



LG

Life's Good

OWNER'S MANUAL

LCD TV / LED LCD TV / PLASMA TV

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

LICENSES

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



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

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

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

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"Covered by one or more of the following U.S. patents :
7,295,673; 7,460,668; 7,515,710; 7,519,274"

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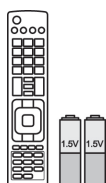
117 OPEN SOURCE LICENSE

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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)



Owner's Manual



Polishing cloth¹ (This item is not included for all models.)



Ferrite core
(Depending on model)



Power cord (This item is not included for all models.)

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

Only 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**



M4 x 26 M5 x 14.5

(Except for 60PV25**,
60PZ25**, 60PZ55**)



M4 x 28 M5 x 24

(Only 60PV25**,
60PZ25**, 60PZ55**)

Screw for assembly



Cable holder



Power cord holder



Protection cover



3D glasses
(AG-S250 : Depending
on model)



Protection cover
tape

Only 22LK33**



Cable holder



Protection cover

Only 19/22/26LV25**, 22/26LV55**, 19/22LV23**



x 2



x 2

(M4x6)
(Except for 19/22LV23**)(M4x16)
(Except for 19/22LV23**)

x 4

M4 x 14
(Only 19/22LV23**)

Screw for assembly



or



Cable holder



DC Adapter

Only 26/32LK33**, 32/37/42LK43**, 32/42/47LK53**, 32/37/42LK45**, 32/42LK55**, 47LK95**, 32/37/42LK46**



x 8

(M4x20)

Screw for assembly

(Except for 47LK53**,
47LK95**)

Screw for fixing



Protection cover

(Only 47LK95**)
FPR 3D glasses¹

Only 32LV25**, 32/37/40/42/47LV35**, 32/42/47/55LV45**, 32/37/42/47LV45**, 32/42LV34**, 42/47LV54**, 32/37/42/47LV36**



x 8

(M4x12)

(Except for 32LV25**)



x 8

(M4x14)

(Only 32LV25**)

Screw for assembly

(Only 32LV25**,
32/37LV35**, 32LV45**,
32/37LV45**, 32LV34**,
32/37LV36**)

Screw for fixing

(Only 32/
42/47/55LV45**,
42/47LV54**)
FPR 3D glasses¹¹ The number of 3D glasses may differ depending on the country.

**CAUTION**

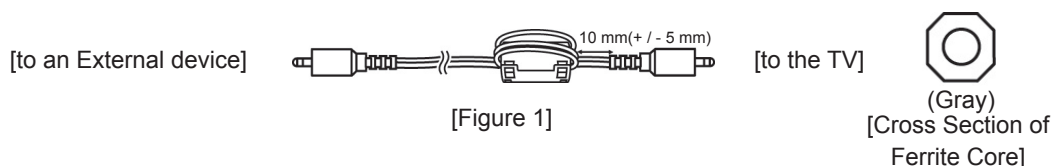
- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.

**NOTE**

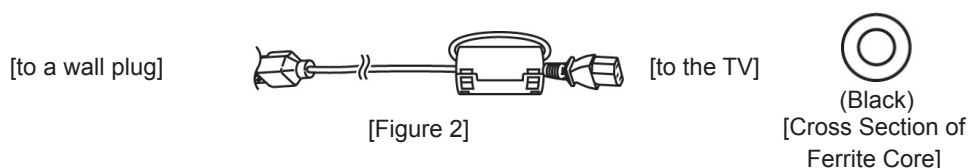
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.

How to use the ferrite core(Only Plasma TV)

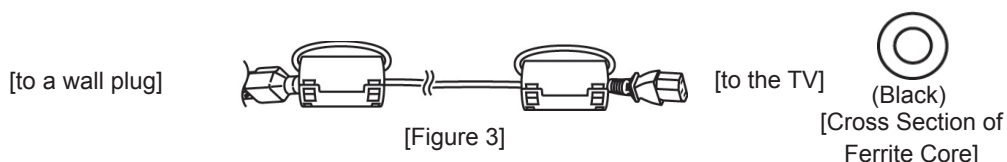
- 1 Use the ferrite core to reduce the electromagnetic interference in the PC audio cable.
Wind the PC audio cable on the ferrite core three times. Place the ferrite core close to the TV.



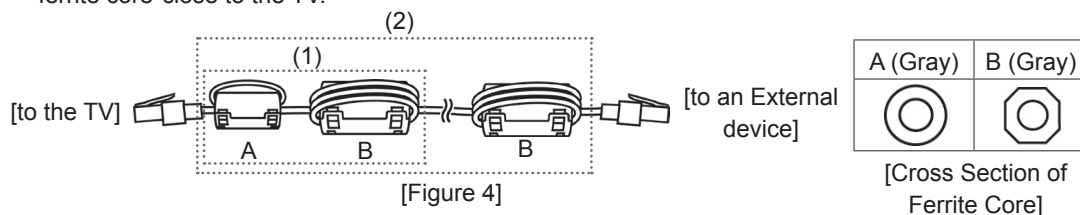
- 2 Use the ferrite core to reduce the electromagnetic interference in the power cable.
Wind the power cable on the ferrite core once. Place the ferrite core close to the TV.



- 3 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.

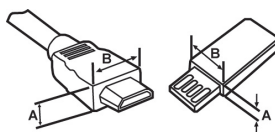


- 4 Use the ferrite core to reduce the electromagnetic interference in the LAN cable. Wind the LAN cable once on the small ferrite core and three times on the big ferrite core. Place the ferrite core close to the TV.



- If there is one ferrite core, follow as shown in Figure 1.
- If there are two ferrite cores, follow as shown in Figures 1 and 2.
- If there are three ferrite cores, follow as shown in Figures 1 and 3.
- If there are four ferrite cores, follow as shown in Figures 1, 2 and 4(1).
- If there are five ferrite cores, follow as shown in Figures 1, 3 and 4(1).
- If there are six ferrite cores, follow as shown in Figures 1, 3 and 4(2).

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. (Except for 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 22/26/32LK33**, 32/37/42LK43**, 32/42/47LK53**, 47LK95**, 42/50PT45**)



*A  10 mm
*B  18 mm

Separate purchase

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

This device only works with compatible LG Plasma TV, LED LCD TV or LCD TV.

Only Plasma TV	Only LCD / LED LCD TV
	
3D glasses (AG-S230, AG-S250, AG-S270 : Only 3D Models)	FPR 3D glasses ¹ (AG-F2** : Only 3D Models)

¹ The model name or design of 3D glasses may be changed without prior notice due to upgrade of product functions.

Parts and buttons



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.

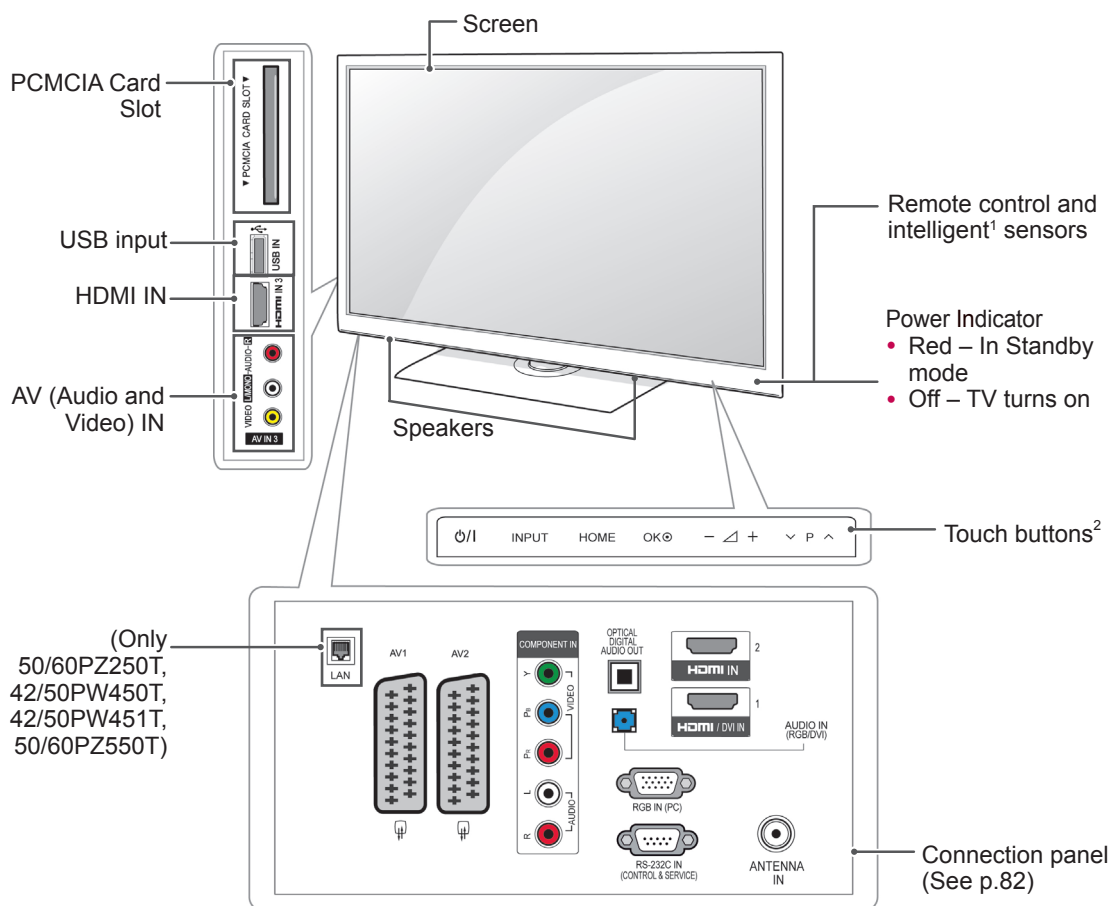


CAUTION

- 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.

- Image shown may differ from your TV.

Only 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**



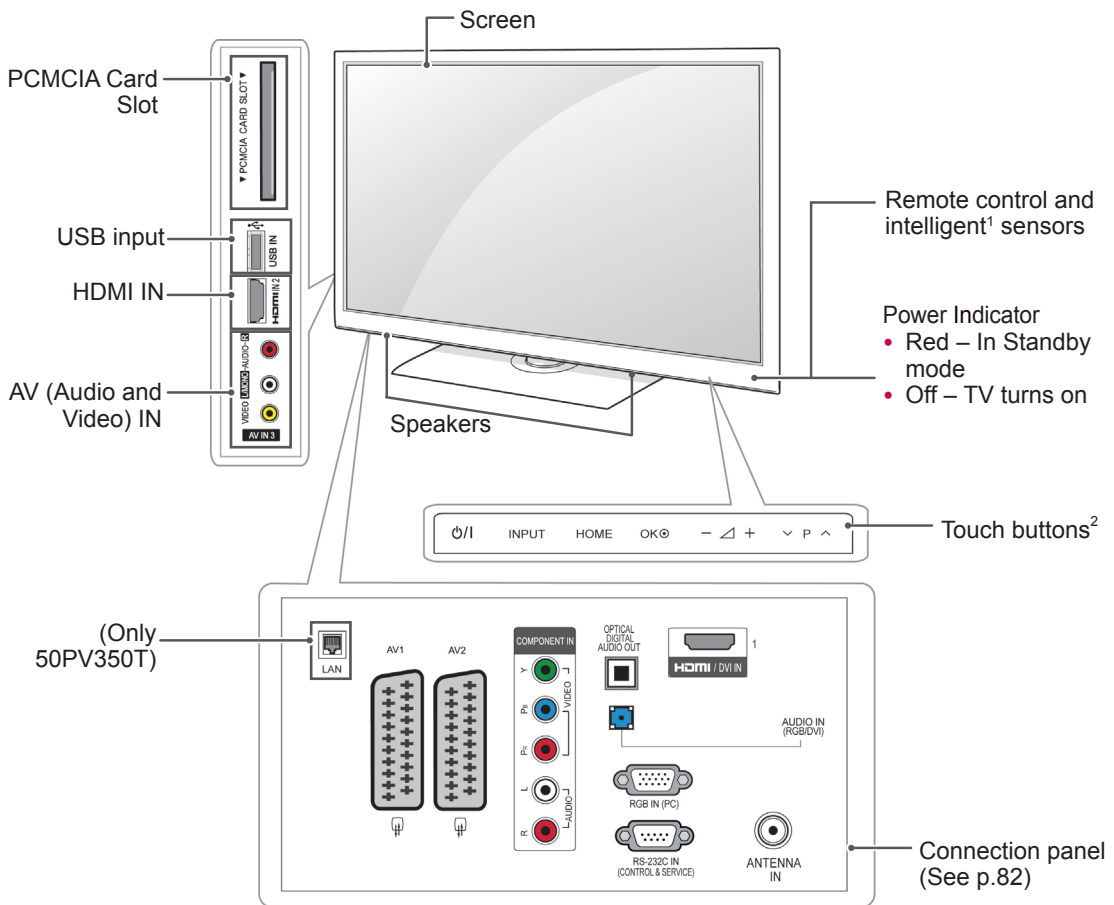
Button	Description
⏻/⏻	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK	Selects the highlighted menu option or confirms an input
– ∇ +	Adjusts the volume level
∇ P ∇	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.

2 Touch Button - You can use the desired button function by touching.

- Image shown may differ from your TV.

Only 50/60PV25**, 42/50PT35**, 50PV35**, 42/50PT25**



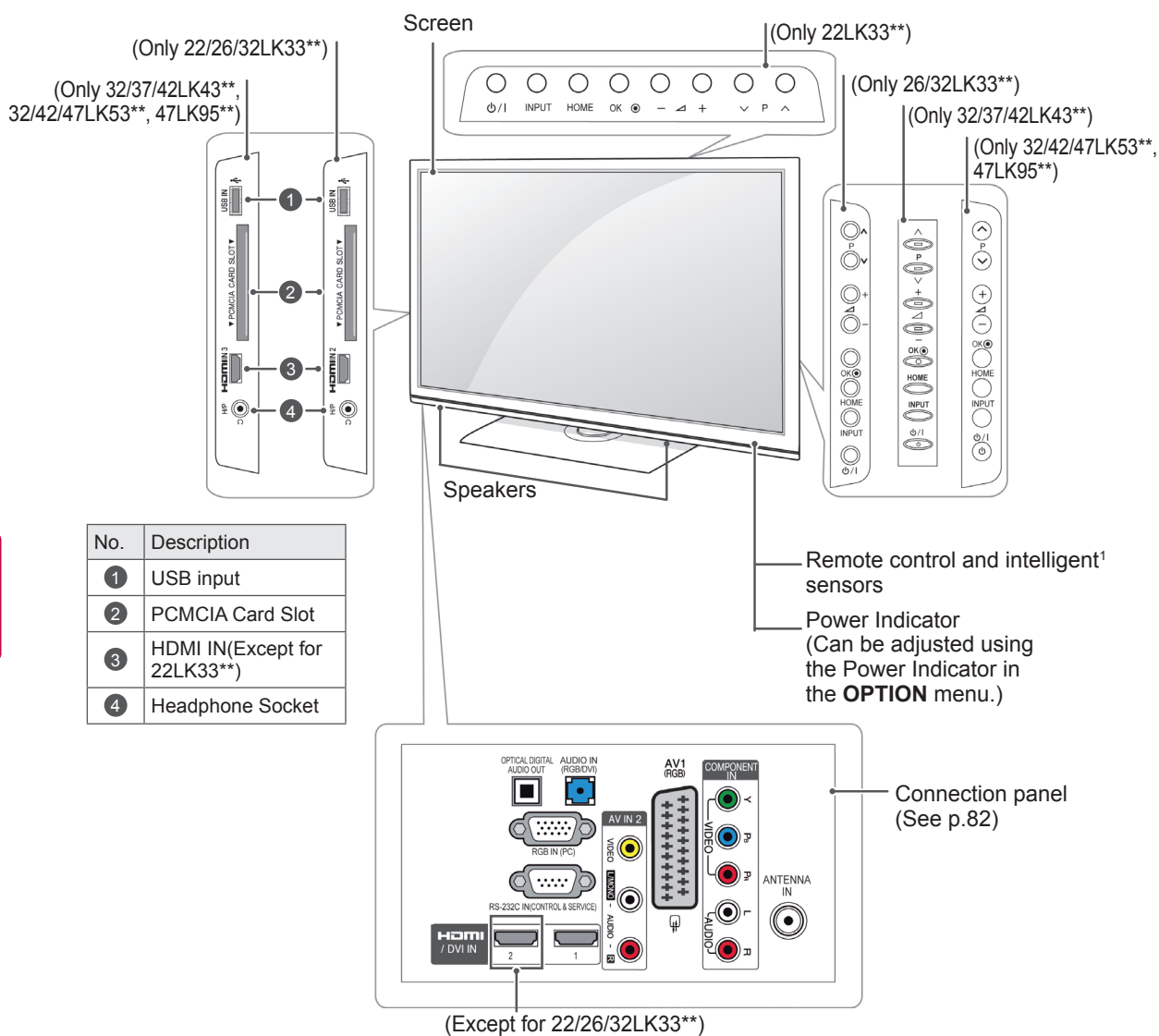
Button	Description
⏻/⏻	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK	Selects the highlighted menu option or confirms an input
- ▴ +	Adjusts the volume level
▽ P ▴	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.

2 Touch Button - You can use the desired button function by touching.

- Image shown may differ from your TV.

Only 22/26/32LK33**, 32/37/42LK43**, 32/42/47LK53** (Except for 32/42/47LK530T), 47LK95**

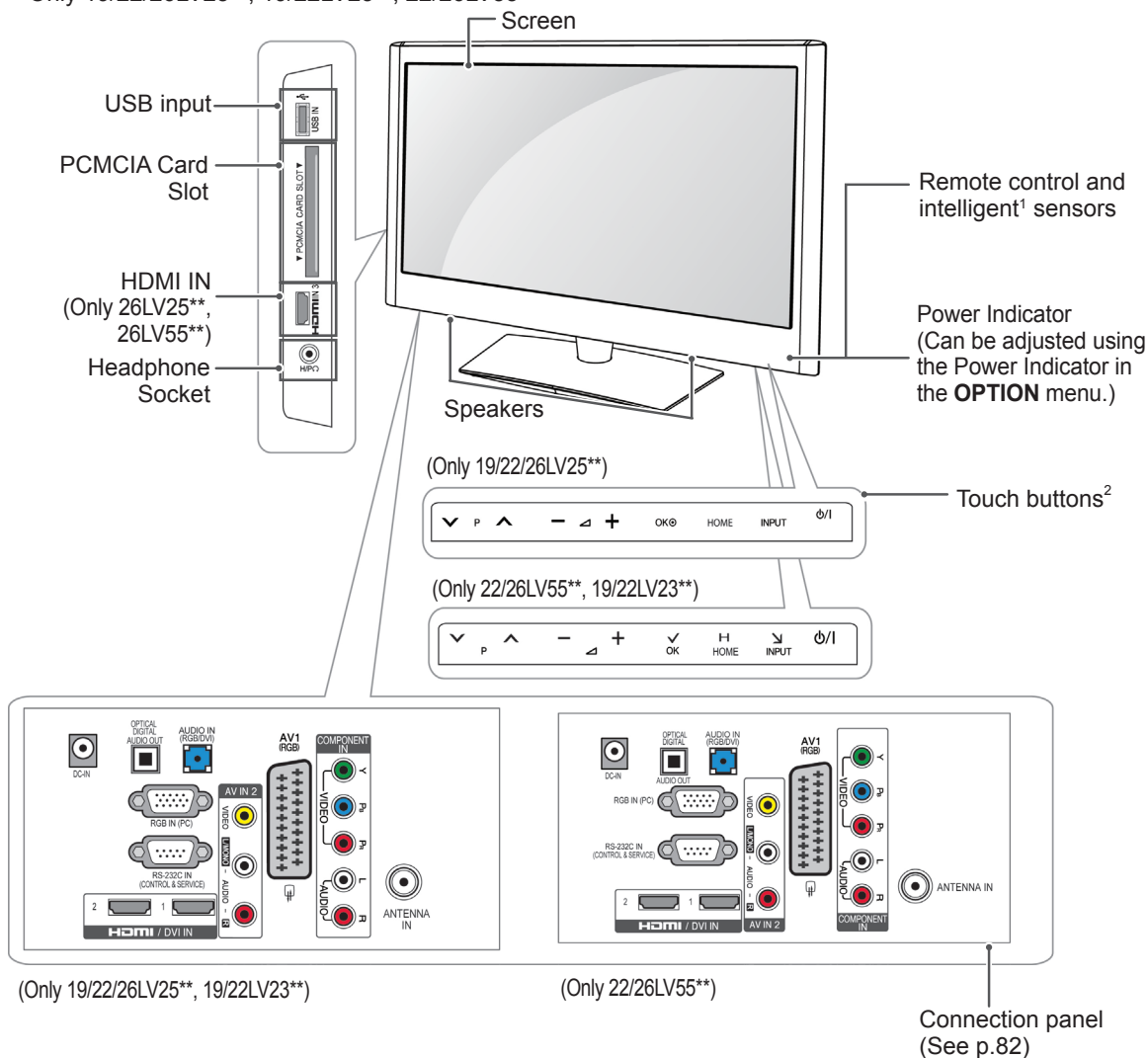


Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK	Selects the highlighted menu option or confirms an input
- ▴ +	Adjusts the volume level
▽ P ^	Scrolls through the saved programmes

- 1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment. (Only 32/42/47LK53**, 47LK95**)

- Image shown may differ from your TV.

Only 19/22/26LV25**, 19/22LV23**, 22/26LV55**

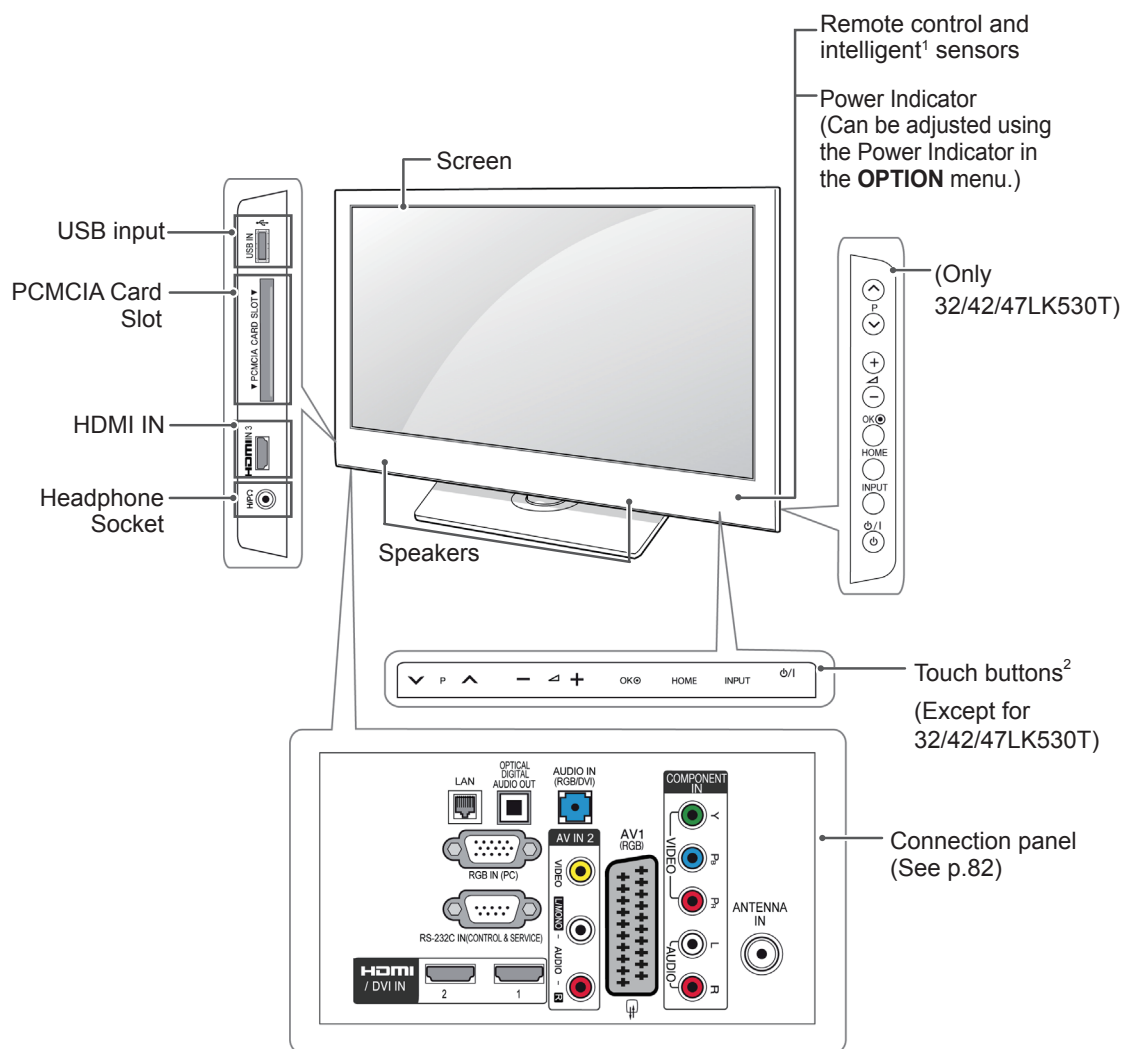


Button	Description
▼ P ▲	Scrolls through the saved programmes
— ▢ +	Adjusts the volume level
OK	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻/⏻	Turns the power on or off

- 1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2. Touch Button - You can use the desired button function by touching.

- Image shown may differ from your TV.

Only 32/42/47LK530T, 32/42LK550T, 32/37/42/47LV355T

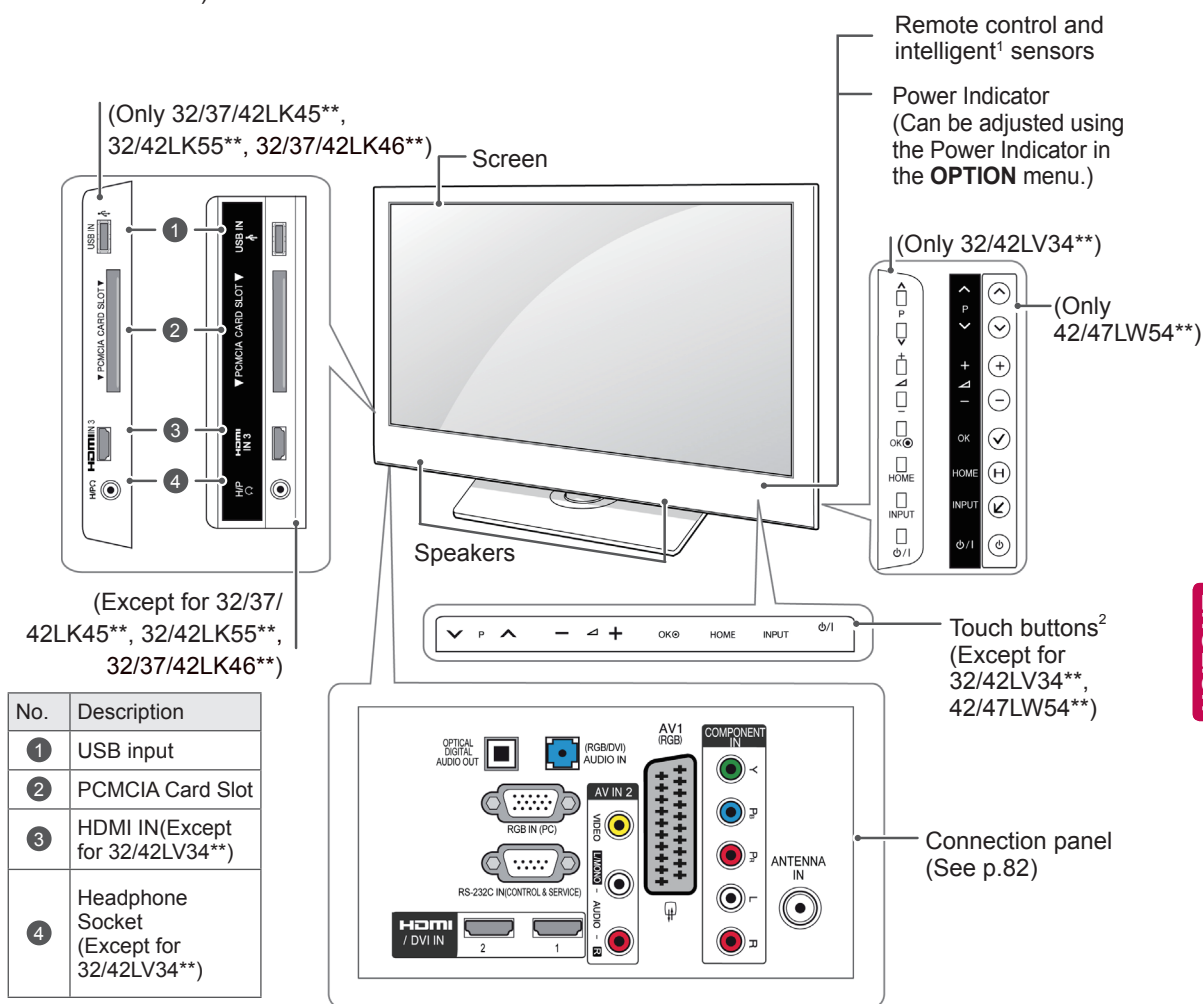


Button	Description
✓ P ^	Scrolls through the saved programmes
- < +	Adjusts the volume level
OK	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻	Turns the power on or off

- Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
- Touch Button - You can use the desired button function by touching.

- Image shown may differ from your TV.

Only 32/37/42LK45**, 32/42LK55**, 32LV25**, 32/42LV34**, 32/37/40/42/47LV35**, 32/37/42/47LV45**, 32/42/47/55LV45**, 42/47LV54**, 32/37/42LK46**, 32/37/42/47LV36** (Except for 32/42LK550T, 32/37/42/47LV355T)



Button	Description
▼ P ▲	Scrolls through the saved programmes
— ◀ +	Adjusts the volume level
OK	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻/⏼	Turns the power on or off

- Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
- Touch Button - You can use the desired button function by touching.

Lifting and moving the TV

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



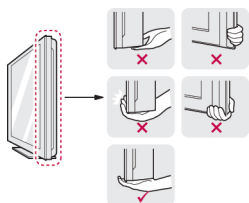
CAUTION

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

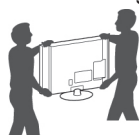
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the Power cord and all cables.
- When holding the TV, the screen should face away from you to prevent the screen from scratches.



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



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



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

Setting up the TV

- Image shown may differ from your TV.
- Put your TV on a pedestal stand and mount the TV on a table or wall.

Attaching the stand

(Only 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**)

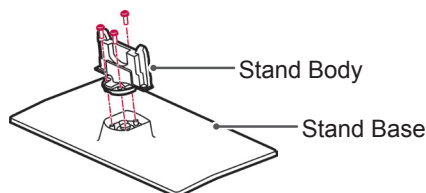
- 1 Lay the TV with the screen side down on a flat surface.



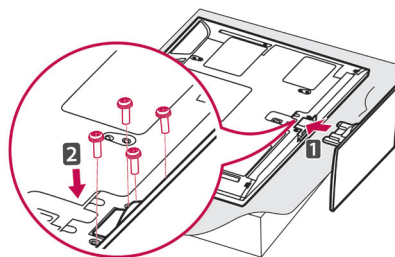
CAUTION

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

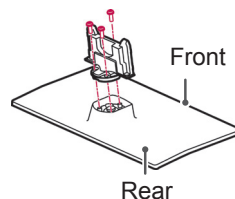
- 2 Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



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



Make sure to assemble the front and rear side of the stand.



CAUTION

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

(Only 22LK33**)

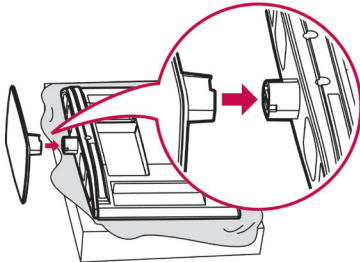
- 1 Lay the TV with the screen side down on a flat surface.



CAUTION

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

- 2 Assemble the TV as shown.



(Only 19/22LV23**)

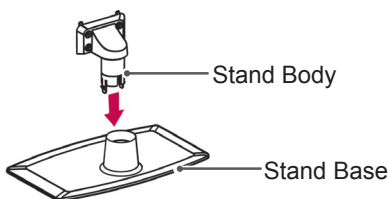
- 1 Lay the TV with the screen side down on a flat surface.



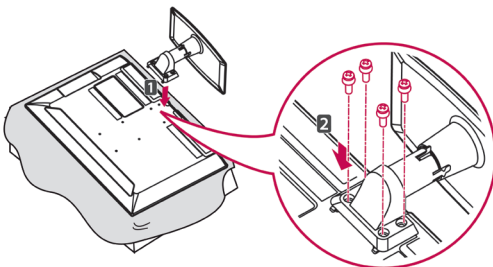
CAUTION

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

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



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



CAUTION

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

(Only 26/32LK33**, 32/37/42LK43**, 32/42/47LK53**, 32/37/42LK45**, 32/42LK55**, 47LK95**, 32/37/42LK46**)

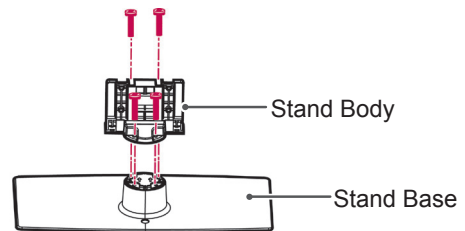
- 1 Lay the TV with the screen side down on a flat surface.



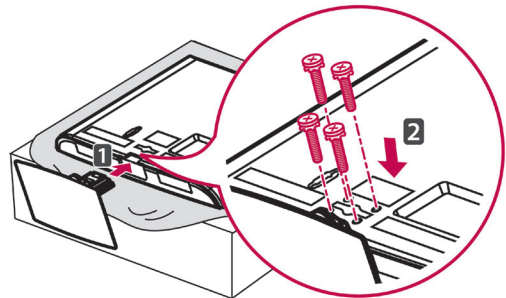
CAUTION

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

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



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



CAUTION

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

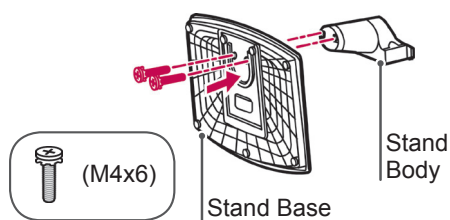
(Only 19/22/26LV25**, 22/26LV55**)

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

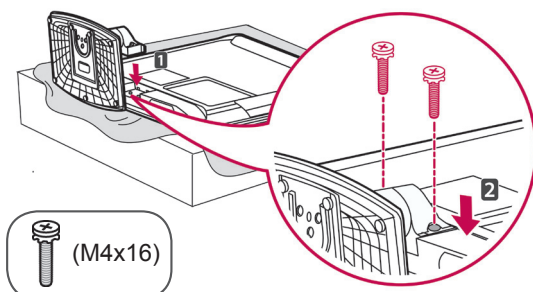
CAUTION

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

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



- 3 Secure the TV and the stand with the 2 screws.



CAUTION

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

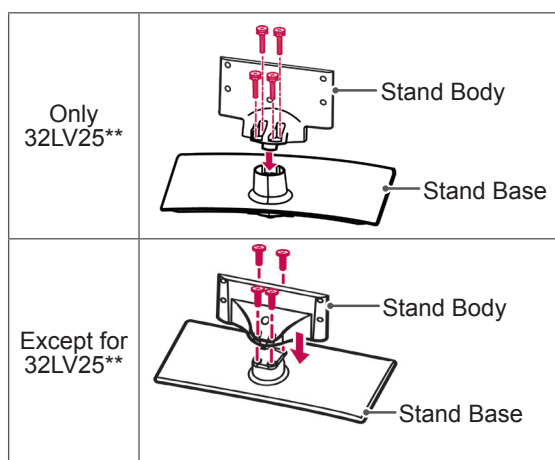
(Only 32LV25**, 32/42LV34**, 32/37/40/42/47LV35**, 32/37/42/47LV45**, 32/42/47/55LV45**, 32/37/42/47LV36**)

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

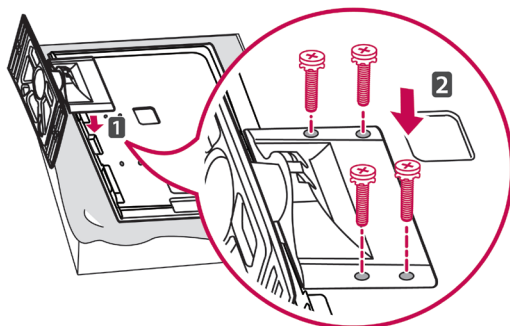
CAUTION

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

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



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



CAUTION

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

(Only 42/47LW54**)

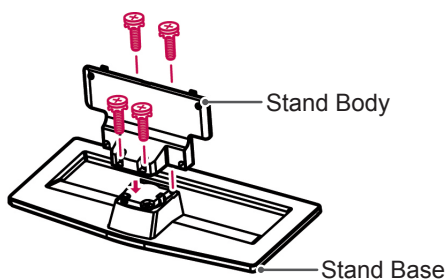
- 1 Lay the TV with the screen side down on a flat surface.



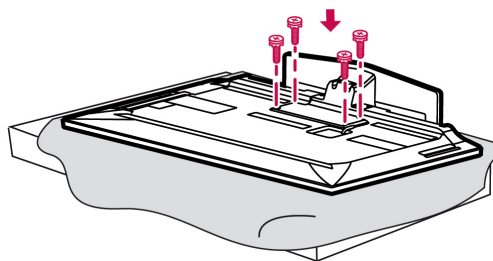
CAUTION

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

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



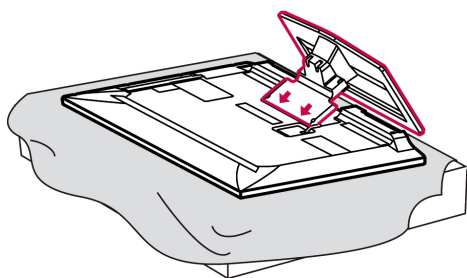
- 4 Secure the TV and the stand with the 4 screws.



CAUTION

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

- 3 Assemble the TV as shown.

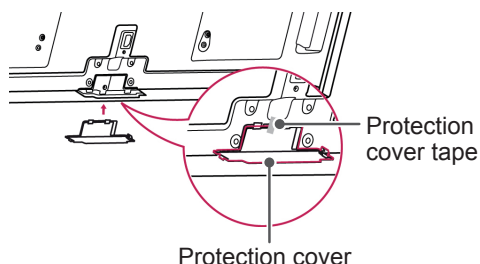


Not using the Desk Type stand

- Image shown may differ from your TV.

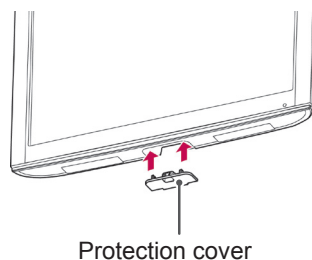
(Only 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**)

- Push the supplied Protection cover into the opening at the bottom of the TV until it locks in place.
- Attach the Protection cover tape.
 - This will protect the opening from accumulating dust and dirt.
 - When installing the wall mounting bracket, use the Protection cover.



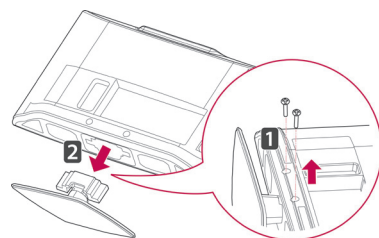
(Only 26/32LK33**, 32/37/42LK43**, 32/42/47LK53**, 32/37/42LK45**, 32/42LK55**, 47LK95**, 32/37/42LK46**)

- 1 Push the supplied Protection cover into the opening at the bottom of the TV until clicking sound.

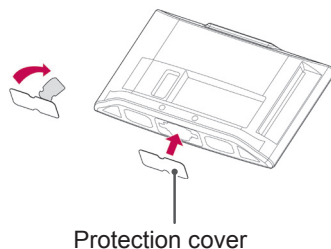


(Only 22LK33**)

- 1 Lay the TV with the screen side down on a flat surface.
- 2 Remove the 2 screws and pull the stand away from the TV.



- 3 Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.
This will protect the opening from accumulating dust and dirt.

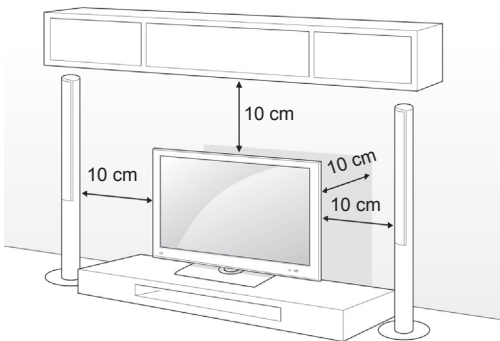


Mounting on a table

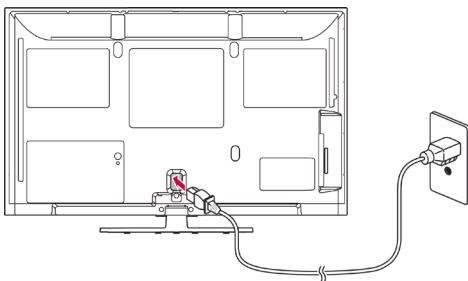
- Image shown may differ from your TV.

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

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



2 Connect the Power cord to a wall outlet.



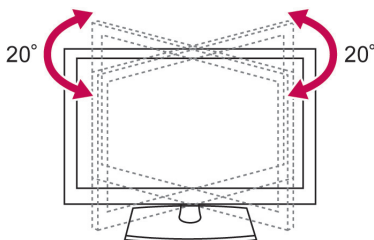
CAUTION

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



NOTE

- Swivel 20 degrees to the left or right and adjust the angle of the TV to suit your view. (Except for 22LK33**, 19/22/26LV25**, 22/26LV55**, 19/22LV23**)



Securing the TV to a table

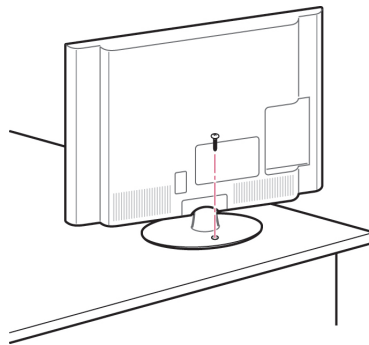
- Image shown may differ from your TV.

(Only 26/32LK33**, 32/37/42LK43**, 32/37/42LK45**, 32/42LK53**, 32/42LK55**, 32LV25**, 32/37LV35**, 32LW45**, 32/37LV45**, 32LV34**, 32/37/42LK46**, 32/37LV36**)

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.

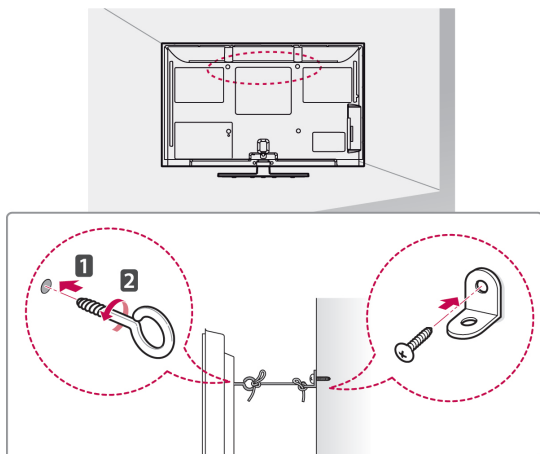


WARNING

- 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

- Image shown may differ from your TV.



- 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

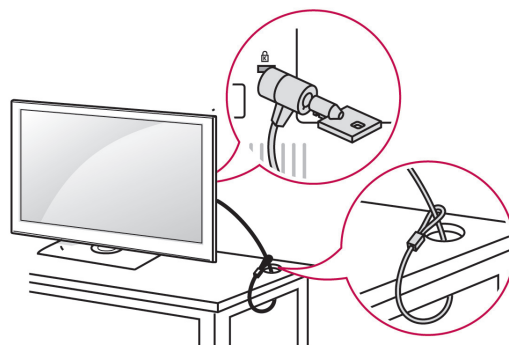
- Use a platform or cabinet that is strong and large enough to support the TV securely.

Using the Kensington security system (This feature is not available for all models.)

- Image shown may differ from your TV.

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>.

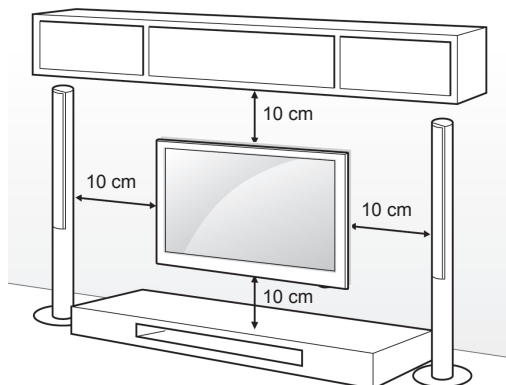
Connect the Kensington security system cable between the TV and a table.



Mounting on a wall

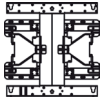
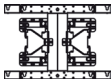
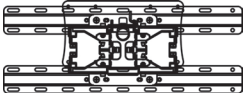
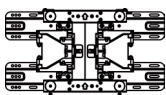
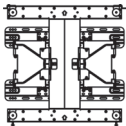
Attach a wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.

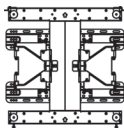
LG recommends that wall mounting be performed by a qualified professional installer.

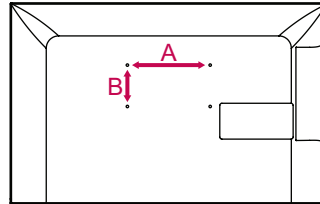


Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Separate purchase(Wall Mounting Bracket)

Model	42/50PT25** 42/50PT35** 50PV35** 50PZ25** 42/50PW45** 50PZ55** 42/50PT45** 50PV25**	60PV25** 60PZ25** 60PZ55**
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 
Model	22LK33** 19/22/26LV25** 22/26LV55** 19/22LV23**	26/32LK33** 32LK43** 32LK45** 32LK53** 32LK55** 32LV25** 32LV35** 32LV45** 32LW45** 32LV34** 32LK46** 32LV36**
VESA (A x B)	100 x 100	200 x 100
Standard screw	M4	M4
Number of screws	4	4
Wall mount bracket	LSW100B, LSW100BG 	
Model	37/42LK43** 37/42LK45** 42LK55** 42/47LK53** 37LV35** 37LV45** 47LK95** 37/42LK46** 37LV36**	40/42/47LV35** 42/47LV45** 42/47/55LW45** 42/47LV36**
VESA (A x B)	200 x 200	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW200B, LSW200BG 	LSW400B, LSW400BG 

Model	42LV34** 42/47LW54**
VESA (A x B)	400 x 400
Standard screw	M6
Number of screws	4
Wall mount bracket	LSW400BX, LSW400BXG 



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

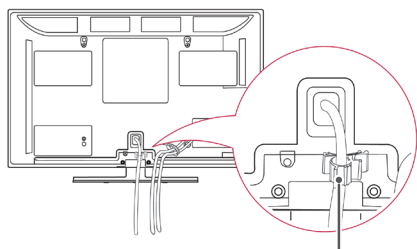
- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied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

Tidying cables

- Image shown may differ from your TV.

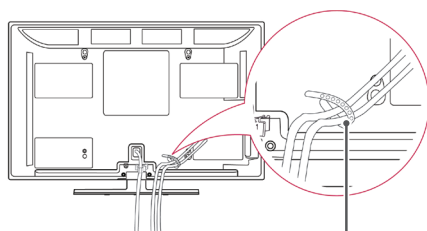
(Only 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**)

- 1 Install the **Power cord holder** and **Power cord**. It will help prevent the power cable from being removed by accident.



Power cord holder

- 2 Gather and bind the cables with the **Cable holder**. Install the LAN cable as shown to reduce the electromagnetic wave (Only 50PV350T, 50/60PZ250T, 42/50PW450T, 42/50PW451T, 50/60PZ550T).



Cable holder

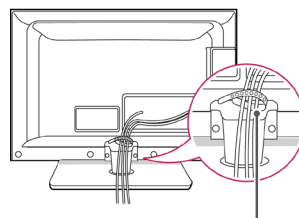


CAUTION

- 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.

(Only 22LK33**, 19/22/26LV25**, 22/26LV55**, 19/22LV23**)

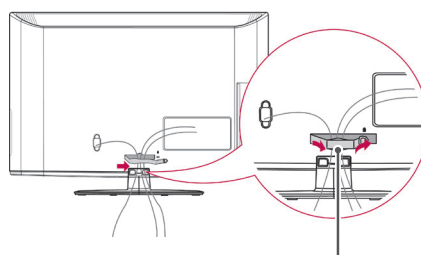
- 1 After connecting the cables as necessary, install **Cable holder** as shown and bundle the cables.



Cable holder

(Only 26/32LK33**, 32/37/42LK43**, 32/37/42LK45**, 32/42/47LK53**, 32/42LK55**, 47LK95**, 32/37/42LK46**)

- 1 Gather and bind the cables with the Cable management clip.
- 2 Fix the Cable management clip firmly to the TV.



Cable management clip

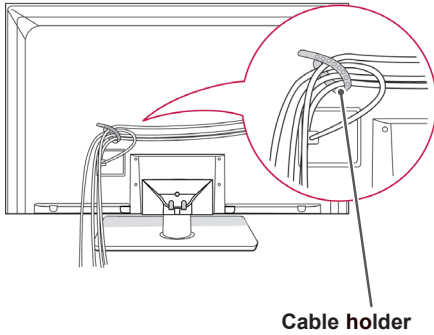


NOTE

- 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.

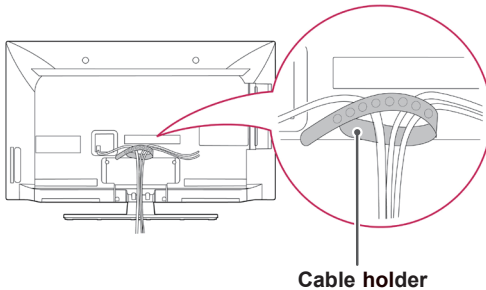
(Only 32LV25**, 32/37/40/42/47LV35**,
32/42/47/55LV45**, 32/37/42/47LV45**,
32/42LV34**, 32/37/42/47LV36**)

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



(Only 42/47LV54**)

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



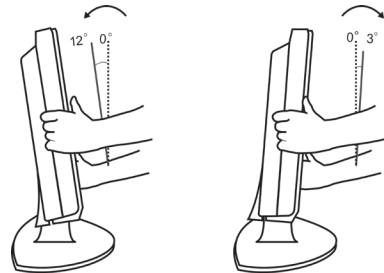
Positioning your display

- Image shown may differ from your TV.

(Only 22LK33**)

Adjust the position of the panel in various ways for maximum comfort.

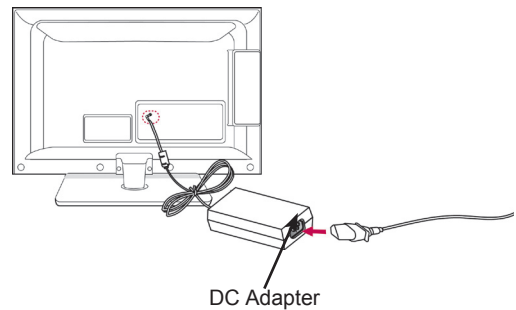
- Tilt range



Connection of TV

- Image shown may differ from your TV.

(Only 19/22/26LV25**, 22/26LV55**, 19/22LV23**)



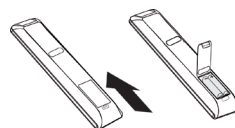
- 1 Connect the antenna cable to the antenna input port on the TV.
- 2 Connect the DC adapter plug to the power input jack on the TV.
- 3 Connect the Power cord to the DC adapter first, then plug the Power cord into the wall power outlet.

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 to 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



⏻(POWER)

Turns the TV on or off.

ENERGY SAVING (See p.67)

Adjusts the brightness of the screen to reduce energy consumption .

AV MODE (See p.44)

Selects an AV mode.

INPUT (See p.44)

Changes the input source; Turns the TV on .

TV/RAD

Selects Radio, TV and DTV programme.

LIGHT

Illuminates the remote control buttons.



Number buttons

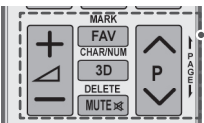
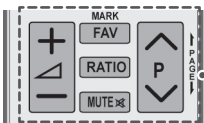
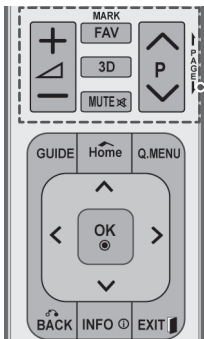
Enters numbers.

LIST (See p.39)

Accesses the saved programme list.

Q.VIEW

Returns to the previously viewed programme.



△ + -
Adjusts the volume level.

MARK
Selects a menu or option.

FAV (See p.39)
Accesses your favourite programme list.

3D (Only 3D Models) (See p.49)
Used for viewing 3D video.

RATIO (See p.42)
Resizes an image.

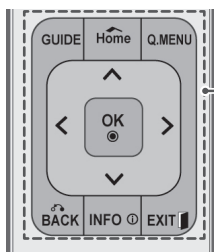
MUTE
Mutes all sounds.

P ^ v
Scrolls through the saved programmes.

PAGE
Moves to the previous or next screen.

CHAR/NUM
Switches between Letter and Number input modes.

DELETE
Deletes letters and numbers.

**GUIDE**

Shows programme guide.

Home

Accesses the main menus.

Q. MENU (See p.46)

Accesses the Quick menus.

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.

INFO (See p.40)

Views the information of the current programme and screen.

EXIT

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

**Coloured buttons**

These buttons are used for teletext (on TELETEXT models only), Programme edit.

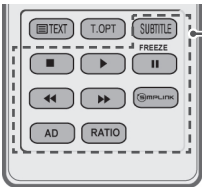
3D SETTING (Only 3D Models)

Use this to view 3D video.

**TELETEXT BUTTONS** (See p.90)

These buttons are used for teletext.

For further details, see the 'Teletext' section.



SUBTITLE

Recalls your preferred subtitle in digital mode.

Control buttons (■, ►, II, ◀◀, ▶▶)

Controls the MY MEDIA menus, or the SIMPLINK compatible devices (USB, SIMPLINK).

FREEZE

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

SIMPLINK (See p.89)

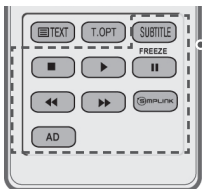
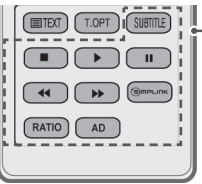
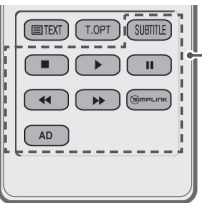
Accesses the AV devices connected to the TV;
Opens the SIMPLINK menu.

AD

Switches the Audio Description on or off.

RATIO (See p.42)

Resizes an image.



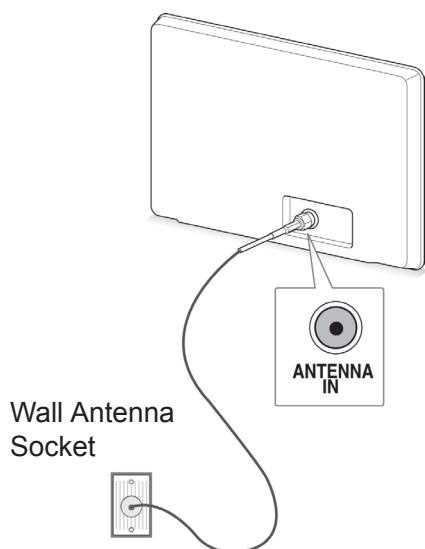
WATCHING TV

Connecting an antenna

Connect an antenna to watch TV while referring to the following.

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

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



! NOTE

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

Turning the TV on for the first time

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

- 1 Connect the Power cord to a power outlet.
- 2 In Standby mode, press **(POWER)** to turn the TV on.

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

! NOTE

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

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

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	Set 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'.

- 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.

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 main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Antenna** and press **OK**.
- 5 Select **Start** to start automatic tuning.
The TV scans and saves available programmes automatically.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- You can store up to 1,000 programmes. The number of programmes that you can store differs depending on the broadcasting signal environment.
- **Automatic Numbering:** Decide whether to use the programme numbers as sent by broadcasting stations for tuning.
- 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.
- In the following country, DVB cable can be used : Germany, Netherlands, Sweden, Switzerland, Denmark, Austria, Finland, Norway, Slovenia, Hungary, Ukraine, Ireland, Poland, Romania, Spain, Bulgaria, Russia, Lithuania, Estonia, Latvia, Czech. (The supported country can be added.)
- In the following country, Digital TV can not be used : Bosnia, Kazakhstan. (Only Plasma TV).

Selecting **Cable**,

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Cable** and press **OK**.
- 5 Press the Navigation buttons to scroll to **Comhem** or **Other Operators** and press **OK**.
- 6 Press the Navigation buttons to scroll to **Quick** or **Full** and press **OK**.
- 7 Press the Navigation buttons or Number buttons to scroll make appropriate adjustments (Except for Full mode) 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.
- When you select the **Cable**, the **Cable Service Operator** selection screen can differ or not exist by the Cable situation of the applicable country. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)
- 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**. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)

- 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**. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)
- 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)(The acquired certification SO can be added.)(Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)
- If there are not any Service Operator that you want, select **Other Operators**. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)
- 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. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)
- If some of the channels do not appear, follow the steps below:

1. **SETUP -> Auto Tuning -> Cable -> Setting**
2. Switch Home Tuning from "**Off**" to "**On**"
3. Input additional values such as the frequency, symbol rate, modulation, and network ID. (You can ask your cable service provider for the above information.)

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.

If some channels are not detected when **Full** is selected, select the In detail checkbox and then try tuning again.

- **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.

Cable DTV Setting (In Cable 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 main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Cable DTV Setting** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Service Operator** or **Channel Auto update** and press **OK**.
- 5 Select your desired Source.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

- If you select **Cable**, you can see **Cable DTV Setting** menu.
- 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".

Manually setting up programme (In digital mode)

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

Selecting **Antenna**,

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.
- 4 Press the Navigation buttons to scroll to **DTV** and press **OK**.
- 5 Scroll through the programme types, and then add or delete programmes.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Selecting **Cable**,

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.
- 4 Press the Navigation buttons to scroll to **Cable DTV** and press **OK**.
- 5 Make appropriate adjustments.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



NOTE

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



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. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)

Manually setting up programme (In analogue mode)

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

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



NOTE

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

Assigning a station name

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

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

Fine Tuning (Depending on model)

Normally fine tuning is only necessary if reception is poor.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.
- 4 Press the Navigation buttons to scroll to **TV or Cable TV**.
- 5 Press the Navigation buttons to scroll to **Fine**.
- 6 Fine tune for the best picture and sound.
- 7 Press the Navigation buttons to scroll to **Store** and press **OK**.
- 8 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Booster

(Depending on model)

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

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Booster** and press **OK**.
- 4 Select **On** or **Off**.

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.

You can change the programme number using "Move" function, if "Automatic Numbering" is unchecked when you start Auto Tuning.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Programme Edit** and press **OK**.
- 4 Press the Navigation buttons to select a programme to be stored or skipped.
- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

In DTV/RADIO mode

Skipping a programme number

- 1 Press the Navigation buttons to scroll to select a programme number to be skipped.
- 2 Press Blue button to turn the programme number.
- 3 Press Blue button to release.

 NOTE

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

Locking a programme number

- 1 Press the Navigation buttons to scroll to select a programme number to be locked.
- 2 Press Yellow button to turn the programme number.
- 3 Press Yellow button to release.

 NOTE

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

In TV mode

Deleting a programme

- 1 Press the Navigation buttons to scroll to select a programme number to be deleted.
- 2 Press Red button to turn the programme number.



NOTE

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

Moving a programme

- 1 Press the Navigation buttons to scroll to select a programme number to be moved.
- 2 Press the Green button to turn the programme number and press the Navigation buttons.
- 3 Press Green button to release.

Skipping a programme number

- 1 Press the Navigation buttons to scroll to select a programme number to be skipped.
- 2 Press Blue button to turn the programme number.
- 3 Press Blue button to release.



NOTE

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

Auto Sort

- 1 Press the Navigation buttons to start Auto Sort and press **OK**.



NOTE

- After activating Auto Sort once, you can no longer edit programmes.

Locking a programme number

- 1 Press the Navigation buttons to scroll to select a programme number to be locked.
- 2 Press Yellow button to turn the programme number.
- 3 Press Yellow button to release.



NOTE

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

Selecting favourite programme

- 1 Press the Navigation buttons to scroll to select your desired programme.
- 2 Press the **FAV** to add corresponding programme to Favourite list of current Favourite group.
- 3 Press **FAV** to release.

Selecting favourite programme group

- 1 Press the Navigation buttons to scroll to select your desired programme.
- 2 Press the **Q.MENU** to display a pop-up window where Favourite group can be changed.
- 3 Press the Navigation buttons to scroll to select a Favourite group and press **OK**.

CI [Common interface] Information

- This feature is not available in all countries.

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.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to **CI Information** and press **OK**.
- 4 Select the desired item: Module information, smart card information, language, or software download etc and press **OK**.
- 5 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.

Selecting the programme list

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

Displaying programme LIST

- 1 Press **LIST** to access the Programme List.
- 2 Press Blue button to turn the programme edit.

! NOTE

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

Selecting a programme in the programme list

- 1 Press Navigation buttons to select programme.
- 2 Press **OK** to switch to the chosen programme number.

! NOTE

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

Paging through a programme list

- 1 Press the **P** $\wedge$ $\vee$ buttons to turn the pages.
- 2 Press **LIST** to return normal TV viewing.

Displaying the favourite programme list

- 1 Press **FAV** to access the Favourite Programme List.
- 2 When you are finished, press **EXIT**.

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

EPG (Electronic Programme Guide) (In digital mode)

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

The EPG supplies information such as programme listings, start and end times for all available services.

In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

This function can be used only when the EPG information is broadcast by broadcasting companies.

You must set the Clock in the **Time** menu, before using EPG function.

The EPG displays the programme details for 8 days.



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

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

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

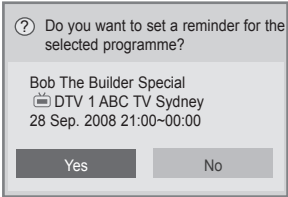
(Only Plasma TV)



OK	A pop-up window for record/remind settings appear.
^ ∨	Select Timer Record/Remind setting mode.

or

(Only LCD TV/LED LCD TV)



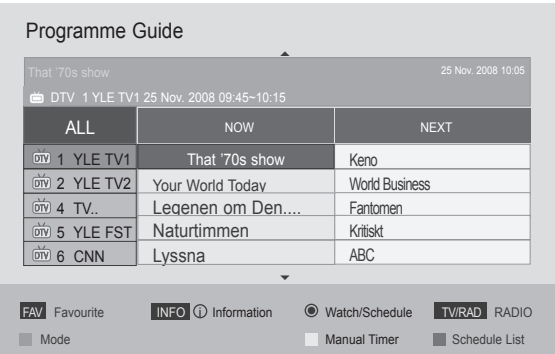
OK	A pop-up window for remind settings appear.
< >	Select Timer Remind setting mode.

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.



NOW/NEXT Guide Mode

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

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

8 Day Guide Mode

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

Date Change Mode

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

Extended Description Box

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

Record/Remind Setting Mode

(Only Plasma TV)

Sets a start or end time, programme for recording, and sets a start time, programme for the reminder with the end time grayed out.

This function is available only when recording equipment that use pin8 recording signalling has been connected to the TV-OUT(AV1) terminal, using a SCART cable.

Recording function is only supported in the Digital mode and not in the Analogue mode.

Button	Description
BACK	Switch off Manual Timer mode.
Yellow button	Change to Guide mode.
Blue button	Change to Schedule List mode.
OK	Save Timer Record/Remind.
< >	Select Type, Start Time, End Time or Programme.
^ v	Select Remind or Record function setting.

or

Remind Setting Mode

(Only LCD TV/LED LCD TV)

Button	Description
BACK	Switch off Manual Timer mode.
OK	Appear Repeat Option popup.
Navigation button	Select the date to schedule.
Yellow button	Change to Guide mode.
Blue button	Change to Schedule List mode.

Schedule List Mode

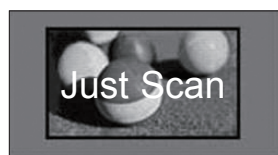
If you've created a schedule list, a scheduled programme is displayed at the scheduled time even when you are watching a different programme at the time.

Button	Description
Yellow button	Change to Manual Timer mode.
Blue button	Change to Guide mode.
GUIDE	
OK	Select your desired Option (Modify/Delete/Delete All).
^ v	Select programme.
P ^ v	Page Up/Down.
BACK	Switch off Schedule List.

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



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



Using additional options

Adjusting aspect ratio

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

! NOTE

- You can also change the image size by pressing **Q. MENU** or accessing **Aspect Ratio** in the Picture menus.
- For Zoom Setting, select **14:9**, **Zoom** and **Cinema Zoom** in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- You can only select **4:3**, **16:9** (Wide), **14:9**, **Zoom/Cinema Zoom** in Component mode.
- You can only select **4:3**, Original, **16:9** (Wide), **14:9**, **Zoom/Cinema Zoom** in HDMI mode.
- You can only select **4:3**, **16:9** (Wide) in RGB-PC, HDMI-PC mode only.
- In DTV/HDMI/Component (over 720p) mode, **Just Scan** is available.
- In Analogue/DTV/AV/Scart mode, **Full Wide** is available.

! NOTE

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

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



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

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



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



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



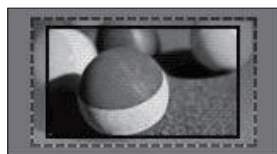
- **Zoom:** Enlarges an image to fit the screen width. The top and bottom of the image may not appear.



! NOTE

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

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



! NOTE

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

Changing AV modes

Each AV mode has the optimized image and sound settings.

Press **AV MODE** repeatedly to select an appropriate mode.

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



NOTE

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

Using the input list

Selecting an input source

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

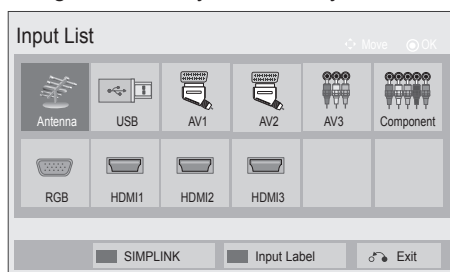


NOTE

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

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

- Image shown may differ from your TV.



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

The connected input sources display in black and the disconnected input sources in grey.

- To add an input label, press the Blue button.

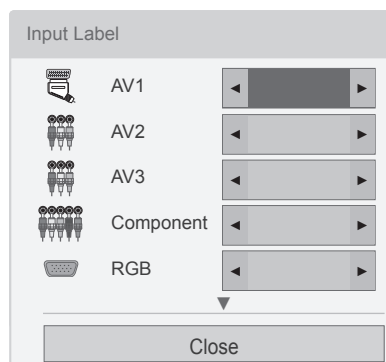
You can easily identify a device connected to each input source

- 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. (Only LCD TV/LED LCD TV).

Adding an Input label

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

- Image shown may differ from your TV.



- 1 Press **INPUT** to access the input sources.
- 2 Press the **Blue** button.
- 3 Press the Navigation buttons to scroll to one of the input sources.
- 4 Press the Navigation buttons to scroll to one of the input labels.
- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Locking the buttons on the TV (Child Lock)

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

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **LOCK** and press **OK**.
- 3 Press Navigation buttons to scroll to **Key Lock** and press **OK**.
- 4 Select **On** to activate the Key lock feature.
 - To deactivate the Key lock feature, select **Off**.
- 5 When you are finished, press **EXIT**.

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



NOTE

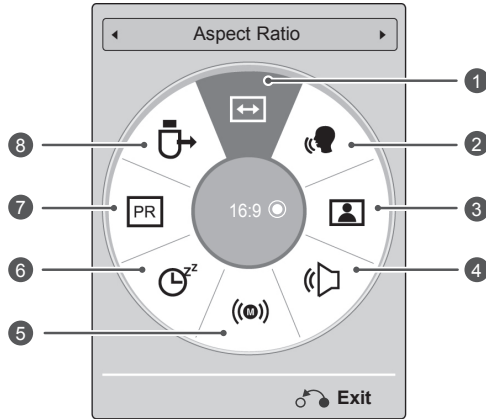
- The TV is programmed to remember the last setting after you turn the TV off.
- If you turn the TV off with the **Key Lock** feature activated, press the **⏻**, **INPUT**, **P**, **^**, **v** or Number buttons on the remote control.
- If you press any button on the TV with the Key lock feature activated,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

Using the quick menu

Customize the frequently using menus.

- 1 Press **Q. MENU** to access the quick menus.
- 2 Press Navigation buttons to scroll through the following menu and press **OK**.

- Image shown may differ from your TV.



!

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**.

ENGLISH

Menu	Description
1 Aspect Ratio	Changes the image size (16:9, Just Scan, Original, Full Wide, 4:3, 14:9, Zoom, Cinema Zoom)
2 Clear Voice II	By differentiating the human sound range from others, it helps users listen to human voices better.
3 Picture Mode (Depending on model)	Changes the image mode (Vivid, Standard, APS, Cinema, 16:9 Cinema, 16:9 Bright Room, Sport, Game, Photo, Expert1, Expert2)
4 Sound Mode	Changes the sound mode (Standard, Music, Cinema, Sport, Game)
5 Audio or Audio Language	Changes the sound output.
6 Sleep Timer	Sets the length of time until the TV to turns off
7 Skip Off/On	Sets the Skip Off/On.
8 USB Device	Ejects a USB device when a USB device is connected

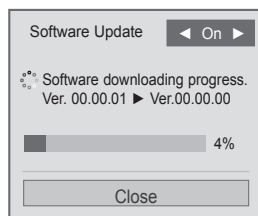
Using the Customer Support

Testing Software Update

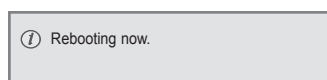
To download software through the digital terrestrial broadcasting system.

- 1 Press **Home** to access the main menus.
- 2 Press the Red button to scroll **Customer Support**.
- 3 Press the Navigation buttons to scroll **Software Update**.
- 4 Press the Navigation buttons to scroll to **On** and press **OK**.
 - If you select **On**, a user confirm message box will be displayed to notify that new software is found.
- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

- Download starts when "**Yes**" is selected. At this time, progressing pop-up window does not display.
- Download progress status can be checked from Software Update menu.

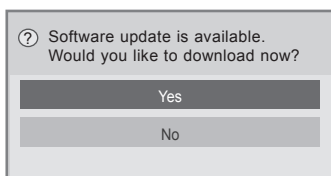


- TV is restarted when download is completed.

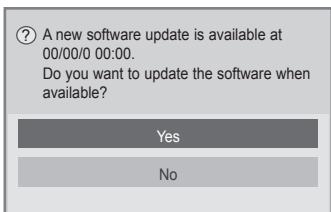


When setting "Software Update"

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



- Simple Update : for current update stream



- Schedule Update : for scheduled update stream
- When the Software Update menu is "**Off**", the message to change it to "**On**" appears.

NOTE

- During Progress of a **Software Update**, please note the following:
 - Power to the TV must not be interrupted.
 - The antenna must not be disconnected.
- After **Software Update**, you can confirm the updated software version in Software Update menu.
- It may take hours to download the software, so make sure that the power stays on during the download.
- The software is downloaded only in Standby mode or in MUX with Software Update Service, and stops when the Power cord is unplugged or when viewing MUX without Software Update Service.
- When you return to Standby mode or MUX with Software Update Service, the software download will resume from where it stopped.

Testing the Picture / Sound

To execute picture and sound tests.

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

Using the product or service information

To check the product or service information

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

Using Signal Test

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

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



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.))

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. You need such a device to watch the TV in 3D. The 3D TV displays two separate pictures formatted for each eye. The viewer needs to wear 3D glasses in order to see these images in 3D format.



WARNING

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

Also certain symptoms can occur in unspecified conditions without any previous history. If you experience any of the following symptoms, immediately stop watching the 3D imaging and consult a doctor: dizziness or lightheadedness, visual transition or altered vision, visual or facial instability, such as eye or muscle twitching, unconscious action, convulsion, loss of conscience, confusion or disorientation, loss of directional sense, cramps, or nausea. Parents should monitor their children, including teenagers, for these symptoms as they may be more sensitive to the effects of watching 3D TV.

- Risk of photosensitization seizure can be reduced with the following actions.
 - » Take frequent breaks from watching 3D TV.
 - » For those who have vision that is different in each eye, they should watch the TV after taking vision correction measures.
 - » Watch the TV so that your eyes are on the same level as the 3D screen and refrain from sitting too closely to the TV.
 - » Do not watch the 3D imaging when tired or sick, and avoid watching the 3D imaging for a long period of time.
 - » Do not wear the 3D glasses for any other purpose than viewing 3D imaging on a 3D TV.
 - » Some viewers may feel disoriented after watching 3D TV. Therefore, after you watch 3D TV, take a moment to regain awareness of your situation before moving.

**NOTE**

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

When Using 3D glasses**CAUTION**

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

3D Imaging Viewing Range

(Only Plasma TV)

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

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

Watching 3D images

- Image shown may differ from your TV.

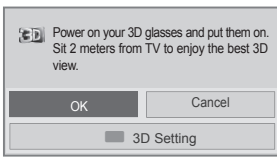
View 3D mode for 3D images

- 1 Play the 3D video or select 3D channel.
(2D to 3D mode is available with all contents)
- 2 Press 3D and select same type in your displayed picture on the screen.
(Select type on "3D Video" tab)

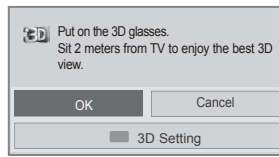


* Notice : Turn on the 3D mode automatically for HDMI input playing the 3D blueray titles.

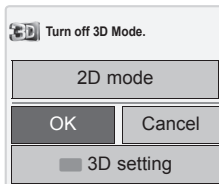
- 3 Press OK on displayed information window.



or



- 4 To turn off the 3D mode, press 3D and select OK.

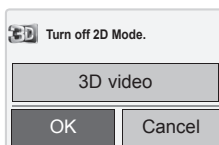


View 2D mode for 3D images

- 1 Play the 3D video or select 3D channel.
- 2 Press 3D and select same type in your displayed picture on the screen.
(Select type on "2D Video" tab)

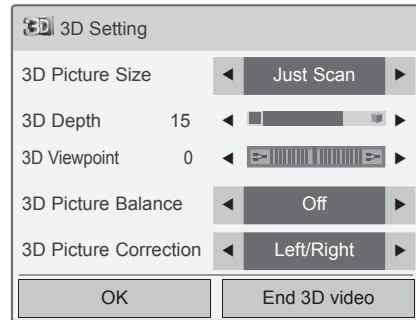


- 3 To turn off the 2D mode, press 3D and select OK.

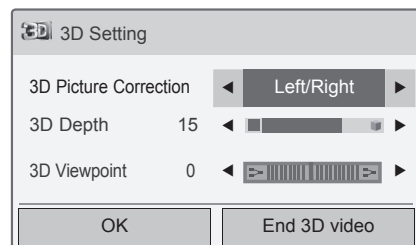


Using 3D quick menu option

- 1 Press **3D SETTING**.
- 2 Use the following options while viewing 3D imaging.



or



(Depending on model)

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

**CAUTION**

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

**CAUTION**

* For LCD TV/LED LCD TV

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

ENTERTAINMENT

Connecting to a wired network

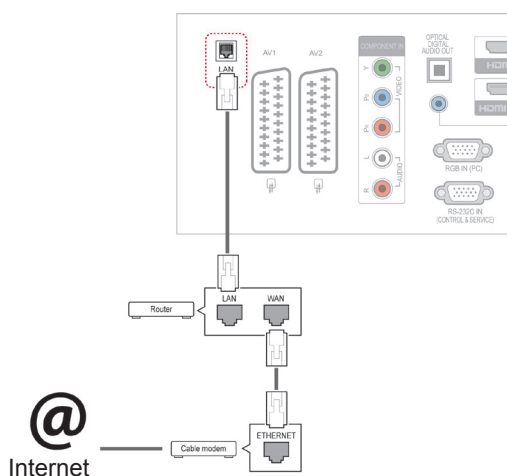
(Depending on model)

Connect the TV to a local area network (LAN) via the LAN port as shown on 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.

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 main menus.
- 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 already set Network Setting, select **Resetting**. The new connection settings resets 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.
- 8 When you are finished, press **EXIT**.

**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.

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 subscription 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.

Network Status

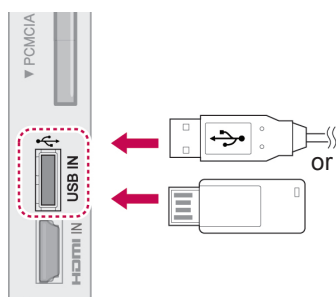
- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
- 3 Press the Navigation buttons to select **Network Status**.
- 4 Press **OK** to check the network status.
- 5 When you are finished, press **EXIT**.

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

Connecting USB storage devices

Connect USB storage devices such as a USB flash memory, external hard drive to the TV and use multimedia features (See "Browsing files" on p.56).

Connect a USB flash memory or USB memory card reader to the TV as shown on the following illustration. The My media screen appears.



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

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



CAUTION

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

Tips for using USB storage devices

- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files or movie files.
- Please use only a USB storage device which was formatted as a FAT32 file system, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source.
 - Please use a power adaptor for an external power source. We do not guarantee an USB

cable for an external power source.

- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB memory device does not work properly, disconnect and reconnect it.
- How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a “Energy Saving” function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- Maximum of 999 folders or files can be recognized under one folder.

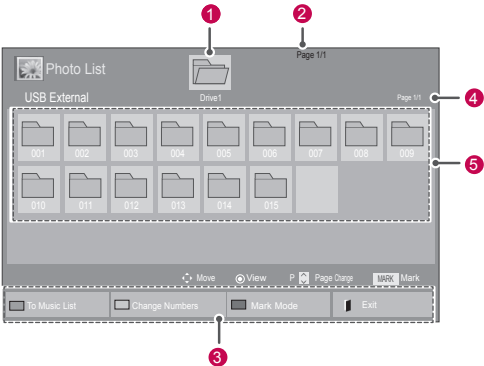
Browsing files

Access the photo, music, or movie lists(Except for 50PV250N, 50PT250N) and browse files.

- 1 Connect a USB storage device.
- 2 Press **Home** to scroll to main menus.
- 3 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 4 Press Navigation buttons to scroll to **PHOTO LIST**, **MUSIC LIST**, or **MOVIE LIST**(Except for 50PV250N, 50PT250N) and press **OK**.



Except for 50PV250N, 50PT250N



No.	Description
1	Moves to upper level folder
2	Current page/Total pages
3	Corresponding buttons on the remote control
4	Current page/ total pages of contents under the folder focused on 1
5	Contents under the folder focused on 1
Button	Description
Green button	Repeatedly, press the GREEN button to converted to Photo List->Music List , Music List->Movie List or Movie List->Photo List . (Except for 50PV250N, 50PT250N) Repeatedly, press the GREEN button to converted to Photo List->Music List or Music List->Photo List . (Only 50PV250N, 50PT250N)
Yellow button	A method to view in 5 large thumbnail or simple list.
Blue button	Convert to Mark Mode.

Supported file format

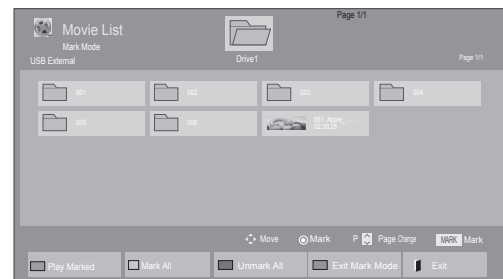
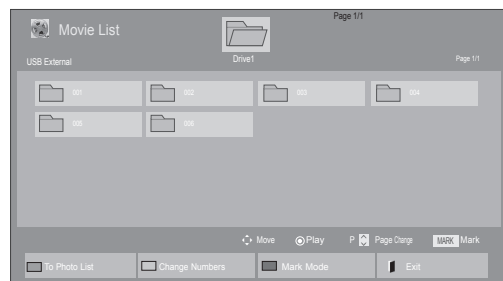
Type	Supported file format																				
Movie (Except for 50PV250N, 50PT250N)	DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,TS,TRP,TP,ASF,WMV,FLV) Movie(* .mpg/* .mpeg/* .dat/* .ts/* .trp/* .tp/* .vob/* .mp4/* .mov/* .mkv/* .divx/* .avi/* .asf/* .wmv/* .flv/* .avi(motion-jpeg)/* .mp4(motion-jpeg)/* .mkv(motion-jpeg))supporting file Video format : DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid1.10 beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC, VC1, JPEG, Sorenson H.263 Audio format : Dolby Digital, Mpeg, MP3, LPCM, ADPCM, WMA Bit rate : within 32 kbps to 320 kbps(MP3) External Subtitle format : *.smi/* .srt/* .sub (MicroDVD,Subviewer1.0/2.0)/* .ass/* .ssa/* .txt(TMPlayer)/* .psb(PowerDivX) Internal Subtitle format : only, XSUB (It is the subtitle format used in DivX6 files)																				
Photo	JPEG Baseline : 64 x 64 to 15360 x 8640 Progressive : 64 x 64 to 1920 x 1440 - You can play JPEG files only. - Non-supported files are displayed in the form of predefined icon. <table><tr><th colspan="4">Only 3D Models</th></tr><tr><th></th><th>File Extensions</th><th>Item</th><th>Profile</th></tr><tr><td rowspan="2">2D</td><td rowspan="2">jpeg jpg jpe</td><td>supported file format</td><td> - SOF0: baseline - SOF1: Extend Sequential - SOF2: Progressive </td></tr><tr><td>photo size</td><td> - Min: 64 X 64 - Max-Normal Type: 15360 (W) X 8640 (H) - Progressive Type: 1920 (W) X 1440 (H) </td></tr><tr><td rowspan="2">3D</td><td rowspan="2">mpo</td><td>supported file format</td><td>mpo</td></tr><tr><td>photo size</td><td> 4:3 size: 3,648 X 2,736 2,592 X 1,944 2,048 X 1,536 3:2 size: 3,648 X 2,432 </td></tr></table>	Only 3D Models					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	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
Only 3D Models																					
	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	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 32 to 320 - Sampling rate MPEG1 Layer3 : 32 kHz, 44.1 kHz, 48 kHz - Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz - Sampling rate MPEG2.5 Layer3 : 8 kHz, 11.025 kHz, 12 kHz																				

Viewing movies

(Except for 50PV250N, 50PT250N)

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

- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Movie List** and press **OK**.
- 3 Select **Drive1** to access the connected USB storage device.
- 4 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 5 Press the Navigation buttons to scroll to a file you want and press **OK**.



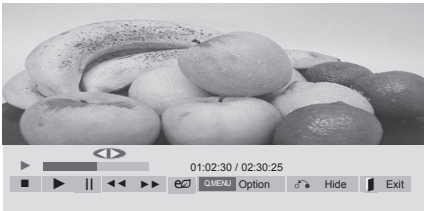
Menu	Description
Play Marked	Play the selected movie file. Once a movie file finishes playing, the next selected one will be played automatically.
Mark All	Mark all movie files on the screen.
Unmark All	Deselect all marked movie files.
Exit Mark Mode	Exit the Mark Mode.

6 Play a movie.

NOTE

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

7 Control playback by using the following buttons.



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

Tips for using playing video files

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920x1080@25/30P or 1280x720@50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920X1080@25/30P or 1280x720@50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- Max bitrate of playable movie file is 20 Mbps. (only, Motion JPEG : 10 Mbps)
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A video file more than 30 GB in file size is not supported for playback. The file size limit is dependent on the encoding environment.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- Files encoded with GMC(Global Motion Compensation) may not be played.
- When you are watching the movie by Movie List function, you can adjust an image by Energy Saving and AV Mode key on the remote control. User setup for each image mode does not operate.

Video options

- 1 Press **Q. MENU** to access the **Pop-Up** menus.
- 2 Press the Navigation buttons to scroll to **Set Video Play.**, **Set Video.** or **Set Audio.** and press **OK**.

 NOTE

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

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

- 1 Press the Navigation buttons to scroll to show the **Picture Size**, **Audio Language**, **Subtitle Language** or **Repeat**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Menu	Description
Picture Size	Selects your desired picture format during movie play.
Audio Language	Changes the Language Group of the audio during movie play. Files with a single audio track cannot be selected.
Subtitle Language	Turn on/off the subtitle.
Language	Activated for SMI subtitle and can select the language within the subtitle.
Code Page	Can select the font for subtitle. When set to default, same font as general menu will be used.

Sync	Adjusts the time synchronisation of the subtitle from -10 secs to +10 secs by steps of 0.5 secs during movie play.
Position	Changes the position of the subtitle either up or down during movie play.
Size	Selects your desired Subtitle size during movie play.
Repeat	Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. Even when the repeated playback is turned off, it can run the playback if the file name is similar to the previous file.

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

 NOTE

- Only 10,000 of sync blocks can be supported within the subtitle file.
- When playing a video, you can adjust the Picture Size by pressing the **RATIO** button.

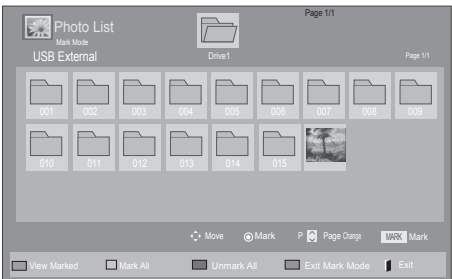
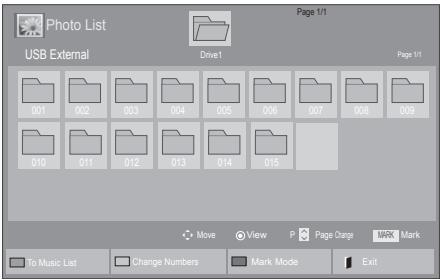
When you select the **Set Video**,

- 1 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.68)

When you select the **Set Audio**,

- 1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.73)

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



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

Viewing photos

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

- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Photo List** and press **OK**.
- 3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.
- 4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

- 6 View photos.



NOTE

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

Using photo options

Use the following options while viewing photos.



Options

Number of selected photos

Option	Description
Slideshow	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. To set a slideshow speed, select Option .
BGM	Turns the background music on or off. To set the background music folder, select Option . You can adjust Option by Q.MENU or Home button on the remote control.
⤵ (Rotate)	Rotates photos clockwise (90°, 180°, 270°, 360°). NOTE The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
Q	View the photo by zoom in 2, 4 times.
ENERGY SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.

Option

- Slide Speed:** Selects a slideshow speed (**Fast**, **Medium**, **Slow**).
- BGM:** Selects a music folder for the background music.



NOTE

- You cannot change the music folder while the background music is playing.
- You can only select the MP3 folder saved on the device that currently displays the photo.

Hide

Hides the option window.
To display the options, press **OK**.

EXIT

Return to **Photo List**.

Photo options

- Press **Q. MENU** or **Home** to show the **Option** menus.
- Press the Navigation buttons to scroll to **Set Photo View.**, **Set Video.** or **Set Audio.** and press **OK**.



NOTE

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

When you select the **Set Photo View**,

- Press the Navigation buttons to scroll to select **Slide Speed** or **BGM**.
- Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Video**,

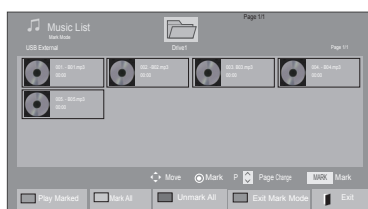
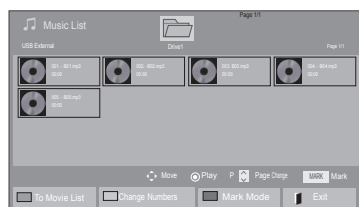
- 1 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.68)

When you select the **Set Audio**,

- 1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.73)

Listening to music

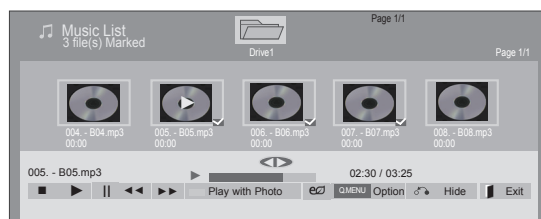
- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Music List** and press **OK**.
- 3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.
- 4 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 5 Press the Navigation buttons to scroll to a file you want and press **OK**.



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

- 6 Play music.

- 7 Control playback by using the following buttons.



Button	Description
	Stops playback
	Plays a music file
	Pauses or resumes playback
	Skips to the next file
	Skips to the previous file
or	When playing, When you press the button, the previous music file will be played. When you press the button, the next music file will be played.
Green button	Start playing the selected music files and then move to the Photo List .
ENERGY SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.
Home or Q.MENU	Show the Option menu.
Hide	Hides the option window. To display the options, press OK .
EXIT	When you press the EXIT button while the Music player is displayed, only the music will be stopped and the player will not return to normal TV viewing. When you press the EXIT button while the music is stopped or while the music player is hidden, the player will return to normal TV viewing.
< or >	When using the < or > button during playback a cursor indicating the position can be played.

Tips for playing music files

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

! NOTE

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



Music options

- 1 Press **Q. MENU** to access the **Pop-Up** menus.
- 2 Press the Navigation buttons to scroll to **Set Audio Play.** or **Set Audio.** and press **OK**.

! NOTE

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

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

- 1 Press the Navigation buttons to scroll to select the **Repeat** or **Random**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

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

- 1 Press the Navigation buttons to scroll to select the **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.(See p.73)

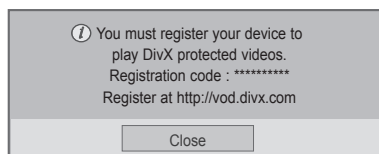
DivX® VOD Guide

(Except for 50PV250N, 50PT250N)

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.

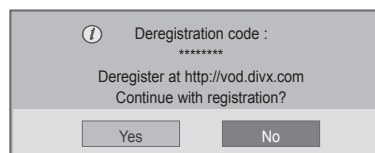
- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.
- 3 Press the Blue button.
- 4 Press the Navigation buttons to scroll to **DivX VOD Registration** and press **OK**.
- 5 View the registration code of your TV.
- 6 When you are finished,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



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



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

! NOTE

- Movie files are supported as follows
Resolution : under 1920x1080 WxH pixels
Frame rate : under 30 frames/sec(1920x1080), under 60 frames/sec(under 1280x720)
- Video Codec : MPEG 1, MPEG 2, MPEG 4, H.264/AVC, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1, Xvid 1.10-beta2, JPEG, VC1, Sorenson H.263/H.264.

! NOTE

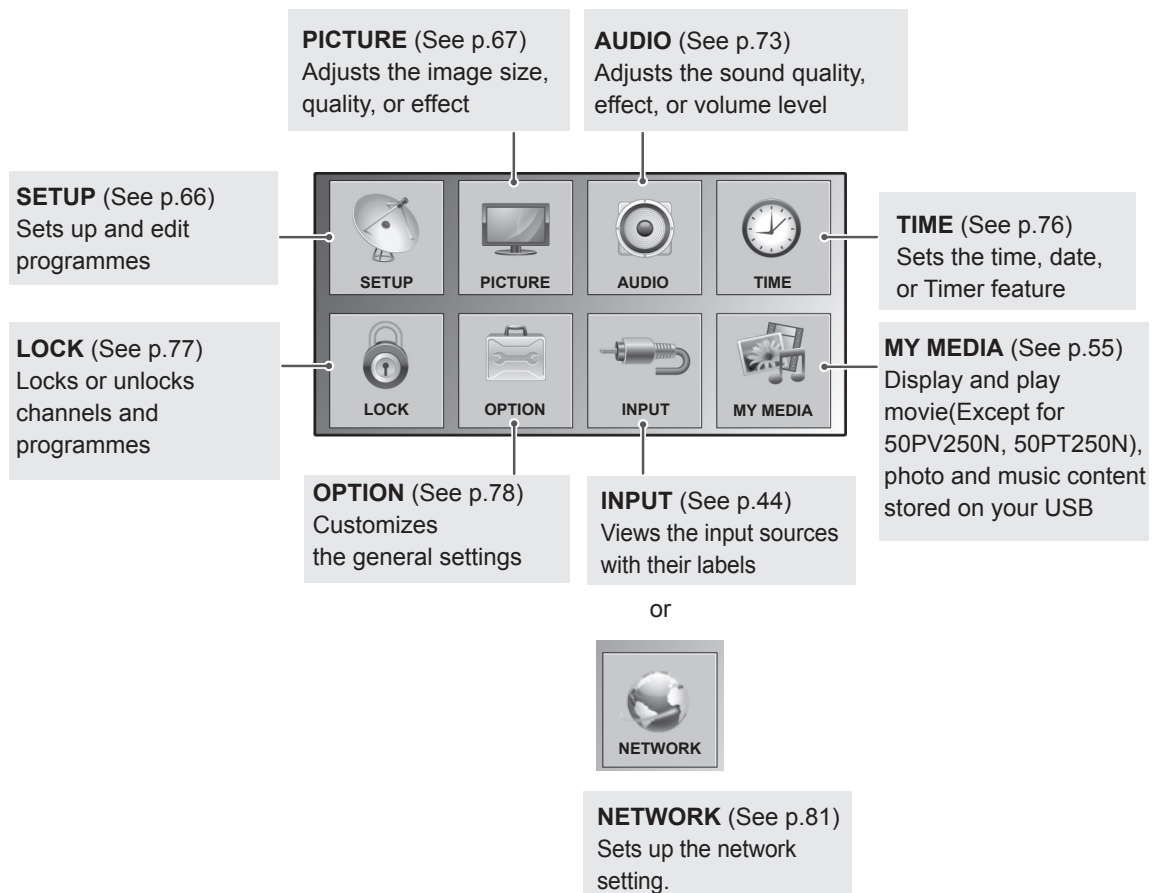
- Once the deregistration is executed, you must register your device again to see DivX® VOD contents.

CUSTOMIZING TV SETTINGS

Accessing main menus

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.

- Image shown may differ from your TV.

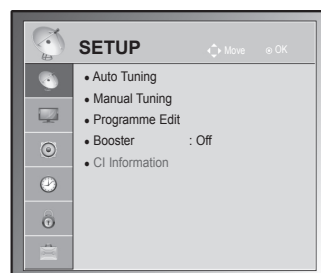


Customizing settings

SETUP settings

- Image shown may differ from your TV.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.



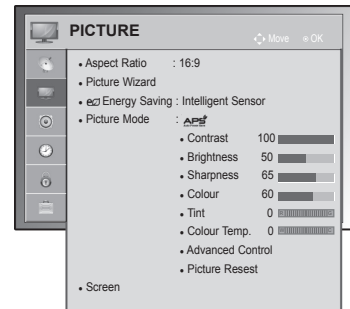
The available Programme settings are described in the following:

Setting	Description
Auto Tuning	Tunes and stores all available programmes through antennas or cable inputs (See p.31).
Manual Tuning	Tunes and stores the programmes you want manually (See p.34).
Programme Edit	Edits programmes. (See p.36).
Booster	Sets to the optimised sensitivity depending on the signal reception. (See p.36)
CI information	Enables you to watch some encrypted services (pay services).(See p.38).
Cable DTV Setting (In Cable 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. After changing Service Operator , a warning window saying that channel map will be deleted when OK button is pressed or Close is selected, and a Auto-tuning pop-up window appears when 'YES' is selected.(See p.33).

PICTURE settings

- Image shown may differ from your TV.

- Press **Home** to access the main menus.
- Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 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).	
Picture Wizard	Adjusts the image quality and calibrates the screen by following the on-screen instructions. The customized options will be saved as Expert1 in the Picture Mode .	
	Standard	Mode to set standard picture quality. (Black Level, White Level, Tint, Colour, Horizontal Sharpness, Vertical Sharpness, Backlight(Only LCD TV/LED LCD TV))
	Preferred	Mode to set user preferred picture quality rather than standard picture. (Black Level, White Level, Tint, Colour, Sharpness, Dynamic Contrast, Colour Temperature, Backlight(Only LCD TV/LED LCD TV))
	! NOTE • If you stop the setting before the final stage, the changes will not be applied. • If you use Picture Wizard, the Energy saving feature will turn off automatically. • 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.	
	Option	
	Intelligent sensor (Only Plasma TV) or Auto (Only LCD TV/LED LCD TV)	*This feature is not available for all models. The most suitable brightness is automatically adjusted according to the surrounding conditions.
	Off	The Energy Saving is off
	Minimum/Medium/Maximum	Selects the brightness level.
	Screen off	The screen turns off in 3 seconds.
	! NOTE • When you select Screen Off, the screen will be turned off in 3 seconds and Screen Off will start. • If you adjust "Energy Saving-Auto(Depending on model), Maximum", Backlight feature will not work. (LCD TV/LED LCD TV only) • If you adjust "Energy Saving-Intelligent Sensor", Sharpness, Colour, Colour Temperature feature will not work. (Plasma TV only) • When selecting Auto, Backlight is automatically adjusted through intelligent sensor according to the surrounding condition when intelligent sensor is in the TV. (LCD TV/LED LCD TV only)(Depending on model)	

Setting	Description
Picture Mode	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.
Mode	
Intelligent sensor (Only LCD TV)	Adjusts picture according to the surrounding conditions.
Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.
Standard	Adjusts the image for the normal environment.
 (Only Plasma TV)	Optimizes power consumption.
Cinema,  Cinema or  Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.
 Bright Room (Only Plasma TV)	This is the specification to optimize TV viewing in Bright Room.
Sport	Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
Game	Optimizes the video image for a fast gaming screen such as PCs or games.
Photo(Depending on model)	Optimizes the still image like a photo file in USB mode. » e.g.) when connecting the external device like a DSLR.
 Expert	Adjusts the detailed video image settings for video experts as well as general viewers.
 NOTE • Picture Mode adjusts the TV for the best picture appearance. Select the preset value in the Picture Mode menu based on the programme category. • When the Intelligent sensor function is on, the most suitable picture is automatically adjusted according to the surrounding conditions. • You can also adjust Picture Mode in the Q. Menu. •  (Auto Power Saving) : Maximize reducing the power consumption without hurting the picture quality. (Only Plasma TV) • If you adjust "Picture Mode- Cinema,  Bright Room", "Energy Saving-Intelligent Sensor, Minimum, Medium, Maximum" feature will not work. (Only Plasma TV) • If you adjust "Picture Mode- ", "Energy Saving-Off, Minimum, Medium, Maximum" feature will not work. (Only Plasma TV) »  Cinema or  Cinema(Only Plasma TV) :This is cinema quality mode to provide you the experience of watching a movie at home.The user will be able enjoy the best level of satisfactory screen quality in any movie without any separate adjustments.Cinema expresses the optimal screen quality when it is darkest. When selecting  Cinema,  Bright Room Aspect ratio changes to Just scan. »  Cinema(Thomlinson Holman 's Experiment)is the audio and video certification standard of THX established by George Lucas,who directed the movie Star Wars,and Thomlinson. This is the product to be certified in THX display area and guarantees screen quality that exceeds the display standard specification in both hardware and software.	

Setting	Description	
TruMotion (Only LCD TV/ LED LCD TV)	*This feature is not available for all models. It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source. This feature is disable in RGB-PC,HDMI-PC mode. If you enable “TruMotion”, noise may appear on the screen. If this occurs, set “TruMotion” to “Off”. If you select “Picture Mode-Game”, set “TruMotion” to “Off”.	
	Option	
	High	Provide smoother picture movement.
	Low	Provide smooth picture movement. Use this setting for standard use.
	Off	Turn off TruMotion Operation.
	User	User can adjust Judder and Blur level in TruMotion Operation, separately.
	Judder	Adjust noise of the screen.
	Blur	Adjust after-image of the screen.
SCREEN	Customizes the PC display options.	
	Option	
	Resolution	Selects a proper resolution when your PC uses.
	Auto Configure	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.

Basic image options

Setting	Description
Backlight (Only LCD TV/LED 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. • If you use the “Energy saving - Auto, Maximum”, Backlight will not be available. • Benefits of using Backlight - The electricity consumption is reduced by up to 60 %. - The black brightness is reduced. (As the black has greater depth, you can enjoy a better quality definition.) - You can adjust brightness with maintaining original signal resolution.
Contrast	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Colour	Adjusts intensity of all colours.
Tint	Adjusts the balance between red and green levels.
Colour Temp.	Set to warm to enhance hotter colours such as red, or set to cool to enhance cooler colours such as blue.
Advanced Control or Expert Control	Customizes the advanced options
Picture Reset	Restores the options of each mode to the factory default

**NOTE**

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

Advanced image options (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, green and white look more vivid.
Clear White	Makes the white area of the screen brighter and clearer.
Skin Colour	Adjusts skin colour of the picture so that user can set his favourite skin colour.
Noise Reduction	Reduces screen noise without compromising video quality.
Digital Noise Reduction	Reduces noise regarding MPEG compressed video.
Gamma	You can adjust brightness of dark area and middle gray level area of the picture. » Low: Make the dark and middle gray level areas brighter. » Medium: Express the original picture level. » High: Make the dark and middle gray level area darker.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: AV (NTSC-M), HDMI, Component or USB(Only Plasma TV). » Low: The reflection of the screen gets darker. » High: The reflection of the screen gets brighter. » Auto : Sets black level of the screen to High or Low automatically according to the input signal level.
Eye Care	Adjusts the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is disable in " Picture Mode-Vivid, Cinema, Expert1, Expert2, Intelligent Sensor. "
Real Cinema or Film Mode	Makes video clips recorded in film look more natural by eliminating judder effect. DVD and Blu-ray movies are filmed at 24 frames per second (fps). With LG RealCinema, every frame is consistently processed 5 times in 1/24 of a second producing 120 fps with TruMotion or 2 times in 1/24 of a second producing 48 fps without TruMotion, thus totally eliminating the judder effect.
Colour Gamut	Maximizes the utilization of colour to increase colour quality. » Standard: Displays standard set of colours. » Wide: Increase number of colours used.
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video.
XVYCC (available in Cinema and Expert modes)	*This feature is not available for all models. This is the function to express richer colours. This feature represents rich colours as much as a conventional video signal. This function is enabled in " Picture Mode - Cinema, Expert " when xvYCC signal is inputted through HDMI.
Expert Pattern (available in Expert mode)	This is the pattern necessary 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.

Advanced image options (Depending on model)

Setting	Description		
Colour Temperature	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 • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 5, 10, 15 - 100 Plasma TV. You can adjust Red, Green or Blue according to each setting. • Red/Green/Blue: The adjustment range is -50 - +50. c. Apply to all inputs
	LCD/LED LCD TV		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 - 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, then 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 - +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 - +30. Red/Green/Blue/Yellow/Cyan, Magenta Tint: The adjustment range is -30 - +30. This feature is disable in RGB-PC and HDMI-PC mode.		

AUDIO settings

- Image shown may differ from your TV.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.



The available audio settings are described in the following.

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

Setting	Description	
Digital Audio Out	This function allows you to select your preferred Digital Audio Output. When Dolby Digital is available, selecting Auto in the Digital Audio Out menu will set SPDIF(Sony Philips Digital InterFace) output to Dolby Digital. If Auto is selected in the digital audio out menu when Dolby Digital is not available, SPDIF output will be PCM(Pulse-code modulation). Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.	
	Item	Digital Audio output
	Auto	PCM Dolby Digital Dolby Digital Plus
	PCM	PCM
TV Speaker	Turns on the internal speaker of the TV when using an external Hi-Fi system. You can use the TV speaker as an audio output device even if there is no video input.  NOTE - When the TV speaker is turned off while the Simplink home theater is operating, the sound output automatically switches to the Home theater speaker, but when the TV speaker is turned on, the sound output the TV speaker. - Some menus in AUDIO are disabled when TV Speaker is set to Off.	
DTV Audio Setting (In Digital Mode only)	When different audio types exist in an input signal, this function allows you to select the audio type you want.	
	Mode	
	Auto	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)
	Dolby Digital+, Dolby Digital, MPEG	Allows users to select the audio type they want. ex) If MPEG is selected, MPEG is always outputted. If MPEG is not supported, another audio type is set in that order.
See p.78 (Audio Language Selection)		

Stereo/Dual Reception (In Analogue Mode Only)

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

- 1 Press **Q. MENU** and press the Navigation to access the **Audio** or **Audio Language** and press **OK**.
- 2 Press the Navigation button to scroll to the sound output and press **OK**.

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

- **Mono sound selection**

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

- **Language selection for dual language broadcast**

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

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

Nicam Reception (In Analogue Mode Only)

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

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

- 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

• Image shown may differ from your TV.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **TIME** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.



The available time settings are described in the following.

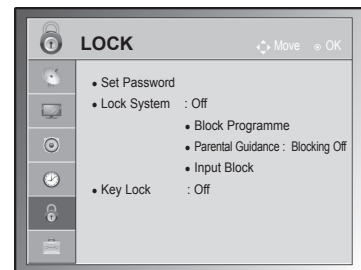
Setting	Description										
Clock	Sets the time, date, time zone, and daylight-saving time feature. The time will be set automatically according to a digital channel signal which includes time information provided by the broadcasting station. If not, set the time and date manually.  NOTE • The TV time 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. <table><tr><th>Time Zone</th></tr><tr><td>Magadan, Kamchatka</td></tr><tr><td>Vladivostok</td></tr><tr><td>Yakutsk</td></tr><tr><td>Irkutsk</td></tr><tr><td>Krasnoyarsk</td></tr><tr><td>Omsk</td></tr><tr><td>Yekaterinburg</td></tr><tr><td>Moscow, Samara</td></tr><tr><td>Kaliningrad</td></tr></table> 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.	Time Zone	Magadan, Kamchatka	Vladivostok	Yakutsk	Irkutsk	Krasnoyarsk	Omsk	Yekaterinburg	Moscow, Samara	Kaliningrad
Time Zone											
Magadan, Kamchatka											
Vladivostok											
Yakutsk											
Irkutsk											
Krasnoyarsk											
Omsk											
Yekaterinburg											
Moscow, Samara											
Kaliningrad											

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. (Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C) - If you set both Off time and On time features to the same time, the Off time feature overrides 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

- Image shown may differ from your TV.

- Press **Home** to access the main menus.
- Press the Navigation buttons to scroll to **LOCK** and press **OK**.
- Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **BACK**.
- When you are finished, press **EXIT**.



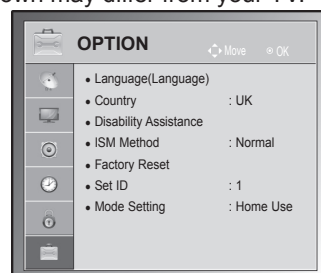
The available lock settings are described in the following.

Setting	Description
Lock System	Activates or deactivates the lock system.
Set Password	Changes the 4-digit password. The default PIN is "0 0 0 0". 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.
Block Programme	Blocks the programmes that contain inappropriate contents for children by pressing the Green button. The Lock icon appears in front of the blocked programmes. The programmes can be selected but the screen blank and the audio is muted. To watch a locked channel, enter the password. It is available to use this function in Lock System "On"
Parental Guidance (In Digital Mode only)	This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate. A password is required to gain access to this menu. This set is programmed to remember which option it was last set to even if you switch the set off. Prevents children from watching certain adult's TV programmes, according to the ratings limit set. Enter a password to watch a blocked programme. Rating differs by country.
Input Block	Block the input sources. It is available to use this function in Lock System "On"
Key Lock	Locks or unlocks the buttons on the TV.

OPTION settings

- Image shown may differ from your TV.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.



The available general settings are described in the following.

Setting	Description															
Language	Selects a language for the display or audio.															
	Option															
	Menu Language Select your desired language.															
	Audio Language The Audio function allows selection of a preferred language. If audio data in a selected language is not broadcast, the default language audio will be played.															
	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>MPEG</td><td>MPEG Audio</td></tr> </table>	Display	Status	N.A	Not Available	MPEG	MPEG Audio	D	Dolby Digital Audio		Audio for "Visual Impaired"	ABC	Audio for "Hearing Impaired"	D+	Dolby Digital Plus Audio	MPEG
Display	Status															
N.A	Not Available															
MPEG	MPEG Audio															
D	Dolby Digital Audio															
	Audio for "Visual Impaired"															
ABC	Audio for "Hearing Impaired"															
D+	Dolby Digital Plus Audio															
MPEG	MPEG Audio															
Subtitle Language	Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.															
	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>TX</td><td>Teletext Subtitle</td></tr> <tr> <td>ABC</td><td>Subtitle for "Hard of Hearing"</td></tr> </table>	Display	Status	N.A	Not Available	TX	Teletext Subtitle	ABC	Subtitle for "Hard of Hearing"							
Display	Status															
N.A	Not Available															
TX	Teletext Subtitle															
ABC	Subtitle for "Hard of Hearing"															
Text Language	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.															
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.																

Setting	Description	
Country	Selects a desired country.	
	 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.	
Disabled Assistance (In Digital Mode only)	Option	
	Hard of Hearing	This function is for the hearing impaired.
	Audio Description	This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio. When Audio Description On is selected, basic audio and Audio Description are provided only for those programmes that have Audio Description included.
		Volume Changes the Audio Description volume
		Beep Beeps when a programme with Audio Description information is selected
ISM Method (Only Plasma TV)	A frozen or still picture displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for prolonged periods.	
	Option	
	White Wash	White wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear entirely with White Wash.
	Orbiter	Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.
	Colour Wash	The colour block with the screen moved a little and the white pattern are alternately displayed. It is difficult to sense the afterimage occurred while the temporary afterimage is removed and the colour pattern is operating.

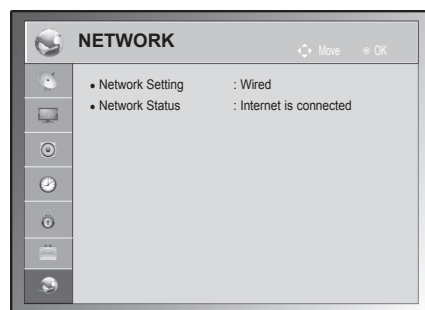
Setting	Description					
Power Indicator (Only LCD/LED LCD TV)	Sets to turn on or off the indicator light on the TV. If you select 3D mode, Power Indicator is turned off automatically.					
	Option					
	<table><tr><td>Standby Light</td><td>Set to turn on or off the indicator light in Standby mode.</td></tr><tr><td>Power Light</td><td>Set to turn on or off the indicator light when you turn on the power.</td></tr></table>	Standby Light	Set to turn on or off the indicator light in Standby mode.	Power Light	Set to turn on or off the indicator light when you turn on the power.	
Standby Light	Set to turn on or off the indicator light in Standby mode.					
Power Light	Set to turn on or off the indicator light when you turn on the power.					
Data Service (only in Ireland.)	This function allow users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time.					
Factory Reset	This function initializes all settings.  NOTE • In Lock System “On”, if you forget your password, press ‘0’, ‘3’, ‘2’, ‘5’ on the remote control handset.					
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					
	<table><tr><td>Home Use</td><td>Selects it for the home environment.</td></tr><tr><td>Store Demo</td><td>Selects it for the retail environment.</td></tr><tr><td>Demo Mode</td><td>Sets to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons.</td></tr></table>  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.	Home Use	Selects it for the home environment.	Store Demo	Selects it for the retail environment.	Demo Mode
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.					

NETWORK Settings

(Depending on model)

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.

- Image shown may differ from your TV.



The available network settings are described in the following.

Setting	Description
Network Setting	Configure the network settings (See p.53).
Network Status	Display the network status (See p.54).

MAKING CONNECTIONS

Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.

Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.



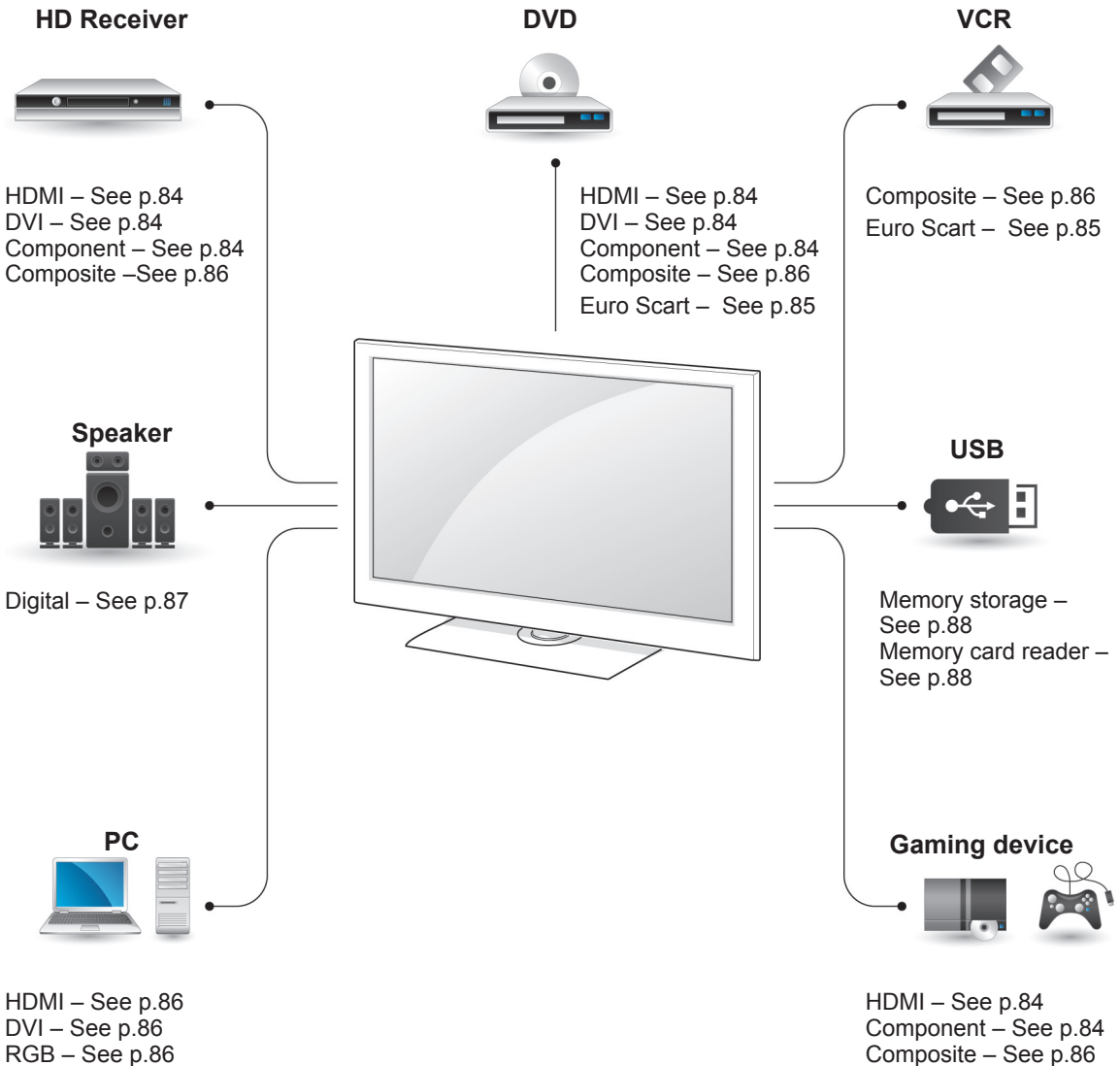
NOTE

- 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.

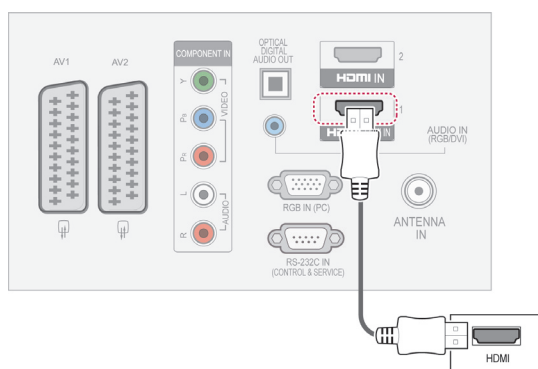
- This section on **MAKING CONNECTIONS** mainly uses diagrams for the 50/60PZ55** models.
- Image shown may differ from your TV.

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.

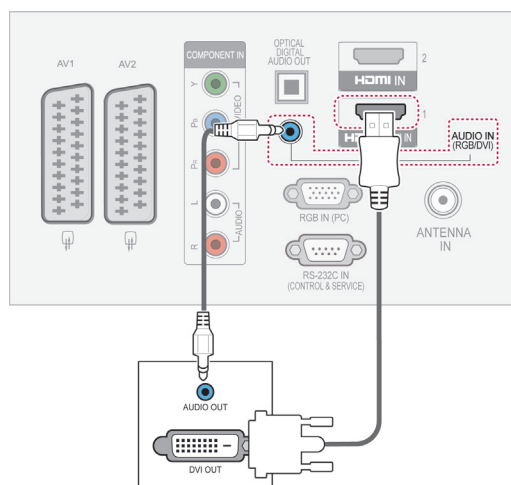
HDMI connection

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.



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.

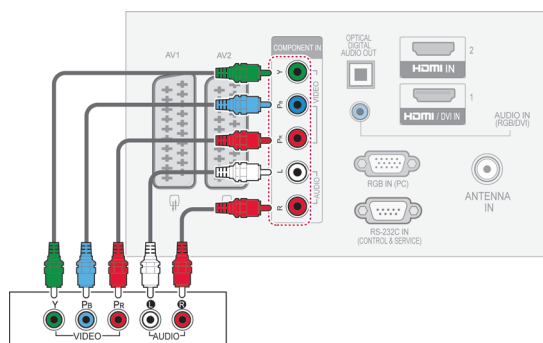


Component connection

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

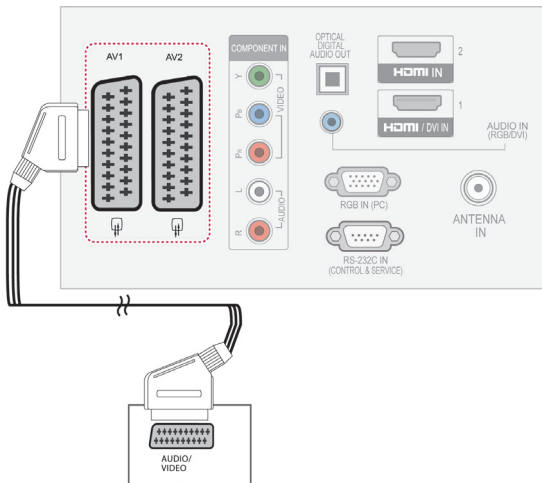
- The TV can receive video and audio signals simultaneously when using an HDMI cable.
- If the DVD does not support Auto HDMI, you must set the output resolution appropriately.
- Check that your HDMI cable is High Speed HDMI Cable. If the HDMI cables are not High Speed HDMI Cable, flickering or no screen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



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.

(Only PLASMA TV)



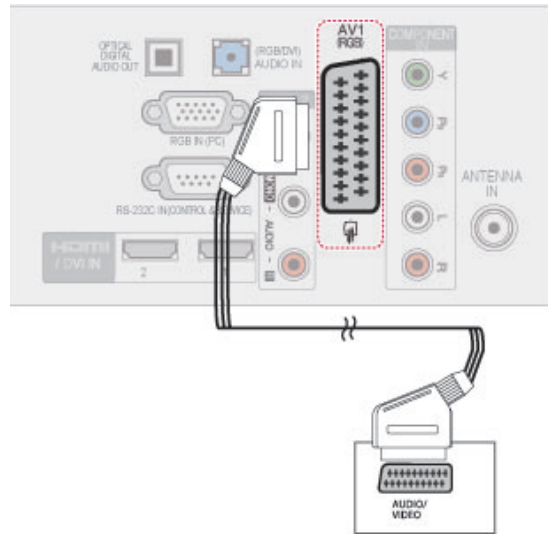
Current input model \ Output Type	AV1 (TV Out ¹)	AV2 (Monitor Out ²)
Digital TV	X	O
Analogue TV, AV	Analogue TV	O
Component / RGB	Analogue TV	X
HDMI	Analogue TV	X

- 1 TV Out : Outputs analogue TV signals.
- 2 Monitor Out: Outputs the current screen image.

! NOTE

- Any Euro scart cable used must be signal shielded.
- When watching digital TV in 3D imaging mode, TV/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)

(Only LCD / LED LCD TV)



Current input model \ Output Type	AV1 (TV Out ¹)
Digital TV	Digital TV
Analogue TV, AV	Analogue TV
Component / RGB	Analogue TV
HDMI	Analogue TV

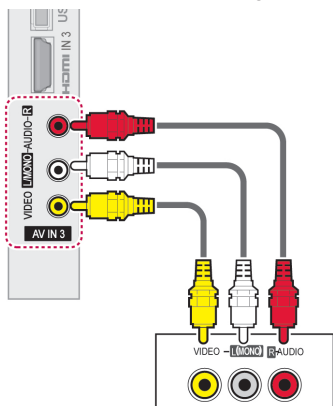
- 1 TV Out : Outputs Analogue TV or Digital TV signals.

! NOTE

- Any Euro scart cable used must be signal shielded.
- When watching digital TV in 3D imaging mode, TV out signals cannot be output through the SCART cable. (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

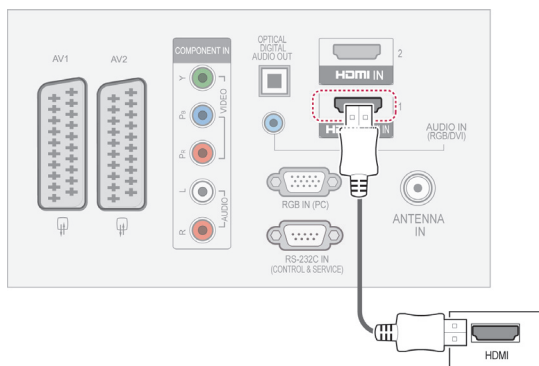


NOTE

- It is recommended to use the TV set with the HDMI connection for the best image quality.

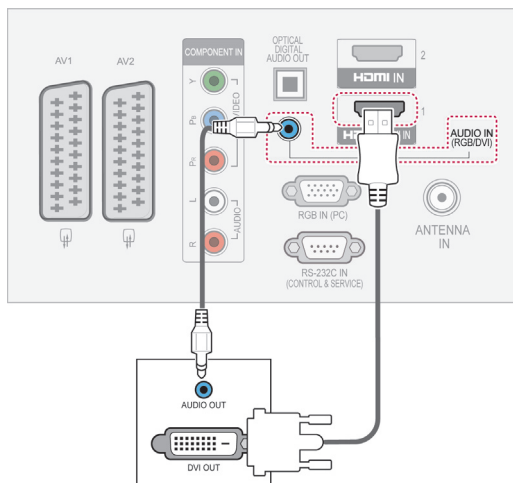
HDMI connection

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.



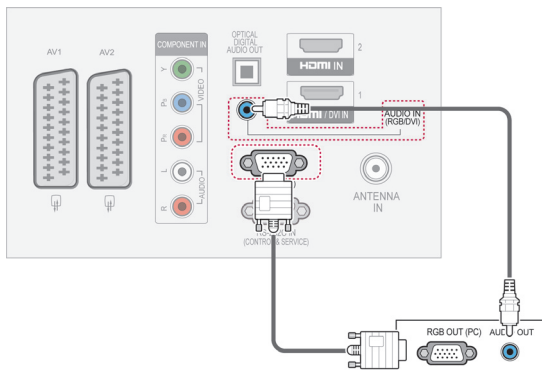
DVI to HDMI connection

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.



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

- Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- We recommend using 1920x1080, 60 Hz(Except for 42/50PT****, 42/50PW****, 22/26/32LK33**, 19/26/32LV25**, 19/22LV23**), 1024x768, 60 Hz(Only 42/50PT****, 42/50PW****) 1360 x768, 60 Hz(Only 22/26/32LK33**, 19/26/32LV25**, 19/22LV23**) 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

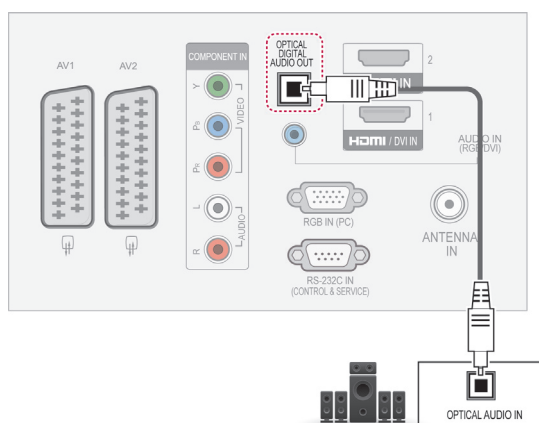
Use an external audio system instead of the built-in speaker.

! NOTE

- If you use an external audio device instead of the built-in speaker, set the TV speaker feature to off (See p.74).

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.



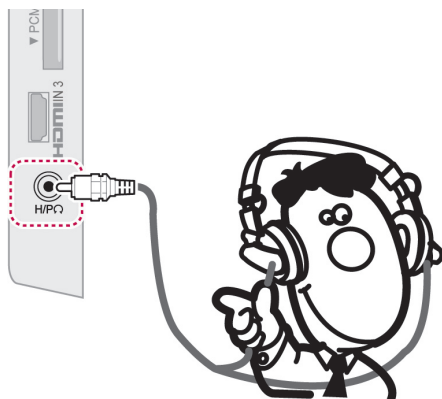
! NOTE

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

Headphone connection

(Except for 42/50PT25**, 50/60PV25**, 42/50PT35**, 50PV35**, 50/60PZ25**, 42/50PW45**, 50/60PZ55**, 42/50PT45**)

Transmits the headphone signal from the TV to an external device. Connect the external device and the TV with the headphone as shown on the following illustration.

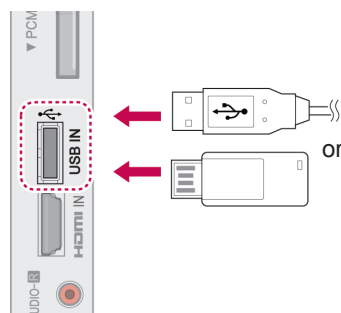


! NOTE

- 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

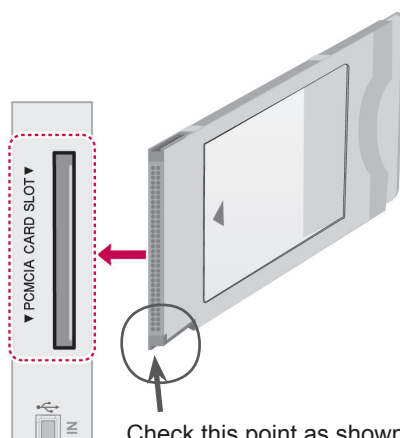
Connecting to a USB

Connect a USB storage device such as a USB flash memory, external hard drive or a USB memory card reader to the TV and access the My media menu to use various multimedia files. See "Connecting USB storage devices" on p.55 and see "Browsing files" on p.56.



Connecting to a CI Module

View the encrypted (pay) services in digital TV mode.
See p.38.



Check this point as shown and insert the CI Module.

! NOTE

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

SIMPLINK connection

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

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

In wireless external output, SIMPLINK function is not supported.

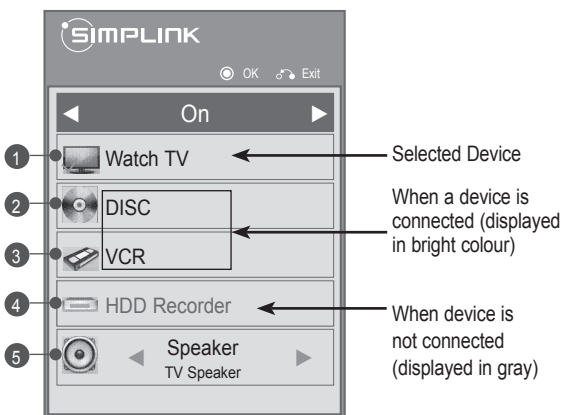
NOTE

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

Activating the SIMPLINK feature

- 1 Press SIMPLINK to access the SIMPLINK menus.
- 2 Press the Navigation buttons to scroll to **On**.
- 3 Press the Navigation buttons to scroll to one of the devices and press **OK**.

- Image shown may differ from your TV.



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

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

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

NOTE

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

TELETEXT

- This feature is not available in all countries. Teletext is a free service broadcast by most TV stations which gives up-to-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** $\wedge$ $\vee$ button can be used to select the preceding or following page.

Top Text

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

Block / Group / Page Selection

- 1 With the blue button you can progress from block to block.
- 2 Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3 With the green button you can proceed to the next existing page with automatic overflow to the next group..
- 4 Alternatively the **P** $\wedge$ button can be used. The red button returns to the previous selection. Alternatively the **P** $\vee$ 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.

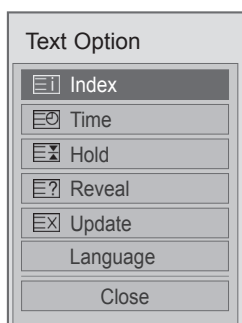
Page selection

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

Special Teletext Function

Press the **T. OPT** button and then use Navigation buttons to select the **Text Option** menu.

- Image shown may differ from your TV.



Index

Select the each index page.

Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.

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

Hold

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages.

The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.

Reveal

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

Update

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

Language(dependent on model)

In digital mode, Displays the currently available language information and you can change the desired Teletext language.

NOTE

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

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** $\wedge$ $\vee$ button to select a digital service which broadcasts digital teletext.
- 2 Follow the indications on digital teletext and move onto the next step by pressing **TEXT**, **OK**, **Navigation button**, **Red**, **Green**, **Yellow**, **Blue** or **NUMBER** buttons and etc.
- 3 To change digital teletext service, select a different service by the numeric or **P** $\wedge$ $\vee$ button.

Teletext in digital service



- 1 Press the numeric or **P** $\wedge$ $\vee$ button to select a certain service which broadcasts digital teletext.
- 2 Press the **TEXT** or coloured button to switch on teletext.
- 3 Follow the indications on digital teletext and move onto the next step by pressing **OK**, **Navigation button**, **Red**, **Green**, **Yellow**, **Blue** or **NUMBER** buttons and so on.
- 4 Press the **TEXT** or colour button to switch off digital teletext and return to **TV** viewing.

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

MAINTENANCE

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

Cleaning your TV



CAUTION

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

Screen and frame

To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.

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



CAUTION

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

Cabinet and stand

To remove dust or light dirt, wipe the cabinet with a dry, clean, and soft cloth.

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



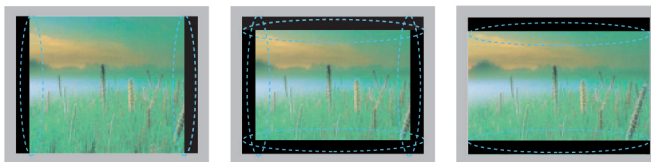
CAUTION

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

Power cord

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

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



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

TROUBLESHOOTING

General

Problem	Resolution
Cannot control the TV with the remote control.	• Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).
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 center in your local area.
Cannot connect external devices.	• Refer to the “Connection overview” (See p.83) 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” (See p.77). • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.(Except for 22/26/32LK335C, 32/37/42LK455C, 19/22/26/32LV255C, 32/37/42/47LV355C, 32/37/42LK469C, 32/37/42/47LV369C, 22/26/32LK336C, 32/37/42LK456C)

Audio

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

Video

Problem	Resolution
An image displays in black and white or the colour quality is poor.	- Adjust the colour setting in the PICTURE menu (See p.67). - Keep a sufficient distance between this product and other electronic products. - Scroll to other channels. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.
The power is on but the screen appears extremely dark.	Adjust the brightness and contrast in the PICTURE menu (See p.67).
"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 PICTURE menu (See p.67). - Check if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution using the display settings on the external device.
Thin lines appear in the background of the screen.	Check the video cable connections.
Horizontal noises appear or characters blur.	Adjust the Phase setting in the PICTURE menu. Refer to the "SCREEN" (See p.67).
The reception on some channels is poor	- Scroll to other channels. There may a problem with the broadcast. - The station signal may be weak. Aim the antenna to the proper direction. - Check if there is local interference such as an electrical appliance or power tool.

SPECIFICATIONS

MODELS		42PT25**	50PT25**
		42PT250-ZA / 42PT250N-ZA 42PT250A-ZA / 42PT250K-ZA 42PT250-ZG, 42PT250N-ZG 42PT250A-ZG, 42PT250K-ZG	50PT250-ZA / 50PT250N-ZA 50PT250A-ZA / 50PT250K-ZA 50PT250-ZG / 50PT250N-ZG 50PT250A-ZG / 50PT250K-ZG
Dimensions (W x H x D)	With stand	987.6 mm x 662.8 mm x 230.5 mm	1171.9 mm x 770.9 mm x 289.8 mm
	Without stand	987.6 mm x 608.9 mm x 52.5 mm	1171.9 mm x 712.2 mm x 52.5 mm
Weight	With stand	21.4 kg	29.5 kg
	Without stand	19.9 kg	27.2 kg
MODELS		50PV25**	60PV25**
		50PV250-ZA / 50PV250N-ZA 50PV250A-ZA / 50PV250K-ZA	60PV250-ZA / 60PV250N-ZA 60PV250A-ZA / 60PV250K-ZA
Dimensions (W x H x D)	With stand	1171.9 mm x 770.9 mm x 289.8 mm	1390.8 mm x 905.2 mm x 334.7 mm
	Without stand	1171.9 mm x 712.2 mm x 52.5 mm	1390.8 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
MODELS		42PT35**	50PT35**
		42PT350-ZD / 42PT350N-ZD 42PT350A-ZD / 42PT350K-ZD 42PT351-ZC / 42PT351A-ZC 42PT351N-ZC / 42PT351K-ZC 42PT352-ZB / 42PT352A-ZB 42PT352N-ZB / 42PT352K-ZB 42PT353-ZA / 42PT353A-ZA 42PT353N-ZA / 42PT353K-ZA 42PT350-ZK / 42PT350N-ZK 42PT350A-ZK / 42PT350K-ZK 42PT351-ZJ / 42PT351A-ZJ 42PT351N-ZJ / 42PT351K-ZJ 42PT352-ZH / 42PT352A-ZH 42PT352N-ZH / 42PT352K-ZH 42PT353-ZG / 42PT353A-ZG 42PT353N-ZG / 42PT353K-ZG	50PT350-ZD / 50PT350N-ZD 50PT350A-ZD / 50PT350K-ZD 50PT351-ZC / 50PT351A-ZC 50PT351N-ZC / 50PT351K-ZC 50PT352-ZB / 50PT352A-ZB 50PT352N-ZB / 50PT352K-ZB 50PT353-ZA / 50PT353A-ZA 50PT353N-ZA / 50PT353K-ZA 50PT350-ZK / 50PT350N-ZK 50PT350A-ZK / 50PT350K-ZK 50PT351-ZJ / 50PT351A-ZJ 50PT351N-ZJ / 50PT351K-ZJ 50PT352-ZH / 50PT352A-ZH 50PT352N-ZH / 50PT352K-ZH 50PT353-ZG / 50PT353A-ZG 50PT353N-ZG / 50PT353K-ZG
Dimensions (W x H x D)	With stand	991.8 mm x 667.0 mm x 230.5 mm	1176.1 mm x 774.7 mm x 289.8 mm
	Without stand	991.8 mm x 613.8 mm x 52.5 mm	1176.1 mm x 716.5 mm x 52.5 mm
Weight	With stand	21.5 kg	29.6 kg
	Without stand	20.0 kg	27.3 kg
MODELS		50PV35**	
		50PV350-ZD / 50PV350A-ZD 50PV350T-ZD / 50PV350N-ZD	
Dimensions (W x H x D)	With stand	1176.1 mm x 774.7 mm x 289.8 mm	
	Without stand	1176.1 mm x 716.5 mm x 52.5 mm	
Weight	With stand	29.9 kg	
	Without stand	27.6 kg	
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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		50PZ25**	60PZ25**
		50PZ250-ZB / 50PZ250N-ZB 50PZ250A-ZB / 50PZ250T-ZB	60PZ250-ZB / 60PZ250N-ZB 60PZ250A-ZB / 60PZ250T-ZB
Dimensions (W x H x D)	With stand	1171.9 mm x 770.9 mm x 289.8 mm	1390.8 mm x 905.2 mm x 334.7 mm
	Without stand	1171.9 mm x 712.2 mm x 52.5 mm	1390.8 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
MODELS		42PW45**	50PW45**
		42PW450-ZA / 42PW450N-ZA 42PW450A-ZA / 42PW450T-ZA 42PW451-ZD / 42PW451N-ZD 42PW451A-ZD / 42PW451T-ZD	50PW450-ZA / 50PW450N-ZA 50PW450A-ZA / 50PW450T-ZA 50PW451-ZD / 50PW451N-ZD 50PW451A-ZD / 50PW451T-ZD
Dimensions (W x H x D)	With stand	984.0 mm x 662.7 mm x 230.5 mm	1168.7 mm x 768.3 mm x 289.7 mm
	Without stand	984.0 mm x 608.9 mm x 52.5 mm	1168.7 mm x 712.2 mm x 52.5 mm
Weight	With stand	21.5 Kg	29.5 Kg
	Without stand	20.0 Kg	27.2 Kg
MODELS		50PZ55**	60PZ55**
		50PZ550-ZA / 50PZ550N-ZA 50PZ550A-ZA / 50PZ550T-ZA 50PZ551-ZC / 50PZ552-ZD	60PZ550-ZA / 60PZ550N-ZA 60PZ550A-ZA / 60PZ550T-ZA 60PZ551-ZC / 60PZ552-ZD
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
MODELS		42PT45**	50PT45**
		42PT450-ZB / 42PT450N-ZB 42PT450A-ZB / 42PT450K-ZB 42PT450-ZH / 42PT450N-ZH 42PT450A-ZH / 42PT450K-ZH	50PT450-ZB / 50PT450N-ZB 50PT450A-ZB / 50PT450K-ZB 50PT450-ZH / 50PT450N-ZH 50PT450A-ZH / 50PT450K-ZH
Dimensions (W x H x D)	With stand	984.0 mm x 662.7 mm x 230.5 mm	1168.7 mm x 768.3 mm x 289.7 mm
	Without stand	984.0 mm x 608.9 mm x 52.5 mm	1168.7 mm x 712.2 mm x 52.5 mm
Weight	With stand	21.5 Kg	29.5 Kg
	Without stand	20.0 Kg	27.2 Kg
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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		22LK33**	26LK33**
		22LK330-ZB / 22LK330A-ZB 22LK330N-ZB / 22LK331-ZA 22LK330U-ZB / 22LK335C-ZB 22LK330-ZH / 22LK330N-ZH 22LK330A-ZH / 22LK330U-ZH 22LK331-ZG / 22LK336C-ZB	26LK330-ZB / 26LK330A-ZB 26LK330N-ZB / 26LK331-ZA 26LK330U-ZB / 26LK335C-ZB 26LK330-ZH / 26LK330N-ZH 26LK330A-ZH / 26LK330U-ZH 26LK331-ZG / 26LK336C-ZB
Dimensions (W x H x D)	With stand	526.0 mm x 377.0 mm x 165.0 mm	663.0 mm x 484.0 mm x 207.0 mm
	Without stand	526.0 mm x 331.0 mm x 65.0 mm	663.0 mm x 423.0 mm x 79.9 mm
Weight	With stand	4.3 kg	7.6 kg
	Without stand	4.0 kg	6.5 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		55 W	100 W
MODELS		32LK33**	32LK43**
		32LK330-ZB / 32LK330A-ZB 32LK330N-ZB / 32LK331-ZA 32LK330U-ZB / 32LK335C-ZB 32LK330-ZH / 32LK330N-ZH 32LK330A-ZH / 32LK330U-ZH 32LK331-ZG / 32LK336C-ZB	32LK430-ZA / 32LK430N-ZA 32LK430A-ZA / 32LK430U-ZA 32LK430-ZG / 32LK430N-ZG 32LK430A-ZG / 32LK430U-ZG
Dimensions (W x H x D)	With stand	800.0 mm x 565.0 mm x 207.0 mm	799.0 mm x 555.0 mm x 207.0 mm
	Without stand	800.0 mm x 509.0 mm x 73.8 mm	799.0 mm x 506.0 mm x 73.5 mm
Weight	With stand	9.6 kg	9.4 kg
	Without stand	8.6 kg	8.4 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		120 W	120 W
MODELS		37LK43**	42LK43**
		37LK430-ZA / 37LK430N-ZA 37LK430A-ZA / 37LK430U-ZA 37LK430-ZG / 37LK430N-ZG 37LK430A-ZG / 37LK430U-ZG	42LK430-ZA / 42LK430N-ZA 42LK430A-ZA / 42LK430U-ZA 42LK430-ZG / 42LK430N-ZG 42LK430A-ZG / 42LK430U-ZG
Dimensions (W x H x D)	With stand	916.0 mm x 625.0 mm x 261.0 mm	1023.0 mm x 685.0 mm x 261.0 mm
	Without stand	916.0 mm x 575.0 mm x 77.4 mm	1023.0 mm x 635.0 mm x 76.6 mm
Weight	With stand	12.5 kg	15.1 kg
	Without stand	10.8 kg	13.5 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		160 W	180 W
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LK45**	37LK45**
		32LK450-ZB / 32LK450A-ZB 32LK450N-ZB / 32LK450U-ZB 32LK451-ZA / 32LK455C-ZB 32LK450-ZH / 32LK450A-ZH 32LK450U-ZH / 32LK450N-ZH 32LK451-ZG / 32LK455-ZA 32LK456C-ZB	37LK450-ZB / 37LK450A-ZB 37LK450N-ZB / 37LK450U-ZB 37LK451-ZA / 37LK455C-ZB 37LK450-ZH / 37LK450A-ZH 37LK450U-ZH / 37LK450N-ZH 37LK451-ZG / 37LK455-ZA 37LK456C-ZB
Dimensions (W x H x D)	With stand	795.0 mm x 568.0 mm x 207.0 mm	913.0 mm x 639.0 mm x 265.0 mm
	Without stand	795.0 mm x 504.0 mm x 73.5 mm	913.0 mm x 571.0 mm x 77.4 mm
Weight	With stand	9.6 kg	12.8 kg
	Without stand	8.5 kg	11.1 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		120 W	160 W
MODELS		42LK45**	32LK53**
		42LK450-ZB / 42LK450A-ZB 42LK450N-ZB / 42LK450U-ZB 42LK451-ZA / 42LK455C-ZB 42LK450-ZH / 42LK450A-ZH 42LK450U-ZH / 42LK450N-ZH 42LK451-ZG / 42LK455-ZA 42LK456C-ZB	32LK530-ZC / 32LK530N-ZC 32LK530A-ZC / 32LK530U-ZC 32LK530T-ZC
Dimensions (W x H x D)	With stand	1019.0 mm x 698.0 mm x 265.0 mm	797.0 mm x 555.0 mm x 207.0 mm
	Without stand	1019.0 mm x 631.0 mm x 76.5 mm	797.0 mm x 495.0 mm x 73.8 mm
Weight	With stand	15.1 kg	9.8 kg
	Without stand	13.4 kg	8.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		180 W	140 W
MODELS		42LK53**	47LK53**
		42LK530-ZC / 42LK530N-ZC 42LK530A-ZC / 42LK530U-ZC 42LK530T-ZC	47LK530-ZC / 47LK530N-ZC 47LK530A-ZC / 47LK530U-ZC 47LK530T-ZC
Dimensions (W x H x D)	With stand	1024.0 mm x 685.0 mm x 261.0 mm	1137.0 mm x 758.0 mm x 270.0 mm
	Without stand	1024.0 mm x 621.0 mm x 76.8 mm	1137.0 mm x 685.0 mm x 76.8 mm
Weight	With stand	15.5 kg	20.3 kg
	Without stand	13.9 kg	18.3 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		200 W	250 W
MODELS		47LK95**	
		47LK950-ZA / 47LK950N-ZA 47LK950A-ZA / 47LK950U-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	
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LK55**	42LK55**
		32LK550-ZA / 32LK550A-ZA 32LK550N-ZA / 32LK550U-ZA 32LK551-ZB / 32LK550T-ZA	42LK550-ZA / 42LK550A-ZA 42LK550N-ZA / 42LK550U-ZA 42LK551-ZB / 42LK550T-ZA
Dimensions (W x H x D)	With stand	795.0 mm x 568.0 mm x 207.0 mm	1019.0 mm x 698.0 mm x 265.0 mm
	Without stand	795.0 mm x 504.0 mm x 73.5 mm	1019.0 mm x 631.0 mm x 76.5 mm
Weight	With stand	9.2 kg	15.1 kg
	Without stand	8.1 kg	13.4 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		140 W	190 W
MODELS		19LV25**	22LV25**
		19LV2500-ZA / 19LV250N-ZA 19LV250A-ZA / 19LV250U-ZA 19LV255C-ZA / 19LV2500-ZG 19LV250A-ZG / 19LV250U-ZG 19LV250N-ZG	22LV2500-ZA / 22LV250N-ZA 22LV250A-ZA / 22LV250U-ZA 22LV255C-ZA / 22LV2500-ZG 22LV250A-ZG / 22LV250U-ZG 22LV250N-ZG
Dimensions (W x H x D)	With stand	455.2 mm x 354.5 mm x 150.7 mm	526.0 mm x 395.0 mm x 150.7 mm
	Without stand	455.2 mm x 313.1 mm x 40.9 mm	526.0 mm x 352.0 mm x 40.9 mm
Weight	With stand	2.8 kg	3.4 kg
	Without stand	2.5 kg	3.2 kg
Power requirement		DC 24 V, 1.4 A, 38 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz	DC 24 V, 1.7 A, 40 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz
MODELS		26LV25**	
		26LV2500-ZA / 26LV2540-ZE / 26LV250A-ZA / 26LV254A-ZE 26LV250N-ZA / 26LV254N-ZE / 26LV250U-ZA / 26LV254U-ZE 26LV255C-ZA / 26LV2500-ZG / 26LV250A-ZG / 26LV250U-ZG 26LV250N-ZG / 26LV2540-ZL	
Dimensions (W x H x D)	With stand	635.6 mm x 475.0 mm x 178.0 mm	
	Without stand	635.6 mm x 413.5 mm x 40.9 mm	
Weight	With stand	5.6 kg	
	Without stand	5.0 kg	
Power requirement		DC 24 V, 1.8 A, 50 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz	
MODELS		32LV25**	
		32LV2500-ZA / 32LV2540-ZE / 32LV250A-ZA / 32LV254A-ZE 32LV250N-ZA / 32LV254N-ZE / 32LV250U-ZA / 32LV254U-ZE 32LV255C-ZA / 32LV2500-ZG / 32LV250A-ZG / 32LV250U-ZG 32LV250N-ZG / 32LV2540-ZL	
Dimensions (W x H x D)	With stand	777.0 mm x 552.0 mm x 234.0 mm	
	Without stand	777.0 mm x 501.0 mm x 35.4 mm	
Weight	With stand	11.9 kg	
	Without stand	10.7 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
Power Consumption		70 W	
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LV35**	37LV35**
		32LV3500-ZA / 32LV3550-ZB 32LV350A-ZA / 32LV355A-ZB 32LV350N-ZA / 32LV355N-ZB 32LV350U-ZA / 32LV355U-ZB 32LV355T-ZC / 32LV355C-ZB 32LV3551-ZD / 32LV355T-ZJ 32LV3550-ZH / 32LV355A-ZH 32LV355U-ZH / 32LV355N-ZH 32LV3500-ZG / 32LV3551-ZK 32LV355C-ZD	37LV3500-ZA / 37LV3550-ZB 37LV350A-ZA / 37LV355A-ZB 37LV350N-ZA / 37LV355N-ZB 37LV350U-ZA / 37LV355U-ZB 37LV355T-ZC / 37LV355C-ZB 37LV3551-ZD / 37LV355T-ZJ 37LV3550-ZH / 37LV355A-ZH 37LV355U-ZH / 37LV355N-ZH 37LV3500-ZG / 37LV3551-ZK 37LV355C-ZD
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	13.5 kg
	Without stand	9.6 kg	11.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		80 W	100 W
MODELS		40LV35**	42LV35**
		40LV3550-ZB / 40LV355N-ZB 40LV355A-ZB / 40LV355U-ZB	42LV3500-ZA / 42LV3550-ZB 42LV350A-ZA / 42LV355A-ZB 42LV350N-ZA / 42LV355N-ZB 42LV350U-ZA / 42LV355U-ZB 42LV355T-ZC / 42LV355C-ZB 42LV3551-ZD / 42LV355T-ZJ 42LV3550-ZH / 42LV355A-ZH 42LV355U-ZH / 42LV355N-ZH 42LV3500-ZG / 42LV3551-ZK 42LV355C-ZD
Dimensions (W x H x D)	With stand	1228.0 mm x 836.5 mm x 364.0 mm	998.0 mm x 684.0 mm x 256.0 mm
	Without stand	1228.0 mm x 795.1 mm x 78.9 mm	998.0 mm x 615.0 mm x 30.4 mm
Weight	With stand	37.3 kg	15.5 kg
	Without stand	34.3 kg	13.3 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		100 W	110 W
MODELS		47LV35**	
		47LV3500-ZA / 47LV3550-ZB 47LV350A-ZA / 47LV355A-ZB 47LV350N-ZA / 47LV355N-ZB 47LV350U-ZA / 47LV355U-ZB 47LV355T-ZC / 47LV355C-ZB 47LV3551-ZD / 47LV355T-ZJ 47LV3550-ZH / 47LV355A-ZH 47LV355U-ZH / 47LV355N-ZH 47LV3500-ZG / 47LV3551-ZK 47LV355C-ZD	
Dimensions (W x H x D)	With stand	1108.0 mm x 746.0 mm x 256.0 mm	
	Without stand	1108.0 mm x 677.0 mm x 30.4 mm	
Weight	With stand	20.9 kg	
	Without stand	18.7 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
Power Consumption		140 W	
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LV34**	42LV34**
		32LV3400-ZA / 32LV340N-ZA 32LV340A-ZA / 32LV340U-ZA 32LV3400-ZG / 32LV340N-ZG 32LV340A-ZG / 32LV340U-ZG	42LV3400-ZA / 42LV340N-ZA 42LV340A-ZA / 42LV340U-ZA 42LV3400-ZG / 42LV340N-ZG 42LV340A-ZG / 42LV340U-ZG
Dimensions (W x H x D)	With stand	768.0 mm x 555.0 mm x 240.0 mm	1000.0 mm x 694.0 mm x 257.0 mm
	Without stand	768.0 mm x 492.0 mm x 45.0 mm	1000.0 mm x 623.0 mm x 43.0 mm
Weight	With stand	11.0 kg	14.8 kg
	Without stand	9.3 kg	12.4 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		80 W	110 W
MODELS		32LV45**	37LV45**
		32LV4500-ZC / 32LV450N-ZC 32LV450A-ZC / 32LV450U-ZC	37LV4500-ZC / 37LV450N-ZC 37LV450A-ZC / 37LV450U-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		42LV45**	47LV45**
		42LV4500-ZC / 42LV450N-ZC 42LV450A-ZC / 42LV450U-ZC	47LV4500-ZC / 47LV450N-ZC 47LV450A-ZC / 47LV450U-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		120 W	140 W
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LW45**	
		32LW4500-ZB / 32LW450N-ZB 32LW450A-ZB / 32LW450U-ZB 32LW451C-ZB	
Dimensions (W x H x D)	With stand	772.0 mm x 551.0 mm x 240.0 mm	
	Without stand	772.0 mm x 490.0 mm x 34.9 mm	
Weight	With stand	11.4 kg	
	Without stand	9.1 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
Power Consumption		100 W	
MODELS		42LW45**	47LW45**
		42LW4500-ZB / 42LW450N-ZB 42LW450A-ZB / 42LW450U-ZB 42LW451C-ZB	47LW4500-ZB / 47LW450N-ZB 47LW450A-ZB / 47LW450U-ZB 47LW451C-ZB
Dimensions (W x H x D)	With stand	1005.0 mm x 686.0 mm x 255.0 mm	1115.0 mm x 748.0 mm x 255.0 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	15.9 kg	21.4 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		120 W	140 W
MODELS		55LW45**	
		55LW4500-ZB / 55LW450N-ZB 55LW450A-ZB / 55LW450U-ZB 55LW451C-ZB	
Dimensions (W x H x D)	With stand	1293.0 mm x 851.0 mm x 341.0 mm	
	Without stand	1293.0 mm x 785.0 mm x 29.9 mm	
Weight	With stand	27.0 kg	
	Without stand	22.0 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
Power Consumption		160 W	
MODELS		42LW54**	47LW54**
		42LW5400-ZA / 42LW540N-ZA 42LW540A-ZA / 42LW540U-ZA	47LW5400-ZA / 47LW540N-ZA 47LW540A-ZA / 47LW540U-ZA
Dimensions (W x H x D)	With stand	977.0 mm x 648.0 mm x 268.0 mm	1089.0 mm x 711.0 mm x 268.0 mm
	Without stand	977.0 mm x 584.0 mm x 37.1 mm	1089.0 mm x 647.0 mm x 37.1 mm
Weight	With stand	16.6 kg	21.9 kg
	Without stand	12.4 kg	17.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		130 W	140 W
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		22LV55**	26LV55**
		22LV5500-ZC / 22LV550N-ZC 22LV550A-ZC / 22LV550U-ZC 22LV5510-ZD / 22LV551N-ZD 22LV551A-ZD / 22LV551U-ZD 22LV5500-ZJ / 22LV550A-ZJ 22LV550N-ZJ / 22LV550U-ZJ 22LV5510-ZK	26LV5500-ZC / 26LV550N-ZC 26LV550A-ZC / 26LV550U-ZC 26LV5510-ZD / 26LV551N-ZD 26LV551A-ZD / 26LV551U-ZD 26LV5500-ZJ / 26LV550A-ZJ 26LV550N-ZJ / 26LV550U-ZJ 26LV5510-ZK
Dimensions (W x H x D)	With stand	530.0 mm x 388.0 mm x 151.0 mm	640.0 mm x 474.0 mm x 178.0 mm
	Without stand	530.0 mm x 340.0 mm x 31.3 mm	640.0 mm x 405.0 mm x 31.0 mm
Weight	With stand	3.2 kg	5.05 kg
	Without stand	2.8 kg	4.4 kg
Power requirement		DC 24 V, 1.7 A, 40 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz	DC 24 V, 2.1 A, 60 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz
MODELS		19LV23**	22LV23**
		19LV2300-ZA / 19LV230N-ZA 19LV230A-ZA / 19LV230U-ZA 19LV2300-ZG	22LV2300-ZA / 22LV230N-ZA 22LV230A-ZA / 22LV230U-ZA 22LV2300-ZG
Dimensions (W x H x D)	With stand	471.2 mm x 365.9 mm x 155.4 mm	542.9 mm x 407.1 mm x 155.4 mm
	Without stand	471.2 mm x 315.5 mm x 34.4 mm	542.9 mm x 357.6 mm x 34.4 mm
Weight	With stand	3.4 kg	4.2 kg
	Without stand	3.2 kg	3.9 kg
Power requirement		DC 24 V, 1.4 A, 38 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz	DC 24 V, 1.7 A, 40 W AC-DC adaptor : 24 V  , 2.5 A / AC 100-240 V~ 50 / 60 Hz
MODELS		32LK46**	37LK46**
		32LK469C-ZB	37LK469C-ZB
Dimensions (W x H x D)	With stand	795.0 mm x 568.0 mm x 207.0 mm	913.0 mm x 639.0 mm x 265.0 mm
	Without stand	795.0 mm x 504.0 mm x 73.5 mm	913.0 mm x 571.0 mm x 77.4 mm
Weight	With stand	9.6 kg	12.8 kg
	Without stand	8.5 kg	11.1 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		120 W	160 W
MODELS		42LK46**	
		42LK469C-ZB	
Dimensions (W x H x D)	With stand	1019.0 mm x 698.0 mm x 265.0 mm	
	Without stand	1019.0 mm x 631.0 mm x 76.5 mm	
Weight	With stand	15.1 kg	
	Without stand	13.4 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
Power Consumption		180 W	
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

MODELS		32LV36**	37LV36**
		32LV369C-ZD	37LV369C-ZD
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	13.5 kg
	Without stand	9.6 kg	11.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Power Consumption		80 W	100 W
MODELS		42LV36**	47LV36**
		42LV369C-ZD	47LV369C-ZD
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
CI Module Size (Width x Height x Depth)		100.0 mm x 55.0 mm x 5.0 mm	

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

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 %

	Digital TV ¹	Digital TV	Analogue TV
Television System	DVB-T/T2 DVB-C	DVB-T DVB-C	PAL/SECAM B/G/D/K, PAL I/II, SECAM L/L ¹²
Programme Coverage	VHF, UHF		VHF: E2 to E12, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47
Maximum number of storable programmes	1,000		
External Antenna Impedance	75 Ω		75 Ω

1 Only DVB-T2 support models

2 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
1280x768 (HDMI-PC mode : Except for LCD TV/LED LCD TV)	47.78	59.87
1360x768	47.72	59.80
1280x1024	63.981	60.02
1920x1080 (RGB-PC)	66.587	59.93
1920x1080 (HDMI-PC)	67.5	60.00

(Except for 42/50PT****, 42/50PW****,
22/26/32LK33**, 19/26/32LV25**,
19/22LV23**)

(Except for 42/50PT****, 42/50PW****)

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
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Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

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

RF SPECIFICATIONS

- RF module(BM-LDS201) specification(Only 50/60PZ25**, 42/50PW45**, 50/60PZ55**)

For TV By using a 2.4 GHz bandwidth radio frequency(RF).

- » Output : 1 dBm or lower
- » Maximum Communication Distance : 10 m (30 ft) in an open space
- » Bandwidth : 2.4 GHz (2.4035 GHz - 2.4783 GHz)
- » Transfer Rate : 250 kbps

FCC ID of RF module inside TV

FCC ID : BEJLDS201



Video supported mode

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

3D supported mode

	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI Input	720p	1280 X 720	44.96 / 45	59.94 / 60	Top & Bottom, Side by Side
			89.9 / 90	59.94/60	HDMI 3D Frame Packing
			37.5	50	Top & Bottom, Side by Side
			75		HDMI 3D Frame Packing
	1080i	1920 X 1080	33.72 / 33.75	59.94/60	Top & Bottom, Side by Side
			28.125	50	
	1080p	1920 X 1080	69.433 / 67.50	59.94/60	Top & Bottom, Side by Side, Checker Board, Single Frame Sequential
			56.250	50	
			27	24	Top & Bottom, Side by Side, Checker Board
			53.95 / 54	23.98/24	HDMI 3D Frame Packing
USB Input	1080p	1920 X 1080	33.75	30	Top & Bottom, Side by Side, Checker Board
	Resolution				Playable 3D video format
	Other Resolution				Top & Bottom, Side by Side
PC Input	1920 X 1080		66.587	59.93	Top & Bottom, Side by Side,
Component Input (Only Plasma TV)	720p	1280 X 720	44.96 45.00 37.50	59.94 60.00 50.00	Top & Bottom, Side by Side
	1080i	1920 X 1080	33.72 33.75 28.125	59.94 60.00 50.00	Top & Bottom, Side by Side
Signal					Playable 3D video format
DTV	720p, 1080i				Top & Bottom, Side by Side

(Only 50/60PZ****, 32/42/47/55LW45**, 47LK95**, 42/47LW54**)

(Only Plasma TV)

IR CODES

- (This feature is not available for all models.)

Code (Hexa)	Function	Note
08	⏻(POWER)	Remote control Button (Power On/Off)
95	ENERGY SAVING	Remote control Button
30	AV MODE	Remote control Button
0B	INPUT	Remote control Button
F0	TV/RAD	Remote control Button
10-19	Number Key 0-9	Remote control Button
53	LIST	Remote control Button
1A	Q.VIEW	Remote control Button
02	⏏ +	Remote control Button
03	⏏ -	Remote control Button
1E	FAV/MARK	Remote control Button
DC	3D	Remote control Button
09	MUTE	Remote control Button
00	P▲	Remote control Button
01	P▼	Remote control Button
43	Home	Remote control Button
AB	GUIDE	Remote control Button
45	Q.MENU	Remote control Button
28	BACK	Remote control Button
AA	INFO	Remote control Button
5B	EXIT	Remote control Button
44	OK	Remote control Button
40	▲	Remote control Button
41	▼	Remote control Button
07	<	Remote control Button
06	>	Remote control Button
72	RED	Remote control Button
71	GREEN	Remote control Button
63	YELLOW	Remote control Button
61	BLUE(3D SETTING)	Remote control Button
20	TEXT	Remote control Button
21	T.OPT(T.Option)	Remote control Button
39	SUBTITLE	Remote control Button
B1	■	Remote control Button
B0	▶	Remote control Button
BA	⏮(FREEZE)	Remote control Button
8E	▶▶	Remote control Button
8F	◀◀	Remote control Button
7E	SIMPLINK	Remote control Button
79	RATIO	Remote control Button
91	AD	Remote control Button

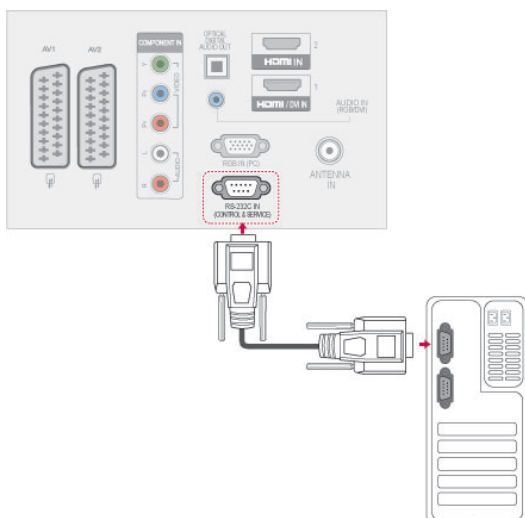
EXTERNAL CONTROL DEVICE SETUP

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.

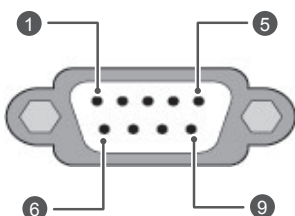
Connect the serial port of the control device to the RS-232C jack on the product back panel.

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



ENGLISH

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

RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	8	CTS
CTS	8	7	RTS
	D-Sub 9	D-Sub 9	

3-Wire Configurations(Not standard)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	

Set ID

Set ID number. "Real Data Mapping" on See p.116

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to **SET ID** and press **OK**.
- 4 Scroll left or right to select a set ID number and select **Close**. The adjustment range is 1-99.
- 5 When you are finished, press **EXIT**.

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 (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 to 01	14. Bass	k	s	00 to 64
02. Aspect Ratio	k	c	(See p.113)	15. Balance	k	t	00 to 64
03. Screen Mute	k	d	(See p.113)	16. Colour Temperature	x	u	00 to 64
04. Volume Mute	k	e	00 to 01	17. ISM Method	j	p	(See p.115)
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 Configuration	j	u	01
07. Brightness	k	h	00 to 64	20. Tune Command	m	a	(See p.115)
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.116)
12. Remote Control Lock Mode	k	m	00 to 01	25. 3D	x	t	(See p.116)
13. Treble	k	r	00 to 64	26. Extended 3D	x	v	(See p.116)

- * 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 07 : 14:9
(4:3) 09 : Just Scan
02 : Wide screen (16:9) 0B : Full Wide
04 : Zoom 10 to 1F : Cinema Zoom 1 to 16
06 : Original

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.116.

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.116.

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.116.

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.116.

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.116.

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.116.

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.116.

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.116..

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.116.

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.116.

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

17. ISM Method (Command: j p) (Only Plasma TV)

- 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	Off
0	0	0	0	Low Power	0	0	0	Minimum
0	0	0	0	Low Power	0	0	1	Medium
0	0	0	0	Low Power	0	0	1	Maximum
0	0	0	0	Low Power	0	1	0	Screen Off
0	0	0	0	Low Power	0	1	0	Intelligent Sensor (Only Plasma TV)
0	0	0	0	Low Power	0	1	0	Auto (Only LCD TV/LED LCD TV - Depending on models)

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 : Analogue Main
0x10 : DTV Main
0x20 : Radio

Channel data range

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

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]

22. Key (Command: m c)

- To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data Key code - Refer to page 109.

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

23. Control Back Light (Command: m g)
(Only LCD TV/LED LCD TV)

- To Control the back light.

Transmission [m][g][][Set ID][][Data][Cr]

Data : 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 Structure

MSB

LSB

0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---

└ External Input ┐

└ Input Number ┐

External Input				Data
0	0	0	0	DTV
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB
0	1	1	1	HDMI
1	0	0	0	
1	0	0	1	
1	0	1	0	

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

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

25. 3D(Command: x t) (only 3D models)

- To change 3D mode for TV.

Transmission [x][t][][Set ID][][Data01][][Data02][][Data03][][Data04][Cr]

Data Structure

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 Effect(3D Depth) : Min : 00 ~ Max : 14
(*transmit by Hexadecimal code)
*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.

Data 1	Data 2	Data 3	Data 4
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(Only 2D to 3D)
02 : 3D Viewpoint
03 : 3D Picture Size(Only Plasma TV)
04 : 3D Picture Balance (Only Plasma TV)
05 : 3D Optimization(Only Active type (LCD TV))

Data02 It has own range for each 3D option determined by Data01.

- When Data 01 is 00
00 : Right to Left
01 : Left to Right
- When Data 01 is 01, 02
Data Min: 0 ~ Max: 14
- When Data 01 is 03
00 : Just Scan
01 : 16:9
- When Data 01 is 04
00 : Off
01 : On
- When Data 01 is 05
Data Min: 0 ~ Max: 02

* Refer to 'Real data mapping'.

Ack [v][][OK][Data01][Data02][x][v][][NG][Data01][x]

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