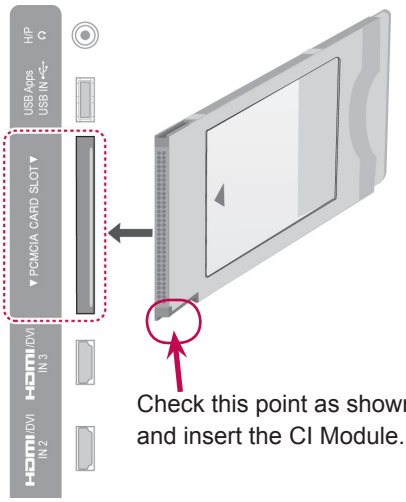
Connecting to a USB

Connect a USB storage device such as s USB flash memory, external hard drive or a USB memory card reader to the TV and access the Smart Share menu to use various multimedia files. See “Connecting USB storage devices” and see “Browsing files”.



Connecting to a CI Module

View the encrypted (pay) services in digital TV mode. This feature is not available in all countries. (See p.41).



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.

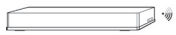
ENGLISH

Connecting the Wireless Media Box

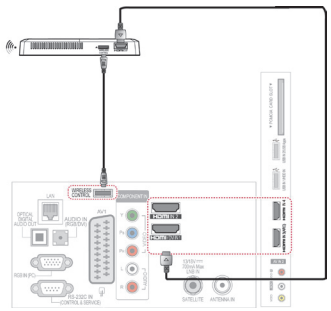
(Depending on model)

LG TVs with a Wireless Control port support the LG Wireless Media Box, which is sold separately. When you connect the Wireless Ready Dongle (included with the Wireless Media Box) to the TV, external devices can be connected to the LG Wireless Media Box and video and audio will be sent to the TV wirelessly.

Refer to the Wireless Media Box manual for operating instructions.



LG Wireless Media Box



NOTE

- When using the external device connected to the Wireless Media Box, some functions of the TV menu may not work.

SIMPLINK Connection

Play and control the AV device connected with the HDMI cable through HDMI-CEC. This TV may work with the devices that support HDMI-CEC, but only devices with the SIMPLINK logo are fully supported.

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

NOTE

- If the connected device does not support HDMI-CEC, the SIMPLINK feature is unavailable.
- To operate SIMPLINK, an High Speed HDMI Cable with *CEC function should be used. (*CEC: Consumer Electronics Control).
- SIMPLINK may not work properly if you a third-party device that has an HDMI-CEC function.
- In wireless external output, SIMPLINK function is not supported.

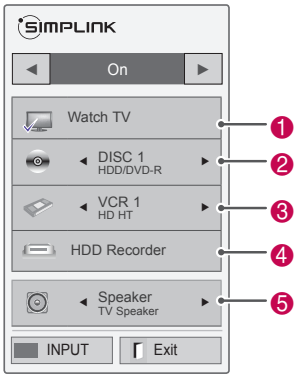
Activating and Using the SIMPLINK menus

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

2 Press Red button to access the SIMPLINK menus.

3 Press the Navigation buttons to select to **On**.

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



No.	Description
❶	Displays the previously viewed TV channel.
❷	Plays discs. When multiple discs are available, the title of the disc appears at the bottom of the screen.
❸	Controls the connected VCR.
❹	HDD recordings playback: Controls the recording stored in HDD.
❺	Audio out to home theatre speaker or Audio out to TV: Changes the audio output between Home theatre speaker and TV speaker.

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

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

NOTE

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

ENGLISH

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

Switch On/Off

Press the **TEXT** button to switch to teletext. The initial page or last page viewed appears on the screen.
Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.
Press the **TEXT** button to switch off teletext. The previous mode reappears.

Simple Text

Page selection

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

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

Top Text

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

Block / Group / Page Selection

1 With Blue button you can progress from block to block.

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

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

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

Direct Page Selection

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

Fastext

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

Page selection

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

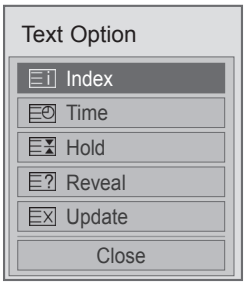
2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.

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

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

Special Teletext Function

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



Index

Select the each index page.

Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.
In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the Red button, Green button, < > or NUMBER buttons.

Hold

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

Reveal

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

Update

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

NOTE

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

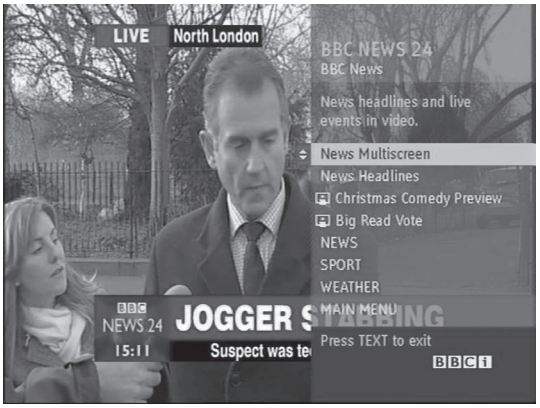
ENGLISH

DIGITAL TELETEXT

- This function works in UK, Ireland only.

The TV gives you access to digital teletext which is greatly improved in various aspects such as text, graphics etc.
This digital teletext can access special digital teletext services and specific services which broadcast digital teletext.

Teletext within digital service



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

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

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

Teletext in digital service



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

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

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

4 Press the **TEXT** or colour button to switch off digital teletext and return to TV viewing.

Some services may allow you to access text services by pressing Red button.

ENGLISH

MAINTENANCE

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

Updating the TV Firmware

Download and install the latest firmware by connecting to the firmware update server or broadcasting OTA service to enhance or change the product function, or add new features.
The firmware update may not work properly depending on the Internet environment or DTV signal strength. If so, you may obtain the latest firmware update from the authorized LG Electronics service center.

To check the current firmware version or update the firmware,

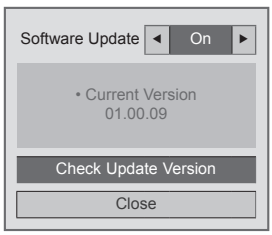
1 Press **Home** to access the Home menu.

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

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

4 Press the Navigation buttons to scroll to **Software Update** and press **OK**.
The current firmware version displays.

5 Select **Check Update Version** to check a new firmware version manually.



If selecting **Software Update** - **On**, the TV finds a new firmware through the NSU*/OTA* and the update pop-up window will appear on the screen.
* NSU (Network Software Update): If the TV is connected to the internet, the TV finds a new firmware uploaded on the LG server.
* OTA(Over The Air): If watching the digital broadcasting system, the TV is transmitted new firmware thorugh DTV signal.

NOTE

- While updating the firmware, do not disconnect the LAN cable, turn the TV off, or unplug the power cord.
- If you change the channel during the firmware update via OTA, the update stops. The process resumes when you go back to the original programme. The update continues even when the power is switched off using the remote control. In this case, it is normal that the colour of the power indicator may change and a dim light may be displayed on the screen. The system operates normally once the update is complete.
- Premium service is disabled while the software is being updated through NSU.
- You can check the software update status in the Software Update menu or from the update information displayed under the channel banner.
- Linkage update service (Only Nordic models) : You can check whether LG OTA service is available in the DTV channel by pressing this button on the Magic Motion remote control or the red button as you see the "Update is detected." message under the channel banner.

6 When the update is complete, the TV will automatically restart in 5 seconds.
You may need to reset some **SETUP**, **PICTURE**, or **AUDIO** menus.

NOTE

- You cannot downgrade back to an older firmware version.
- The period of time for the firmware update may be different depending on the firmware size, network condition or DTV signal strength.
- If the firmware update download fails when using wireless, temporarily connect a cable directly to your router. If it still does not download, contact customer service.

ENGLISH

Cleaning Your TV

CAUTION

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

Screen and frame

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

CAUTION

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

Cabinet and stand

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

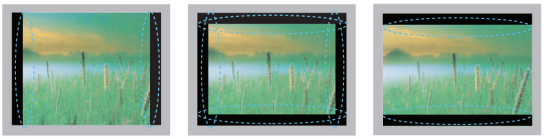
CAUTION

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

Power cord

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

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



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

TROUBLESHOOTING

General

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

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Audio

Problem	Resolution
No sound is produced while images are displaying.	• Press ◿ + or - button. • Check if the sound is muted by pressing **MUTE**. • Scroll to other channels. There may a problem with the broadcast. • Check if the audio cables are connected properly. • Check if the TV Speaker feature is activated in the menu option.
No output from one of the speakers	• Adjust Balance in the menu option.
Unusual sound from inside the TV is produced.	• A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. There is no problem with your product.

Video

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

SPECIFICATIONS

MODELS		32LV37**	37LV37**
		32LV3700-ZA / 32LV3700-ZC 32LV370S-ZB / 32LV3701-ZC 32LV3750-ZA / 32LV3750-ZC 32LV375G-ZC / 32LV375S-ZB 32LV375S-ZC / 32LV375T-ZA 32LV375T-ZC / 32LV375W-ZC	37LV3700-ZA / 37LV3700-ZC 37LV370S-ZB / 37LV3701-ZC 37LV3750-ZA / 37LV3750-ZC 37LV375G-ZC / 37LV375S-ZB 37LV375S-ZC / 37LV375T-ZA 37LV375T-ZC / 37LV375W-ZC
Dimensions (W x H x D)	With stand	764.0 mm x 545.0 mm x 240.0 mm	888.0 mm x 614.0 mm x 240.0 mm
	Without stand	764.0 mm x 484.0 mm x 35.4 mm	888.0 mm x 553.0 mm x 35.4 mm
Weight	With stand	11.4 kg	13.1 kg
	Without stand	9.6 kg	11.3 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		80 W	100 W
MODELS		42LV37**	47LV37**
		42LV3700-ZA / 42LV3700-ZC 42LV370S-ZB / 42LV3701-ZC 42LV3750-ZA / 42LV3750-ZC 42LV375G-ZC / 42LV375S-ZB 42LV375S-ZC / 42LV375T-ZA 42LV375T-ZC / 42LV375W-ZC	47LV3700-ZA / 47LV3700-ZC 47LV370S-ZB / 47LV3701-ZC 47LV3750-ZA / 47LV3750-ZC 47LV375G-ZC / 47LV375S-ZB 47LV375S-ZC / 47LV375T-ZA 47LV375T-ZC / 47LV375W-ZC
Dimensions (W x H x D)	With stand	998.0 mm x 684.0 mm x 256.0 mm	1108.0 mm x 746.0 mm x 256.0 mm
	Without stand	998.0 mm x 615.0 mm x 30.4 mm	1108.0 mm x 677.0 mm x 30.4 mm
Weight	With stand	15.5 kg	20.9 kg
	Without stand	13.3 kg	18.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		110 W	140 W

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

MODELS		32LV47**	37LV47**
		32LV470S-ZC	37LV470S-ZC
Dimensions (W x H x D)	With stand	772.0 mm x 549.0 mm x 240.0 mm	893.0 mm x 618.0 mm x 240.0 mm
	Without stand	772.0 mm x 490.0 mm x 34.9 mm	893.0 mm x 558.0 mm x 34.9 mm
Weight	With stand	10.9 kg	12.4 kg
	Without stand	9.1 kg	10.6 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		100 W	110 W
MODELS		42LV47**	47LV47**
		42LV470S-ZC	47LV470S-ZC
Dimensions (W x H x D)	With stand	1005.0 mm x 688.0 mm x 256.0 mm	1115.0 mm x 750.0 mm x 256.0 mm
	Without stand	1005.0 mm x 621.0 mm x 29.9 mm	1115.0 mm x 683.0 mm x 29.9 mm
Weight	With stand	15.2 kg	20.7 kg
	Without stand	13.0 kg	18.5 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		130 W	140 W

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

MODELS		32LW47**	42LW47**
		32LW470S-ZB	42LW470S-ZB
Dimensions (W x H x D)	With stand	772.0 mm x 551.0 mm x 240.0 mm	1005.0 mm x 686.0 mm x 255.0 mm
	Without stand	772.0 mm x 490.0 mm x 34.9 mm	1005.0 mm x 621.0 mm x 29.9 mm
Weight	With stand	10.5 kg	15.9 kg
	Without stand	8.2 kg	13.0 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		100 W	130 W
MODELS		47LW47**	55LW47**
		47LW470S-ZB	55LW470S-ZB
Dimensions (W x H x D)	With stand	1115.0 mm x 748.0 mm x 255.0 mm	1293.0 mm x 851.0 mm x 341.0 mm
	Without stand	1115.0 mm x 683.0 mm x 29.9 mm	1293.0 mm x 785.0 mm x 29.9 mm
Weight	With stand	21.4 kg	27.0 kg
	Without stand	18.5 kg	22.0 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power consumption		140 W	160 W

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

MODELS		47LK95** 47LK950S-ZA
Dimensions (W x H x D)	With stand	1137.0 mm x 758.0 mm x 270.0 mm
	Without stand	1137.0 mm x 685.0 mm x 76.8 mm
Weight	With stand	20.3 kg
	Without stand	18.3 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz
Power consumption		250 W

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

MODELS		50PZ57**	60PZ57**
		50PZ570-ZB / 50PZ570G-ZB 50PZ570S-ZB / 50PZ570T-ZB 50PZ570W-ZB / 50PZ575S-ZB	60PZ570-ZB / 60PZ570G-ZB 60PZ570S-ZB / 60PZ570T-ZB 60PZ570W-ZB / 60PZ575S-ZB
Dimensions (W x H x D)	With stand	1172.3 mm x 770.9 mm x 289.8 mm	1391.1 mm x 905.2 mm x 334.7 mm
	Without stand	1172.3 mm x 712.2 mm x 52.5 mm	1391.1 mm x 835.5 mm x 52.5 mm
Weight	With stand	29.8 kg	42.6 kg
	Without stand	27.5 kg	38.5 kg

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		50PZ75**	60PZ75**
		50PZ750-ZA / 50PZ750G-ZA 50PZ750S-ZA / 50PZ750T-ZA 50PZ750W-ZA / 50PZ755S-ZA	60PZ750-ZA / 60PZ750G-ZA 60PZ750S-ZA / 60PZ750T-ZA 60PZ750W-ZA / 60PZ755S-ZA
Dimensions (W x H x D)	With stand	1185.2 mm x 782.6 mm x 317.2 mm	1404.0 mm x 911.4 mm x 364.4 mm
	Without stand	1185.2 mm x 714.0 mm x 49.6 mm	1404.0 mm x 837.8 mm x 49.6 mm
Weight	With stand	31.5 kg	46.3 kg
	Without stand	27.9 kg	40.3 kg

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		50PZ95**	60PZ95**
		50PZ950-ZA / 50PZ950G-ZA 50PZ950S-ZA / 50PZ950T-ZA 50PZ950W-ZA / 50PZ955S-ZA	60PZ950-ZA / 60PZ950G-ZA 60PZ950S-ZA / 60PZ950T-ZA 60PZ950W-ZA / 60PZ955S-ZA
Dimensions (W x H x D)	With stand	1175.2 mm x 787.6 mm x 317.2 mm	1393.4 mm x 916.4 mm x 364.4 mm
	Without stand	1175.2 mm x 720.6 mm x 49.6 mm	1393.4 mm x 843.8 mm x 49.6 mm
Weight	With stand	32.5 kg	46.3 kg
	Without stand	28.9 kg	40.3 kg

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

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CI Module Size (W x H x D)		100.0 mm x 55.0 mm x 5.0 mm
Environment condition	Operating Temperature	0 °C to 40 °C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	Less than 85 %

	Satellite Digital TV[1]	Digital TV[2]	Digital TV	Analogue TV
Television System	DVB-T DVB-C DVB-S/S2	DVB-T/T2 DVB-C	DVB-T DVB-C	PAL/SECAM B/G/D/K, PAL I/II, SECAM L/L'[3]
Programme Coverage	VHF, UHF C-Band, Ku-Band	VHF, UHF		VHF: E2 to E12, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47
Maximum number of storable programmes	6,000	1,200		
External Antenna Impedance	75 Ω			

1 Only satellite models
2 Only DVB-T2 support models
3 Except for DVB-T2 support models

RGB-PC, HDMI/DVI-PC supported mode

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

HDMI/DVI-DTV supported mode

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

Component port connecting information

Component ports on the TV	Y	P_B	P_R

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

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

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Supported DivX file

File Extensions	Audio/ Video	Codec	Profile/Level Support	Explanation
.asf .wmv	Video	VC-1 Advanced Profile	Advanced Profile@Level 3 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		VC-1 Simple and Main Profiles	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30)	
	Audio	WMA Standard		
		WMA 9 Professional		
.divx .avi	Video	DivX3.11		Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		DivX4 DivX5 DivX6	Advanced Simple Profile (e.g. 720p/1080i)	
		XViD		
		H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	
	Audio	MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital		
.mp4 .m4v .mov	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		MPEG-4 Part 2	Advanced Simple Profile (e.g. 720p/1080i)	
	Audio	MP3		
.mkv	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Most of the MKV content available is encoded by the open source x264 codec.
	Audio	MP3		
		Dolby Digital		
.ts .trp .tp	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	
		MPEG-2	Main Profile@High Level (e.g. 720p60, 1080i60)	
		VC-1	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30) Advanced Profile@Level3 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
	Audio	MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital Dolby Digital Plus		
		MP3		
.vob	Video	MPEG-1		
		MPEG-2	Main Profile@High Level (e.g. 720p60, 1080i60)	
	Audio	Dolby Digital MPEG-1 Layer I, II DVD-LPCM		
.mpg	Video	MPEG-1	Main Profile@High Level (e.g. 720p60, 1080i60)	Only streams compliant configured properly for TS, PS or ES
	Audio	MPEG-1 Layer I, II		

3D supported mode

Input	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI	720p	1280X720	45	60	Side by Side Top & Bottom HDMI 3D Top & Bottom
			89.9/90	59.94/60	HDMI 3D Frame Packing (Only LED LCD TV / LCD TV)
			90	60	HDMI 3D Frame Packing (Only Plasma TV)
			37.5	50	Side by Side Top & Bottom HDMI 3D Top & Bottom
			75		HDMI 3D Frame Packing
	1080i	1920X1080	33.75	60	Side by Side Top & Bottom HDMI 3D Side by Side(Half)
			28.125	50	
	1080p	1920X1080	67.50	60	Side by Side Top & Bottom Checker Board Single Frame Sequential
			56.250	50	Side by Side Top & Bottom Checker Board Single Frame Sequential
			27	24	Side by Side Top & Bottom Checker Board HDMI 3D Top & Bottom
			54	24	HDMI 3D Frame Packing (Only Plasma TV)
			33.75	30	Side by Side Top & Bottom Checker Board
			53.95/54	23.98/24	HDMI 3D Frame Packing (Only LED LCD TV / LCD TV)
			67.50	30	
RGB	1080p	1920X1080	66.587	59.934	Side by Side Top & Bottom
Component (Only Plasma TV)	720p	1280X720	37.5	50	Side by Side Top & Bottom
			45	60	
	1080i	1920X1080	28.125 33.75	50 60	
USB	1080p	1920X1080	33.75	30	Side by Side Top & Bottom Checker Board MPO(Photo)
DLNA	1080p	1920X1080	33.75	30	Side by Side Top & Bottom Checker Board
	Signal				Playable 3D video format
DTV	720p, 1080i				Side by Side Top & Bottom

(Only 32/42/47/55LW47**, 47LK95**)

- Media contents and a player need to support HDMI 3D Frame Packing, HDMI 3D Side by Side, HDMI 3D Top & Bottom to play in 3D.
- Video, which is input as HDMI 3D Frame Packing, HDMI 3D Side by Side, HDMI 3D Top & Bottom format, is switched into the 3D screen automatically.

(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)

- Media contents and a player need to support HDMI 3D Frame Packing, HDMI 3D Side by Side, HDMI 3D Top & Bottom to play in 3D.
- Video, which is input as HDMI 3D Frame Packing format, is switched into the 3D screen automatically.
- 2D->3D mode is available to watch for all signals.

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RF module(BM-LDS201) specification

(Only 50/60PZ57**, 50/60PZ75**, 50/60PZ95**)

For TV by using a 2.4 GHz bandwidth radio frequency (RF).

- Output: 1 dBm or lower
- Maximum Communication Distance: 10 m in an open space
- Bandwidth: 2.4 GHz (2.4035 GHz to 2.4783 GHz)
- Transfer Rate: 250 kbps

- FCC ID of RF module inside TV
  FCC ID : BEJLDS201

CE

IR CODES

(Depending on model)

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
08	POWER	Remote control Button (Power On/Off)	44	OK	Remote control Button
95	ENERGY SAVING	Remote control Button	28	BACK	Remote control Button
30	AV MODE	Remote control Button	AB	GUIDE	Remote control Button
0B	INPUT	Remote control Button	5B	EXIT	Remote control Button
F0	TV/RAD	Remote control Button	72	RED	Remote control Button
10-19	Alphanumeric buttons 0-9	Remote control Button	71	GREEN	Remote control Button
53	LIST	Remote control Button	63	YELLOW	Remote control Button
1A	Q.VIEW	Remote control Button	61	BLUE	Remote control Button
02	VOL +	Remote control Button	20	TEXT	Remote control Button
03	VOL -	Remote control Button	21	T.OPT(T.Option)	Remote control Button
1E	FAV/MARK/ CHAR/NUM	Remote control Button	39	SUBTITLE	Remote control Button
DC	3D	Remote control Button	B1	■ / LIVE TV	Remote control Button
09	MUTE/DELETE	Remote control Button	B0	▶	Remote control Button
00	P∧	Remote control Button	BA	⏸ (FREEZE)	Remote control Button
01	P ∨	Remote control Button	8E	▶▶	Remote control Button
59	Premium	Remote control Button	8F	◀◀	Remote control Button
43	Home	Remote control Button	7E	SIMPLINK	Remote control Button
45	Q.MENU	Remote control Button	79	RATIO	Remote control Button
58	@	Remote control Button	BD	REC	Remote control Button
40	∧	Remote control Button	91	AD	Remote control Button
41	∨	Remote control Button	AA	INFO	Remote control Button
07	<	Remote control Button	9F	APP/*	Remote control Button
06	>	Remote control Button			

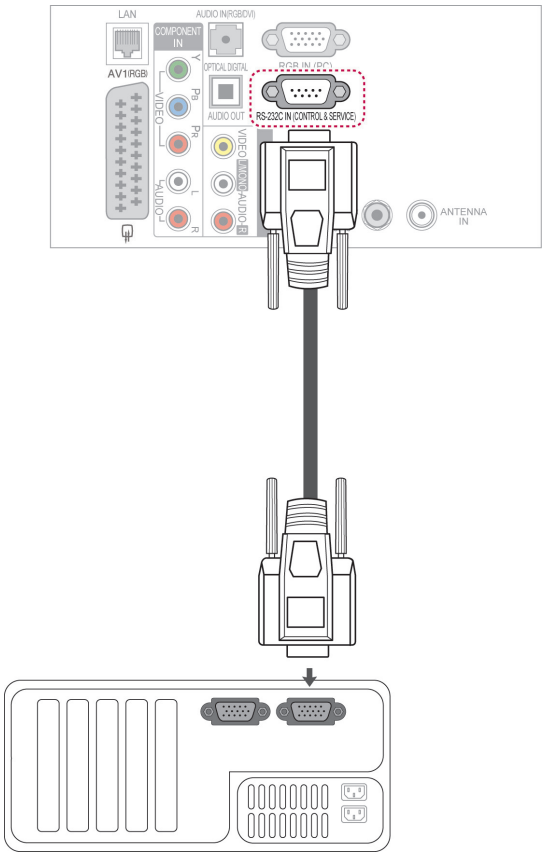
EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

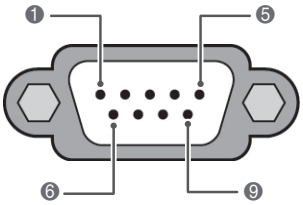
Connect the RS-232C (serial port) input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.
Connect the serial port of the control device to the RS-232C jack on the product back panel.

NOTE

- RS-232C on this TV is intended to be used with third party RS-232C control hardware and software. The instructions below are provided to help with programming software or to test functionality using telenet software.
- RS-232C connection cables are not supplied with the product.



Type of connector; D-Sub 9-Pin Male



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

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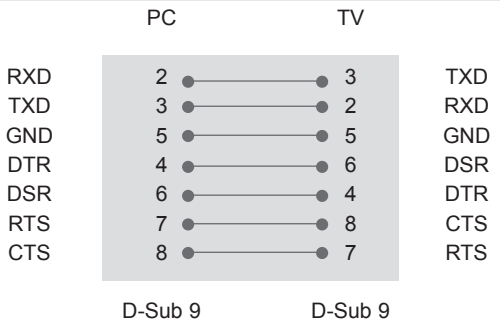
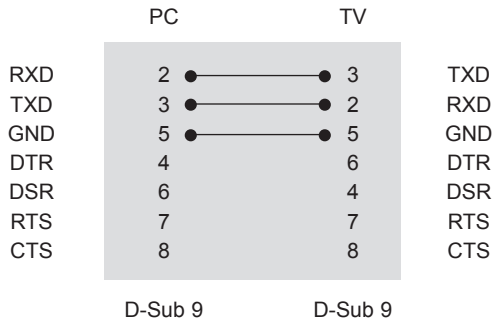
RS-232C Configurations

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



3-Wire Configurations(Not standard)



Set ID

Set ID number. "**Real Data Mapping**". (See p.153)

1 Press **Home** to access the Home menu.

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

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

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

5 Scroll left or right to select a set ID number and select **Close**. The adjustment range is 1 to 99.

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

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Communication Parameters

- Baud rate: 9600 bps (UART)
- Data length: 8 bits
- Parity : None
- Stop bit: 1 bit
- Communication code: ASCII code
- Use a crossed (reverse) cable.

Command reference list

	COMMAND1	COMMAND2	DATA (Hexadeci-mal)		COMMAND1	COMMAND2	DATA (Hexadeci-mal)
01. Power	k	a	00 to 01	14. Bass	k	s	00 to 64
02. Aspect Ratio	k	c	(See p.150)	15. Balance	k	t	00 to 64
03. Screen Mute	k	d	(See p.150)	16. Colour Temperature	x	u	00 to 64
04. Volume Mute	k	e	00 to 01	17.ISM Method	j	p	(See p.152)
05. Volume Control	k	f	00 to 64	18. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	19. Auto Con-figuration	j	u	01
07. Brightness	k	h	00 to 64	20. Tune Com-mand	m	a	(See p.152)
08. Colour	k	i	00 to 64	21. Programme Add/Skip	m	b	00 to 01
09. Tint	k	j	00 to 64	22. Key	m	c	Key Code
10. Sharpness	k	k	00 to 64	23. Control Back Light	m	g	00 to 64
11. OSD Select	k	l	00 to 01	24. Input select (Main)	x	b	(See p.153)
12. Remote Control Lock Mode	k	m	00 to 01	25. 3D	x	t	(See p.154)
13. Treble	k	r	00 to 64	26. Extended 3D	x	v	(See p.154)

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

Transmission / Receiving Protocol

Transmission

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

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

OK Acknowledgement

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

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

Error Acknowledgement

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

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

Data 00: Illegal Code

01. Power (Command: k a)

► To control Power On/Off of the set.

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

Data 00 : Power Off 01 : Power On

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

► To show Power On/Off.

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

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

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

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

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

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

Data 01 : Normal screen (4:3) 09 : Just Scan
02 : Wide screen (16:9) 0B : Full Wide
06 : Original 10 to 1F : Cinema Zoom 1 to 16
07 : 14:9

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

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

03. Screen Mute (Command: k d)

► To select screen mute on/off.

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

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

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

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

04. Volume Mute (Command: k e)

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

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

Data 00 : Volume mute on (Volume off)
01 : Volume mute off (Volume on)

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

05. Volume Control (Command: k f)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

06. Contrast (Command: k g)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

07. Brightness (Command: k h)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

08. Colour (Command: k i)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

09. Tint (Command: k j)

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

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

Data Red : 00 to Green : 64
* Refer to 'Real data mapping'. (See p.153)

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

10. Sharpness (Command: k k)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

11. OSD Select (Command: k l)

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

Transmission [k][l][ ][Set ID][ ][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack [l][ ][Set ID][ ][OK/NG][Data][x]

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

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

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

Data 00 : Lock off 01 : Lock on

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

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

13. Treble (Command: k r)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

14. Bass (Command: k s)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

15. Balance (Command: k t)

► To adjust balance.
You can also adjust balance in the AUDIO menu.

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

16. Colour Temperature (Command: x u)

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

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. (See p.153)

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

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17. ISM Method (Command: j p) (Plasma TV only)

► To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission [j][p][ ][Set ID][ ][Data][Cr]

Data 02: Orbiter
04: White wash
08: Normal
20: Colour Wash

Ack [p][ ][Set ID][ ][OK/NG][Data][x]

18. Energy Saving (Command: j q)

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

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

Power Saving Function					Level				Description
7	6	5	4		3	2	1	0	
0	0	0	0	Low Power	0	0	0	0	Off
0	0	0	0	Low Power	0	0	0	1	Minimum
0	0	0	0	Low Power	0	0	1	0	Medium
0	0	0	0	Low Power	0	0	1	1	Maximum
0	0	0	0	Low Power	0	1	0	0	Auto (Only LED LCD TV / LCD TV)
0	0	0	0	Low Power	0	1	0	1	Screen Off
0	0	0	0	Low Power	0	1	0	0	Intelligent Sensor (Only Plasma TV)

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

19. Auto Configure(Command: j u)

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

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

Data 01: To set

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

20. Tune Command (Command: m a)

► Select channel to following physical number.

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

Data00 : High channel data
Data01 : Low channel data
ex. No. 47 -> 00 2F (2FH)
No. 394 -> 01 8A (18AH),
DTV No. 0 -> Don't care
Data02 :

0x00	ATV main
0x10	DTV main
0x20	Radio main
0x80	CATV main
0x90	CADTV main
0xa0	CA-Radio main
0x40	Sat DTV main
0x50	Sat Radio main

Channel data range
Analogue - Min: 00 to Max: C7 (0 to 199)
Digital - Min: 00 to Max: 270F (0 to 9999)

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

Data Min: 00 to Max: 7DH

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

► To set skip status for the current Programme.

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

Data 00 : Skip 01 : Add

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

*** Real data mapping**

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

22. Key(Command: m c)

► To send IR remote key code.

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

Data Key code (See p.145)

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

23. Control Back Light(Command: m g)

(Only LED LCD TV / LCD TV)

► To Control the back light.

Transmission [m][g][ ][Set ID][ ][Data][Cr]

Data Min : 00 to Max : 64

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

24. Input select (Command: x b)

(Main Picture Input)

► To select input source for main picture.

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

Data

Data	Input
0x00	DTV
0x01	CADTV
0x02	Sat DTV
0x10	ATV
0x11	CATV
0x20	AV1
0x21	AV2
0x22	AV3
0x40	Component1
0x41	Component2
0x42	Component3
0x60	RGB
0x70/80/90/a0	HDMI1
0x71/81/91/a1	HDMI2
0x72/82/92/a2	HDMI3
0x73/83/93/a3	HDMI4

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

* In case external input data is DTV, Input number '0' is AIR, '1' is CATV and '2' is SATELLITE.

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25. 3D (Command: x t) (only 3D models)

► To change 3D mode for TV.

Transmission [x][t][ ][Set ID][ ][Data01][ ][Data02][ ][Data03][ ][Data04][Cr]

Data01 00 : 3D On
01 : 3D Off
02 : 3D to 2D
03 : 2D to 3D
Data02 00 : Top and Bottom
01 : Side by Side
02 : Check Board
03 : Frame Sequential
Data03 00 : Right to Left
01 : Left to Right
Data04 3D Depth : Min: 0 to Max: 14
*Refer to 'Real data mapping'. (See p.153)
*If data1 is 00(3D On), data4 has no meaning.
*If data1 is 01(3D off) or 02(3D to 2D), data2, data3 and data4 have no meaning.
*If data1 is 03(2D to 3D), data2 and data3 have no meaning.

Data1	Data2	Data3	Data4
00	O	O	X
01	X	X	X
02	X	X	X
03	X	X	O

X : don't care

Ack [t][ ][OK][Data01][Data02][Data03][Data04][x]
[t][ ][NG][Data01][x]

26. Extended 3D (Command: x v) (only 3D models)

► To change 3D option for TV.

Transmission [x][v][ ][Set ID][ ][Data01][ ][Data02][Cr]

Data01 : 3D option
00 : 3D Picture Correction
01 : 3D Depth (2D to 3D Only)
02 : 3D Viewpoint
03 : 3D Picture Size (Only Plasma TV)
04 : 3D Picture Balance (Only Plasma TV)
05 : 3D Optimization (Only LED LCD TV / LCD TV)
Data02 It has own range for each 3D option determined by Data01.
1) When Data01 is 00
00 : Right to Left
01 : Left to Right
2) When Data01 is 01
Data Min: 0 to Max: 14
3) When Data01 is 02
Data Min: 0 to Max: 14
Data value range(0 to 20) converts Viewpoint range(-10 to 10) automatically.
4) When Data01 is 03 (Only Plasma TV)
00 : Just Scan
01 : 16:9
5) When Data01 is 04 (Only Plasma TV)
00 : Off
01 : On
6) When Data01 is 05 (Only LED LCD TV / LCD TV)
Data Min: 0 to Max: 02
*Refer to 'Real data mapping'. (See p.153)

Ack [v][ ][OK][Data01][Data02][x][v][ ][NG][Data01][x]

* Use the feature depending on your model.

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- lua interpreter

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