



APPENDIX G
: USER'S MANUAL



OWNER'S MANUAL LED LCD TV / LCD TV / PLASMA TV

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

LED LCD TV MODELS

19LV2500 32LV3500
22LV2500 37LV3500
26LV2500 42LV3500
32LV2500 47LV3500
32LV3520 55LV3500
42LV3520

LCD TV MODELS

22LK330 32LK450
26LK330 37LK450
32LK330 42LK450
32LK430 47LK450
42LK430 42LK520
47LK520
55LK520

PLASMA TV MODELS

42PW340 42PW350U
50PW340 50PW350U
42PW350 42PW350R
50PW350 50PW350R
50PZ200
60PZ200

The model and serial numbers of the TV is located on the back of the TV. Record it below should you ever need service.

MODEL _____

SERIAL _____

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NOTE

- : Plasma TV
- : LED LCD TV, LCD TV
- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.

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IMPORTANT SAFETY INSTRUCTIONS

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product.





WARNING / CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

 The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION

- TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
- TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Read these instructions.
Keep these instructions.
Heed all warning.
Follow all instruction.



- Do not use this apparatus near water.



- Clean only with dry cloth.



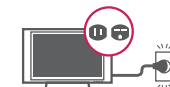
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- Only use attachments/accessories specified by the manufacturer.



- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.



- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- Never touch this apparatus or antenna during a thunder or lightning storm.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.

- Do not allow an impact shock or any objects to fall into the product, and do not drop anything onto the screen.

- CAUTION concerning the Power Cord (Can differ by country):

It is recommended that appliances be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. Do not move the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.



- **Warning** - To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.



Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc. Our home page can be found at <http://www.freetype.org>

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If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

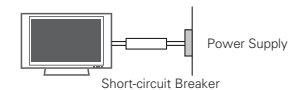
freetype-devel@nongnu.org

- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



• Grounding

Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.



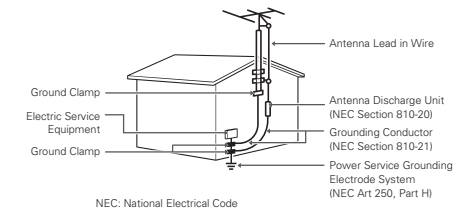
• DISCONNECTING DEVICE FROM THE MAIN POWER

The power outlet must remain readily accessed in the event the device needs to be unplugged.

- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.
- **ANTENNAS Outdoor antenna grounding** (Can differ by country):
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the

U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANSI/NFPA 70



• Cleaning

When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzene.

• Moving

Make sure the product is turned off, unplugged and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV.

• Ventilation

Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials while plugged. Do not install in excessively dusty places.

- If you smell smoke or other odors coming from the TV, unplug the power cord contact an authorized service center.
- Do not press strongly upon the panel with hand or sharp object such as nail, pencil or pen, or make a scratch on it.
- Keep the product away from direct sunlight.



• Dot Defect

The Plasma or LCD panel is a high technology product with resolution of two million to six million pixels. In a very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.

• Generated Sound

“Cracking” noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product. This generated sound does not affect the performance and reliability of the product.

• Viewing 3D Imaging (For 3D TV)

- When viewing 3D imaging, watch the TV from an effective viewing angle and within the appropriate distance. If you exceed this viewing angle or distance, you may not be able to view the 3D imaging. Furthermore, the 3D imaging may not display if it is viewed while you are lying down.
- 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.

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The original packager is Adam Di Carlo <aph@debian.org>.
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- If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

DISPOSAL (Hg lamp only used in LCD TVs)

The fluorescent lamp used in this product contains a small amount of mercury. Do not dispose of this product with general household waste. Disposal of this product must be carried out in accordance to the regulations of your local authority.

For USA and Canada

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE TO CABLE/TV INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

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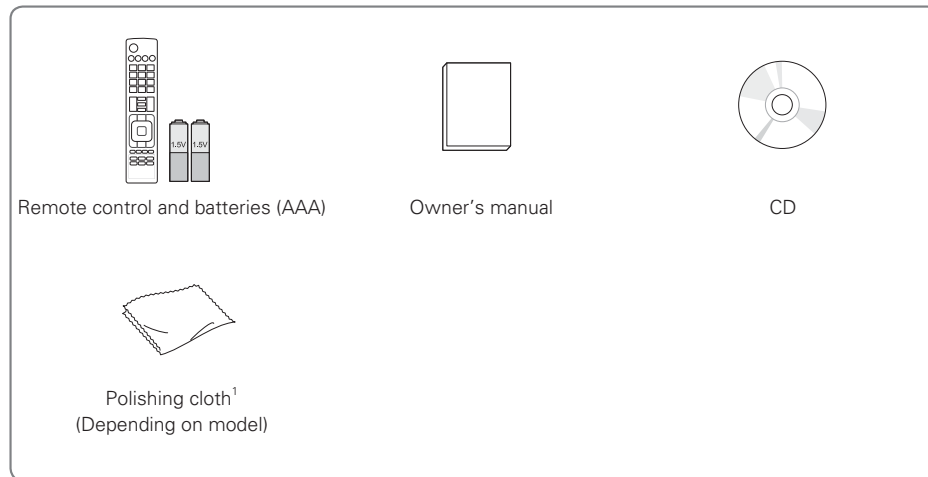
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ASSEMBLING AND PREPARING

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.



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

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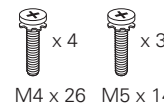
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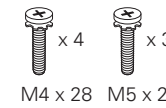
PW340, PW350, PW350U, PW350R, PZ200 series

(Other models)



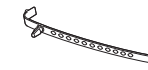
M4 x 26 M5 x 14.5

(For 60PZ200)



M4 x 28 M5 x 25

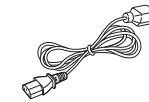
Screw for assembly



Cable holder



Power Cord holder



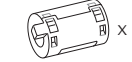
Power Cord



Protection cover

(For 42PW340, 42PW350)

(For 50PW340, 50PW350)



Ferrite core



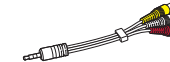
Protection cover tape

LV3500 series



M4 x 12

Screw for assembly



Composite gender cable



Cable holder

(For 32LV3500)



Screw for fixing

LV2500 series



M4 x 16



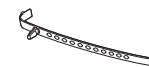
M4 x 6

Screw for assembly



Cable holder

22LK330



Cable holder



Protection cover



Power Cord

26/32LK330, LK430, LK450, LK520 series

(Except 47LK450, 47/55LK520)

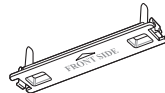


x 8
M4 x 20

Screw for assembly



Screw for fixing



Protection cover



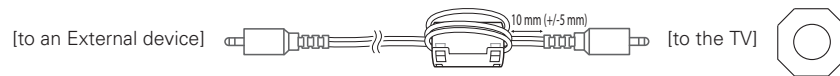
Power Cord

CAUTION

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

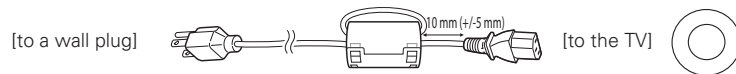
NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- How to use the ferrite core
 - (For PW340, PW350 series)
 - Use the ferrite core to reduce the electromagnetic interference in the PC audio cable.
 - Wind the PC audio cable on the ferrite core thrice. Place the ferrite core close to the TV.



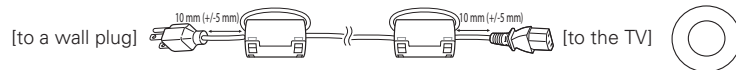
- (For 42PW340, 42PW350)

- 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.

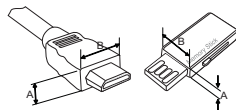


- (For 50PW340, 50PW350)

- 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.



- **LCD** For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) width.



*A ≦ 10 mm (0.39 inches)
*B ≦ 18 mm (0.7 inches)

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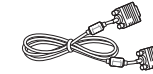
Optional Extras

Optional extras 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 LED LCD TV, LCD TV, or Plasma TV.



3D Glasses
(AG-S230, AG-S250, AG-S270)

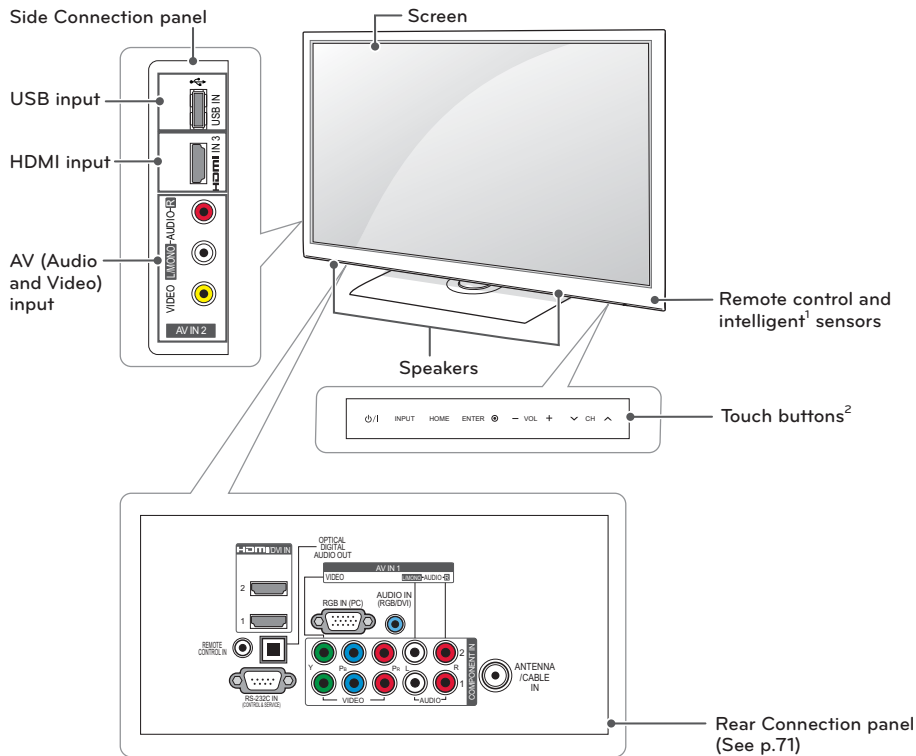


D-sub 15 pin signal cable¹

- 1 When using the VGA (D-sub 15 pin signal cable) PC connection, use the shielded signal interface cable with a ferrite core to maintain standards compliance for the product.

Parts and buttons

PW340, PW350, PW350U, PW350R, PZ200 series



Touch button ²	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.
ENTER ◉	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
√ CH ^	Scrolls through the saved channels.

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

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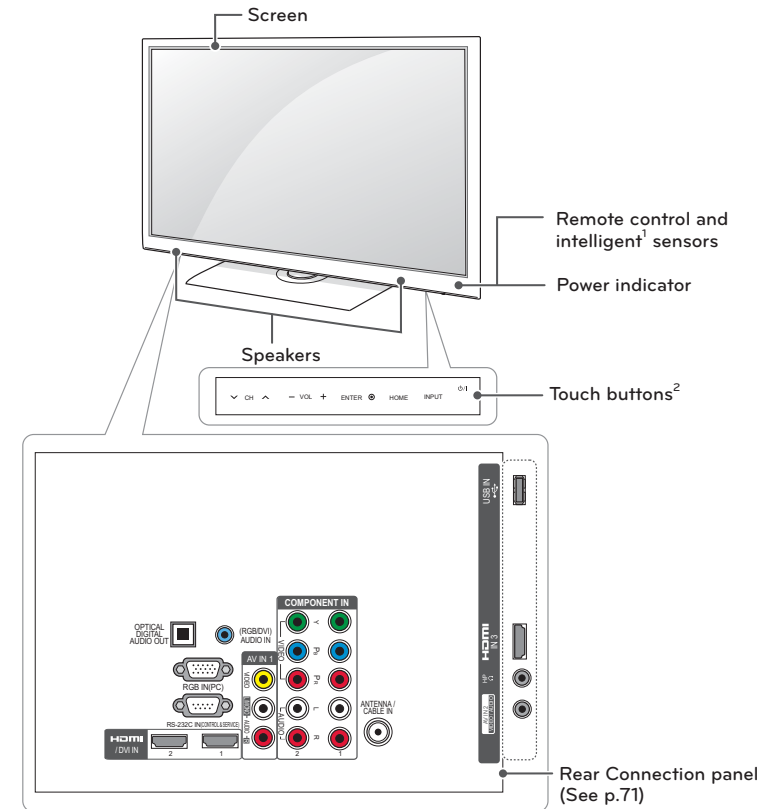
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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

ENGLISH

32LV2500, LV3500 series



ENGLISH

Touch button ²	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.
ENTER	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
∨ CH ^	Scrolls through the saved channels.

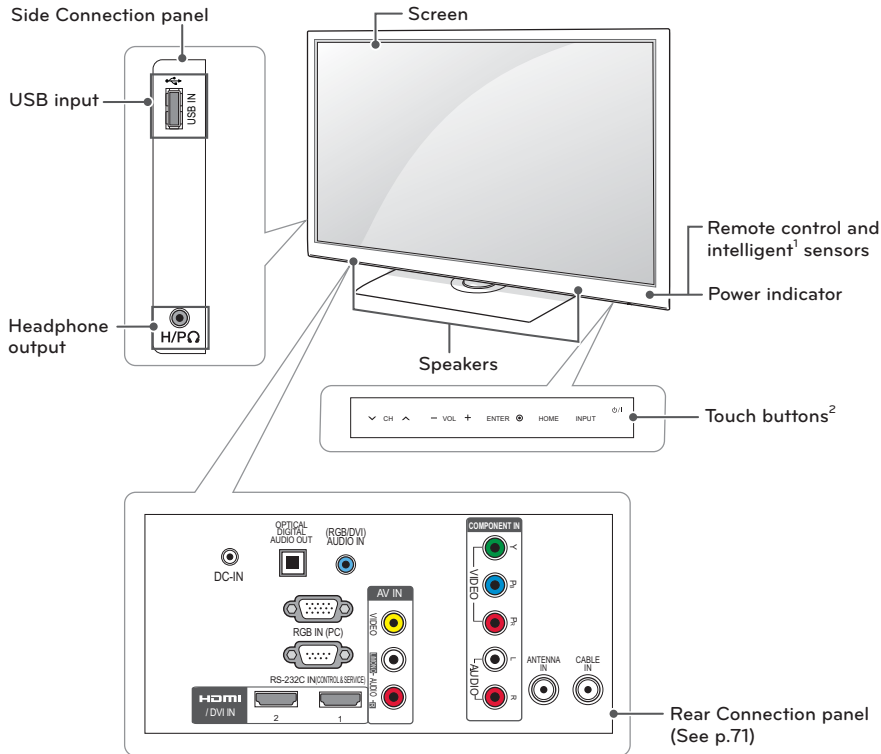
- 1 Intelligent sensor - Adjusts the image quality and brightness based on the surrounding environment.
- 2 All of the buttons are touch sensitive and can be operated through simple touch with your finger.



NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

19/22/26LV2500



Touch button ²	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.
ENTER	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
√ CH ^	Scrolls through the saved channels.

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

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

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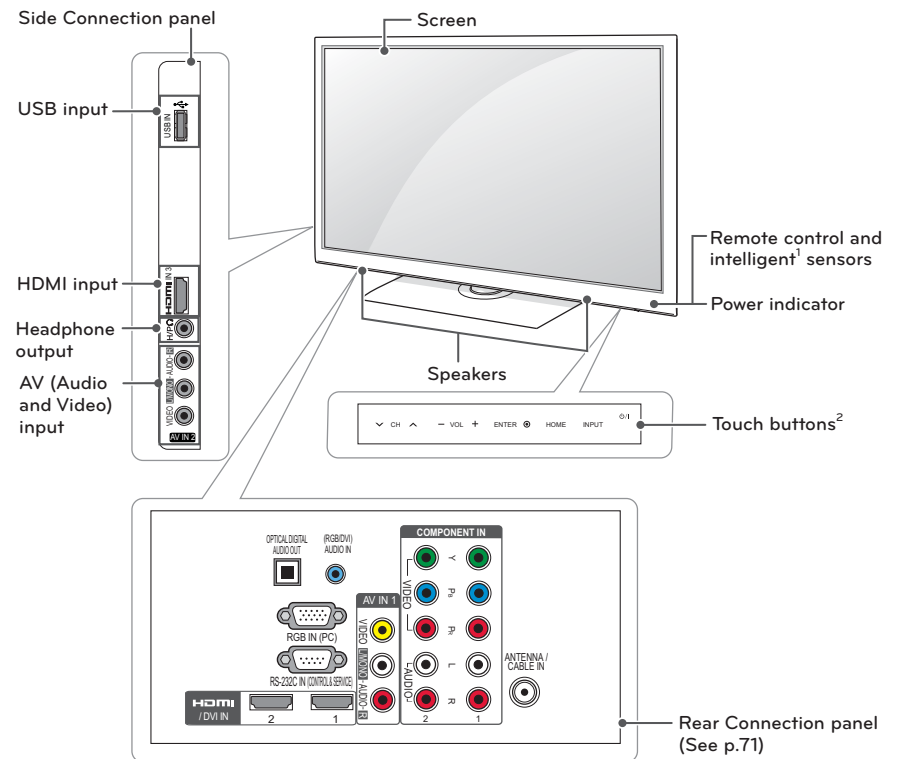
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LK450 series



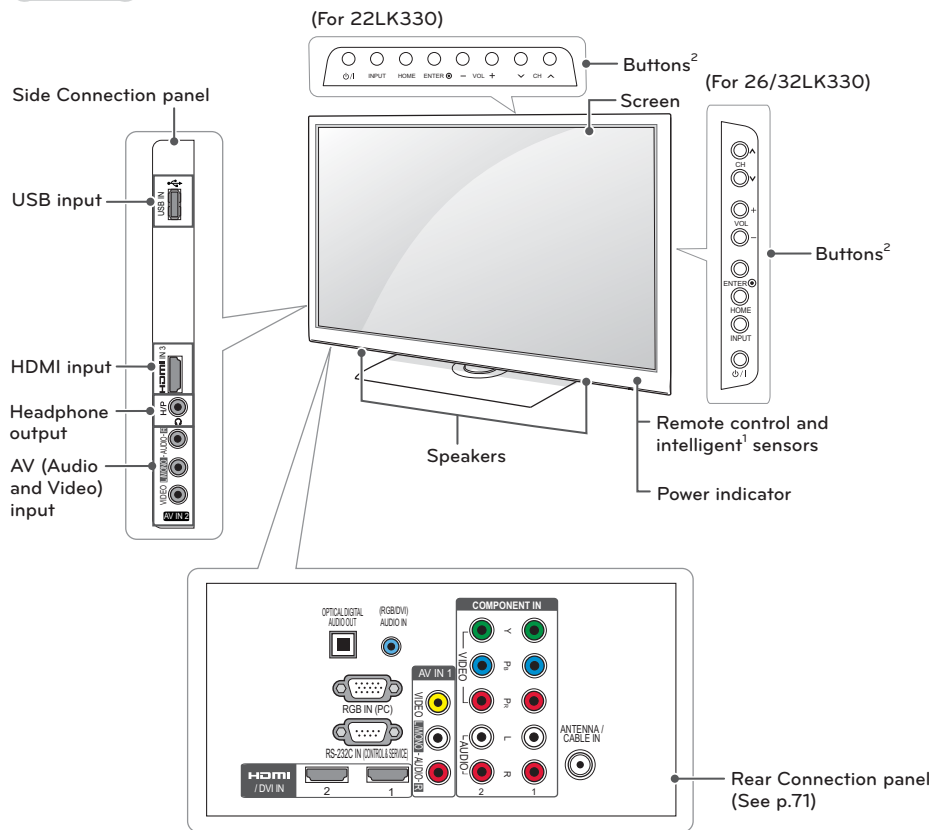
Touch button ²	Description
⏻	Turns the power on or off.
INPUT	Changes the input source.
HOME	Accesses the main menus, or saves your input and exits the menus.
ENTER	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
∨ CH ^	Scrolls through the saved channels.

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

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

LK330 series



Button ²	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.
ENTER ◉	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
∨ CH ∧	Scrolls through the saved channels.

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

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

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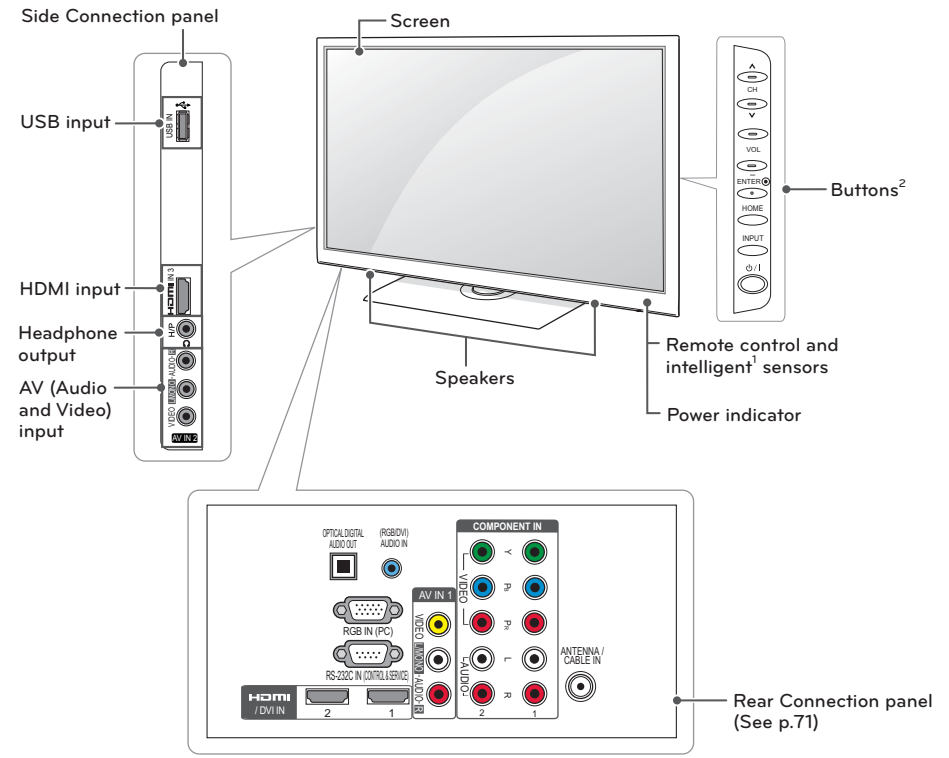
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LK430 series



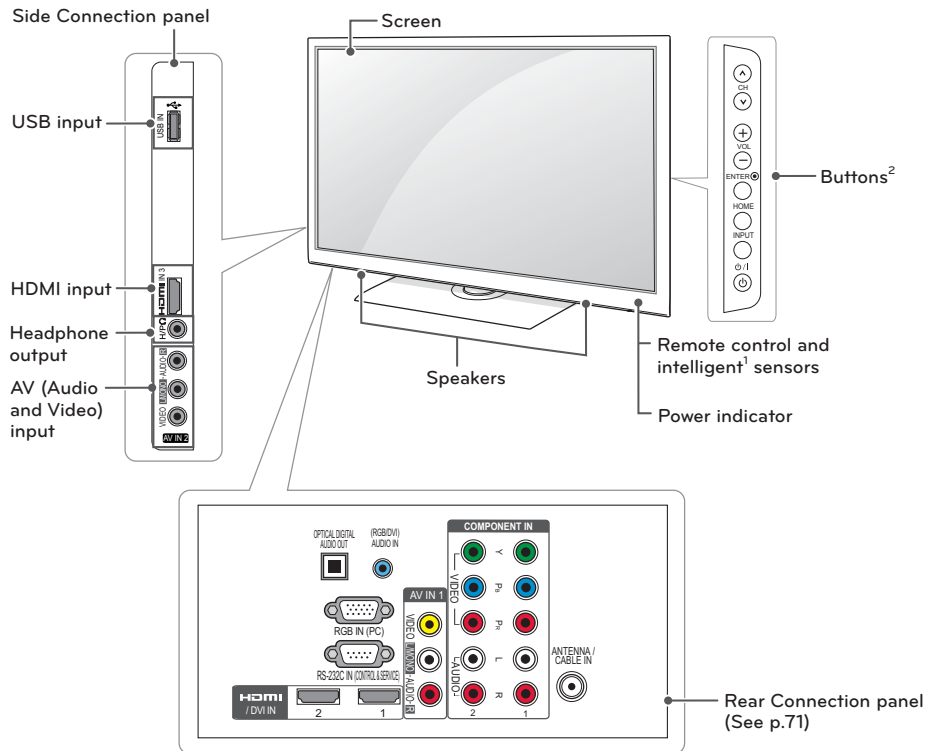
Button ²	Description
⏻ / ⏪	Turns the power on or off.
INPUT	Changes the input source.
HOME	Accesses the main menus, or saves your input and exits the menus.
ENTER	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
∨ CH ^	Scrolls through the saved channels.

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

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

LK520 series



Button ²	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.
ENTER ◉	Selects the highlighted menu option or confirms an input.
- VOL +	Adjusts the volume level.
√ CH ^	Scrolls through the saved channels.

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

NOTE

- You can set the power indicator light to on or off by selecting **OPTION** in the main menus.

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Lifting and moving the TV

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

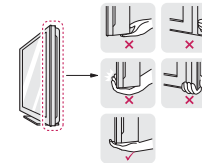
CAUTION

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

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



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



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



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

Setting up the TV

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

Attaching the stand

PW340, PW350, PW350U, PW350R, PZ200 series

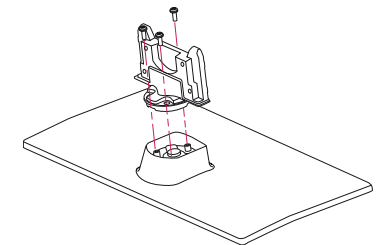
- 1 Lay the TV with the screen side down on a flat surface.

CAUTION

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

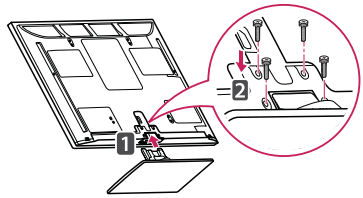
- 2 Assemble the parts of the STAND BODY with the STAND BASE of the TV.

Model	Screw for assembly	Number of screws
42/50PW340 42/50PW350 42/50PW350U 42/50PW350R 50PZ200	M5 x 14.5	3
60PZ200	M4 x 25	3



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

Model	Screw for assembly	Number of screws
42/50PW340 42/50PW350 42/50PW350U 42/50PW350R 50PZ200	M4 x 26	4
60PZ200	M4 x 28	4



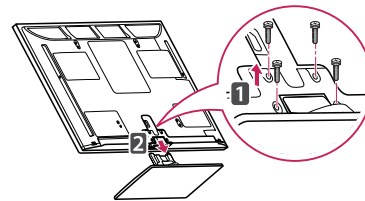
CAUTION

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

To detach the stand,

- 1 Lay the TV with the screen side down on a flat surface.
- 2 Remove the 4 screws and pull the stand away from the TV.

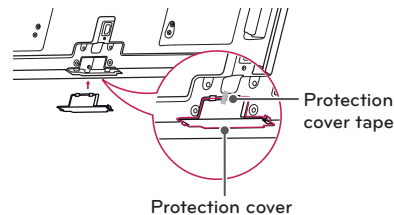
Model	Screw for assembly	Number of screws
42/50PW340 42/50PW350 42/50PW350U 42/50PW350R 50PZ200	M4 x 26	4
60PZ200	M4 x 28	4



- 3 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.



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LV3500 series

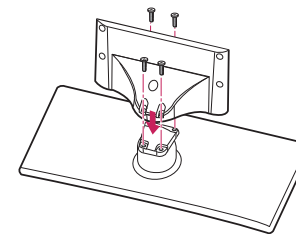
- 1 Lay the TV with the screen side down on a flat surface.

CAUTION

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

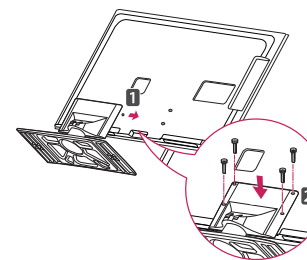
- 2 Assemble the parts of the STAND BODY with the STAND BASE of the TV.

Model	Screw for assembly	Number of screws
32/37/42/47/55 LV3500	M4 x 12	4



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

Model	Screw for assembly	Number of screws
32/37/42/47/55 LV3500	M4 x 12	4



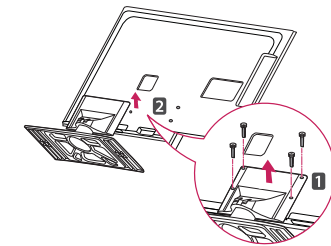
CAUTION

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

To detach the stand,

- 1 Lay the TV with the screen side down on a flat surface.
- 2 Remove the 4 screws and pull the stand away from the TV.

Model	Screw for assembly	Number of screws
32/37/42/47/55 LV3500	M4 x 12	4



LV2500 series

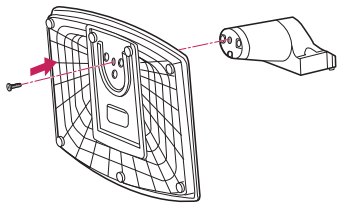
- 1 Lay the TV with the screen side down on a flat surface.

 **CAUTION**

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

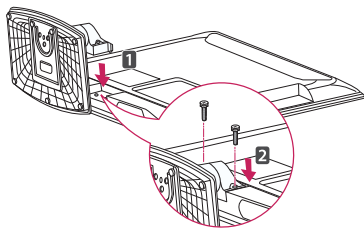
- 2 Assemble the parts of the STAND BODY with the STAND BASE of the TV.

Model	Screw for assembly	Number of screws
19/22/26/32 LV3500	M4 x 6	1



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

Model	Screw for assembly	Number of screws
19/22/26/32 LV3500	M4 x 16	2

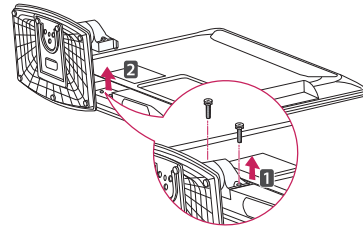

 **CAUTION**

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

To detach the stand,

- 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.

Model	Screw for assembly	Number of screws
19/22/26/32 LV3500	M4 x 16	2



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Version 2, June 1991

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GNU LGPL v2.1	- directFB - gconv - glibc
MPL 1.1	- nanox

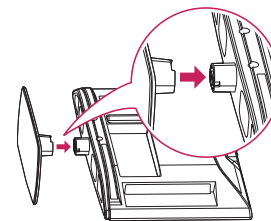
22LK330

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

CAUTION

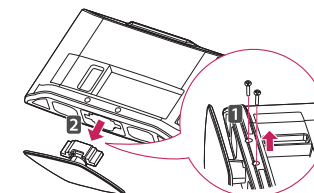
- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

- 2 Assemble the TV as shown.



To detach the stand,

- 1 Lay the TV with the screen side down on a flat surface.
- 2 Remove the 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. When installing the wall mounting bracket, use the Protection cover.



Protection cover

26/32LK330, LK430, LK450, LK520 series

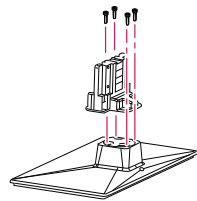
- 1 Lay the TV with the screen side down on a flat surface.

CAUTION

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

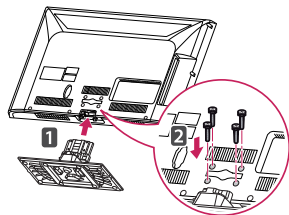
- 2 Assemble the parts of the STAND BODY with the STAND BASE of the TV.

Model	Screw for assembly	Number of screws
22/26LK330 32/42LK430 32/37/42/47 LK450 42/47/55LK520	M4 x 20	4



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

Model	Screw for assembly	Number of screws
22/26LK330 32/42LK430 32/37/42/47 LK450 42/47/55LK520	M4 x 20	4



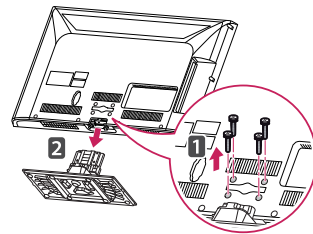
CAUTION

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

To detach the stand,

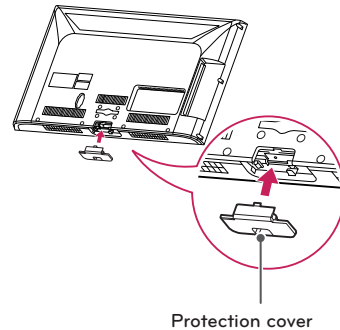
- 1 Lay the TV with the screen side down on a flat surface.
- 2 Remove the 4 screws and pull the stand away from the TV.

Model	Screw for assembly	Number of screws
22/26LK330 32/42LK430 32/37/42/47 LK450 42/47/55LK520	M4 x 20	4



- 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.
When installing the wall mounting bracket, use the Protection cover.



Protection cover

7	Main/Sub Picture	6	Two/One Part Channel	5	Using Physical Channel	4 Reserved	3	2	1	0	Step
0	Main	0	Two	0	Use	x	0	0	0	0	NTSC Air
1	Sub	1	One	1	No Use	x	0	0	0	1	NTSC Cable
						x	0	0	1	0	ATSC Air
						x	0	0	1	1	ATSC Cable_std
						x	0	1	0	0	ATSC Cable_hrc
						x	0	1	0	1	ATSC Cable_irc
						x	0	1	1	0	ATSC cable_auto
						x	0	1	1	1	Reserved
						x	x	x	x	x	...
						x	1	1	1	1	Reserved

The binary code to tune the sub source to an NTSC cable channel is "1000 0001", which translates to "81" in Hex.

- * 7th bit : For which source do you want to change the channel.
- * 6th bit: Use a two part or one part channel. Most cases just use 0 since it's ignored when using NTSC.
- * 5th bit: Use 0 with NTSC since it can only use the physical channel number. Normally use 1 for ATSC since most times it doesn't matter what the physical number is.
- * 4th bit: Set to 0.
- * 3-0 bits: Choose signal type.

* Tune Command Examples:

1. Tune to the analog (NTSC) cable channel 35.
Data 00 = Physical of 35 = 23
Data 01 & 02 = No Major = 00 00
Data 03 & 04 = No Minor = 00 00
Data 05 = 0000 0001 in binary = 01
Total = ma 00 23 00 00 00 00 01

2. Tune to the digital (ATSC) local channel 30-3.
Data 00 = Don't know Physical = 00
Data 01 & 02 = Major is 30 = 00 1E
Data 03 & 04 = Minor is 3 = 00 03
Data 05 = 0010 0010 in binary = 22
Total = ma 00 00 00 1E 00 03 22

22. Channel Add/Del (Command: m b)

To add and delete the channels.

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

Data 00: Channel Delete Data 01: Channel Add

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

23. Key (Command: m c)

To send IR remote key code.

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

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

When TV is in the standby mode, TV will turn on by POWER button of remote control only.

24. Backlight (Command: m g) (LCD)

To adjust screen backlight.

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

Data Min:00 ~ Max:64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

12. OSD Select (Command: k l)

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

Transmission [k][l][][Set ID][][Data][Cr]

Data 00: OSD off Data 01: OSD on

Acknowledgement [l][][Set ID][][OK/NG][Data][x]

13. Remote Control Lock Mode (Command: k m)

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

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

Data 00: Lock off Data 01: Lock on

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

If you're not using the remote control and front panel controls on the Monitor set, use this mode. When main power is on/off, remote control lock is released. If Key Lock is on in the standby mode, TV will not turn on by POWER button of remote control and on the TV.

14. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

15. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

16. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

17. Color Temperature (Command: x u)

To adjust color temperature.

You can also adjust color temperature in the PICTURE menu.

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

Data Min: 00 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

18. ISM Method (Command: j p)

To avoid having a fixed image remain on screen.

Transmission [j][p][][Set ID][][Data][Cr]

Data 02: Orbiter

04: White Wash

08: Normal

20: Color Wash

Acknowledgement [p][][Set ID][][OK/NG][Data][x]

19. Energy Saving (Command: j q)

To control the energy saving function.

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

Data 00: off

01: Minimum

02: Medium

03: Maximum

04: Auto/Intelligent sensor (depending on model)

05: Screen off

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

20. Auto Configuration (Command: j u)

To adjust picture position and minimize image shaking automatically. Auto configuration only works in RGB-PC mode.

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

Data 01: To set

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

21. Channel Tuning (Command: m a)

To tune channel to following physical/major/minor number.

Transmission [m][a][][Set ID][][Data00][][Data01][][Data02][][Data03][][Data04][][Data05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel to the Major number, the Physical number is not required when sending a command.

Data 00: Physical Channel Number

NTSC air: 02~45, NTSC cable: 01, 0E~7D

ATSC air: 01~45, ATSC cable: 01~87

Data 01 & 02: Major Channel Number

Data 01: High byte Data 02: Low byte

Two bytes are available for the Major and Minor, normally only the second byte is used.

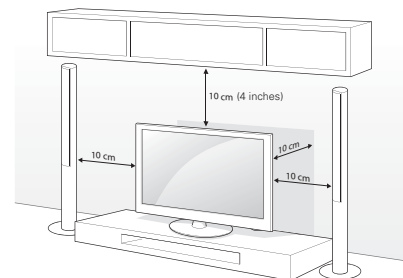
Data 03 & 04: Minor Channel Number

Not needed for NTSC.

The table above lists the binary code which must be converted to Hexadecimal before sending. For example:

Mounting on a table

- Lift and tilt the TV into its upright position on a table.
 - Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.



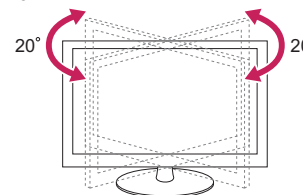
- Connect the power cord to a wall outlet.

**CAUTION**

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

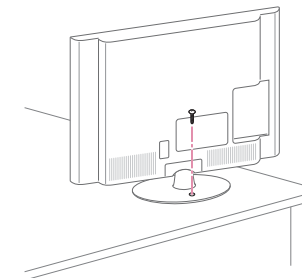
**NOTE**

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

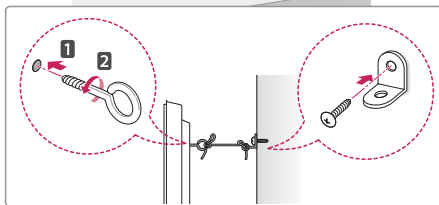
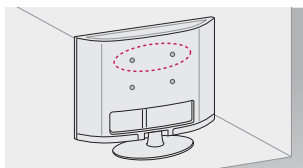
**Securing the TV to a table**

(For 26/32LK330, 32/42LK430, 32/37/42LK450, 42LK520, 32LV3500)

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 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 (optional)

- 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.

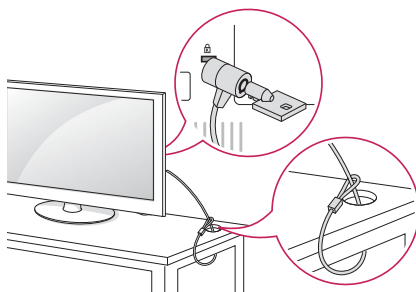
NOTE

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are optional. You can obtain additional accessories from your local dealer.

Using the Kensington security system (optional)

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.

**NOTE**

- The Kensington security system is optional. You can obtain additional accessories from your local dealer.

01. Power (Command: k a)

To control Power On/Off of the set.

Transmission [k][a][][Set ID][][Data][Cr]

Data 00: Power Off Data 01: Power On

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

- * In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.
- * Note: In this model, set will send the Acknowledge after power on processing completion. There might be a time delay between command and acknowledge.

02. Input Select (Command: x b)

To select input source for set.

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

Data 00: DTV (Antenna) Data 01: DTV (Cable)
 Data 10: Analog (Antenna) Data 11: Analog (Cable)
 Data 20: AV or AV1 Data 21: AV2
 Data 40: Component or Component1
 Data 41: Component2
 Data 60: RGB-PC Data 90: HDMI1
 Data 91: HDMI2 Data 92: HDMI3
 Data 93: HDMI4

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

- * Use the feature depending on your model.

03. Aspect Ratio (Command: k c)

To adjust the screen format.

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

Data 01: 4:3 Data: 09: Just scan
 Data 02: 16:9 Data: 10: Cinema Zoom 1
 Data 04: Zoom :
 Data 06: Set by program Data 1F: Cinema Zoom16

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

04. 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-out Mute off
 Data 01: Screen mute on (Picture off)
 Data 10: Video-out Mute on

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

- * In case of Video-out Mute on only, TV will display On Screen Display (OSD). But, in case of screen mute on, TV will not display On Screen Display (OSD).

05. 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)
 Data 01: Volume mute off (Volume on)

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

06. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

07. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

08. 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 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

09. Color (Command: k i)

To adjust screen color.

You can also adjust color in the PICTURE menu.

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

Data Min: 00 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

10. Tint (Command: k j)

To adjust screen tint.

You can also adjust tint in the PICTURE menu.

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

Data Red: 00 ~ Green: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

11. Sharpness (Command: k k)

To adjust screen sharpness.

You can also adjust sharpness in the PICTURE menu.

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

Data Min: 00 ~ Max: 64 (*transmit by Hexadecimal code)

*Refer to "Real data mapping".

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

Transmission / Receiving protocol

Transmission

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

[Command 1] : First command to control the set.(j, k, m or x)

[Command 2] : Second command to control the set.

[Set ID] : You can adjust the set ID to choose desired set ID number in Option menu. Adjustment range is 1~ 99. When selecting Set ID '0', every connected the set is controlled. Set ID is indicated as decimal (1~ 99) on menu and as Hexa decimal (0x0~ 0x63) on transmission /receiving protocol.

[DATA] : To transmit the command data.

Transmit the 'FF' data to read status of command.

[Cr] : Carriage Return

ASCII code '0x0D'

[] : ASCII code 'space (0x20)'

* In this model, set will not send the status during the standby mode.

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.

* In this model, set will not send the status during the standby mode.

* Data Format

[Command 2] : Use as command.

[Set ID] : Use the small character, if set ID is 10, it will send the '0', 'a'.

[DATA] : Use the small character, if data is 0 x ab, it will send the 'a', 'b'.

[OK] : Use the large character.

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.

Data1: Illegal Code

Data2: Not supported function

Data3: Wait more time

* In this model, set will not send the status during the standby mode.

* Data Format

[Command 2] : Use as command.

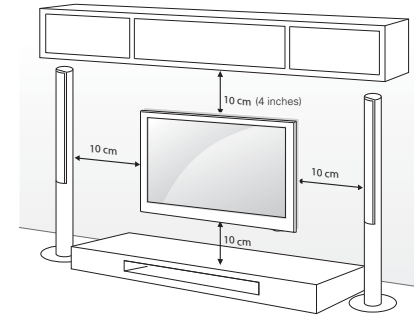
[Set ID] : Use the small character, if set ID is 10, it will send the '0', 'a'.

[DATA] : Use the small character, if data is 0 x ab, it will send the 'a', 'b'.


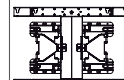
[NG] : Use the large character


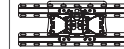
Mounting on a wall

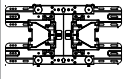
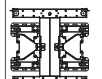
Attach an optional wall mount at the rear of the TV carefully and install the wall mount on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.



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

Model	42/50PW340 42/50PW350 42/50PW350U 42/50PW350R 50PZ200	60PZ200
VESA (A x B)	400 x 400	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket (optional)	PSW400B, PSW400BG, DSW400BG 	PSW600B 

Model	19/22/26LV2500 22/26LK330	32LV2500 32LV3500 32LK330 32LK430 32LK450
VESA (A x B)	100 x 100	200 x 100
Standard screw	M4	M4
Number of screws	4	4
Wall mount bracket (optional)	LSW100B, LSW100BG 	LSW100B, LSW100BG 

Model	37LV3500 42LK430 37/42/47LK450 42/47LK520	42/47/55LV3500 55LK520
VESA (A x B)	200 x 200	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW200B, LSW200BG 	LSW400B, LSW400BG, DSW400BG 

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 severe injury. Use an authorized LG wall mount 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 mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

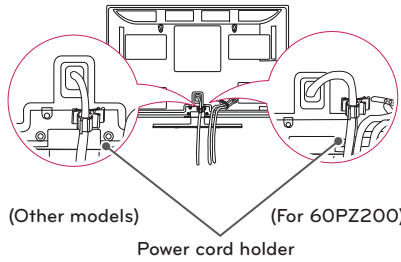
NOTE

- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- 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.

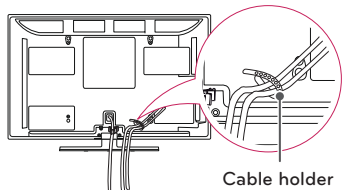
Tidying cables

PW340, PW350, PW350U, PW350R, PZ200 series

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



- 2 Gather and bind the cables with the cable holder.

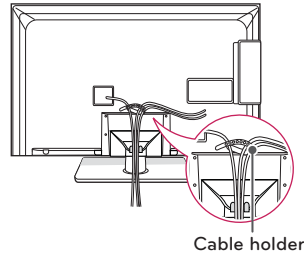


CAUTION

- Do not move the TV by holding the cable holder and power cord holder, as the cable holders may break, and injuries and damage to the TV may occur.

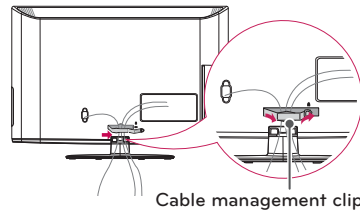
22LK330, LV2500, LV3500 series

- 1 Gather and bind the cables with the cable holder.



26/32LK330, LK430, LK450, LK520 series

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



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

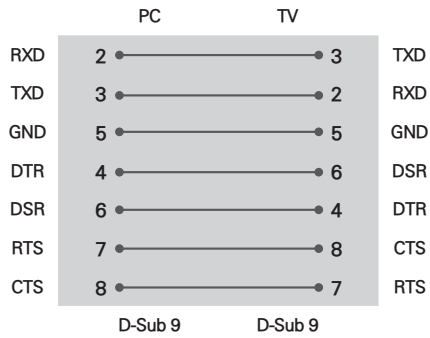
	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 - 01	14. Treble	k	r	00 - 64
02. Input Select	x	b	(See p.93)	15. Bass	k	s	00 - 64
03. Aspect Ratio	k	c	(See p.93)	16. Balance	k	t	00 - 64
04. Screen Mute	k	d	00 - 01	17. Color Temperature	x	u	00 - 64
05. Volume Mute	k	e	00 - 01	18. ISM Method ()	j	p	(See p.94)
06. Volume Control	k	f	00 - 64	19. Energy Saving	j	q	(See p.94)
07. Contrast	k	g	00 - 64	20. Auto Configuration	j	u	(See p.94)
08. Brightness	k	h	00 - 64	22. Channel Add/Del	m	b	00 - 01
09. Color	k	i	00 - 64	23. Key	m	c	(See p.95)
10. Tint	k	j	00 - 64	24. Backlight ()	m	g	00 - 64
11. Sharpness	k	k	00 - 64				
12. OSD Select	k	l	00 - 01				
13. Remote Control Lock Mode	k	m	00 - 01				

	COMMAND1	COMMAND2	DATA00 (Hexadecimal)	DATA01 (Hexadecimal)	DATA02 (Hexadecimal)	DATA03 (Hexadecimal)	DATA04 (Hexadecimal)	DATA05 (Hexadecimal)
21. Channel Tuning	m	a	physical program high	major program low	major low	minor high	minor low	attribute

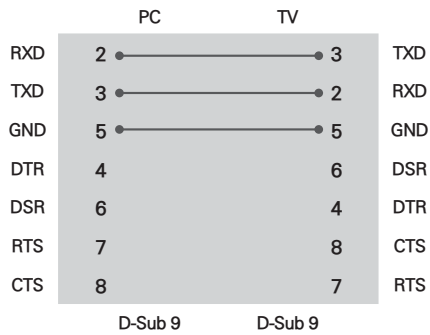
- When setting the 17 to 24, a menu does not appear on screen.
- Note : During USB operations such as Dvix or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

RS-232C configurations

7-Wire Configuration
(Serial female-female NULL modem cable)

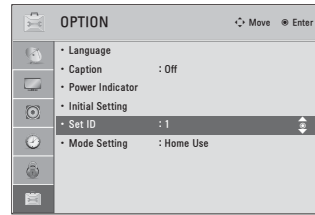


3-Wire Configurations(Not standard)



Set ID

Set ID number.



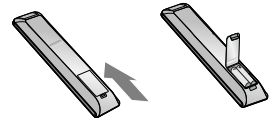
- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to **Set ID** and press **ENTER**.
- 4 Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.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

REMOTE CONTROL

The descriptions in this manual are based on the buttons of the remote control.

Please read this manual carefully and use the TV correctly.

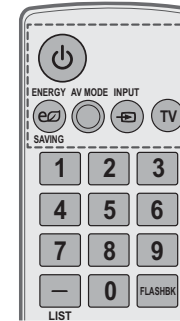
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control at the remote control sensor on the TV.



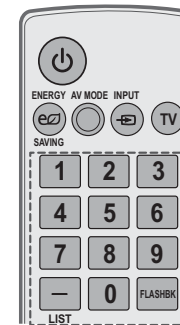
CAUTION

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

Make sure to point the remote control at the remote control sensor on the TV.



- POWER**
Turns the TV on or off.
- ENERGY SAVING** (See p.61)
Adjusts the Energy Saving settings.
- AV MODE** (See p.41)
Selects an AV mode.
- INPUT** (See p.41)
Rotates through inputs.
Also switches the TV on from standby.
- TV**
Returns to the last TV channel.

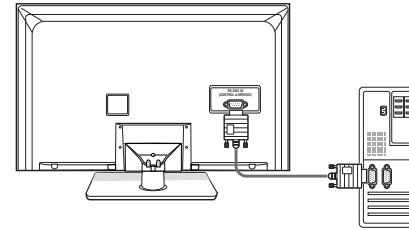


- Alphanumeric buttons**
Enters letters and numbers.
- LIST** (See p.37)
Accesses the saved channel list.
- (Dash)
Inserts a dash between numbers such as 2-1 and 2-2.
- FLASHBK**
Alternates between the two last channels selected (pressing repeatedly);
Selects a channel on the currently selected channel list.

EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

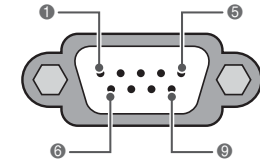
Connect the RS-232C (serial port) input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.
Connect the serial port of the control device to the RS-232C jack on the product back panel.



NOTE

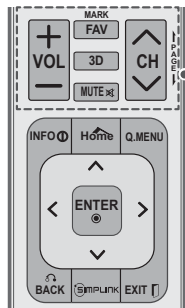
- RS-232C on this unit is intended to be used with third party RS-232C control hardware and software. The instructions below are provided to help with programming software or to test functionality using telenet software. RS-232C connection cables are not supplied with the product.

Type of connector; D-Sub 9-Pin Male

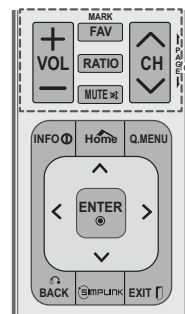


RS-232C IN
(CONTROL & SERVICE)

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

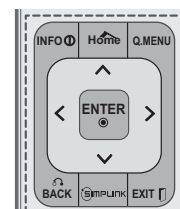


- VOL**
Adjusts the volume level.
- MARK**
Selects a menu or option.
FAV (See p.37)
Accesses your favorite channel list.
- 3D** (See p.44)
Used for viewing 3D video.
- MUTE**
Mutes all sounds.
- CH**
Scrolls through the saved channels.
- PAGE**
Moves to the previous or next screen.



- VOL**
Adjusts the volume level.
- MARK**
Selects a menu or option.
FAV (See p.37)
Accesses your favorite channel list.
- RATIO** (See p.40)
Resizes an image.
- MUTE**
Mutes all sounds.
- CH**
Scrolls through the saved channels.
- PAGE**
Moves to the previous or next screen.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
08	POWER	Remote control Button (Power On/Off)	0F	TV	Remote control Button
			DC	3D	Remote control Button
45	Q.MENU	Remote control Button	5B	EXIT	Remote control Button
43	Home	Remote control Button	D6	TV	Discrete IR Code (TV Input Selection)
0B	INPUT	Remote control Button	C4	POWER ON	Discrete IR Code (Only Power On)
10 - 19	Number Key 0-9	Remote control Button	C5	POWER OFF	Discrete IR Code (Only Power Off)
4C	- (Dash)/LIST	Remote control Button	5A	AV1	Discrete IR Code (AV1 Input Selection)
1A	FLASHBK	Remote control Button	D0	AV2	Discrete IR Code (AV2 Input Selection)
9	MUTE/DELETE	Remote control Button	BF	COMPONENT1	Discrete IR Code (Component1 Input Selection)
2	VOL +	Remote control Button	D4	COMPONENT2	Discrete IR Code (Component2 Input Selection)
3	VOL -	Remote control Button	D5	RGB-PC	Discrete IR Code (RGB-PC Input Selection)
0	CH ▲	Remote control Button	CE	HDMI1	Discrete IR Code (HDMI1 Input Selection)
1	CH ▼	Remote control Button	CC	HDMI2	Discrete IR Code (HDMI2 Input Selection)
1E	FAV/MARK	Remote control Button	E9	HDMI3	Discrete IR Code (HDMI3 Input Selection)
40	▲	Remote control Button	DA	HDMI4 ()	Discrete IR Code (HDMI4 Input Selection)
41	▼	Remote control Button	76	Ratio 4:3	Discrete IR Code (Only 4:3 Mode)
7	<	Remote control Button	77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
6	>	Remote control Button	AF	Ratio Zoom	Discrete IR Code (Only Zoom Mode)
44	ENTER	Remote control Button			
28	BACK	Remote control Button			
79	RATIO	Remote control Button			
BA ()	FREEZE	Remote control Button			
95	ENERGY SAVING	Remote control Button			
7E	SIMPLINK	Remote control Button			
AA	INFO	Remote control Button			
30	AV MODE	Remote control Button			
72	RED	Remote control Button			
71	GREEN	Remote control Button			
63	YELLOW	Remote control Button			
61	BLUE	Remote control Button			
B1	■	Remote control Button			
B0	▶	Remote control Button			
BA		Remote control Button			
8E	▶▶	Remote control Button			
8F	◀◀	Remote control Button			



INFO (See p.38)
Views the information of the **current program**.

Home
Accesses the main menus, or saves your input and exit the menus.

Q. MENU (See p.42)
Accesses the quick menu.

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

BACK
Allows the user to move back one step in an interactive application or other user interaction function.

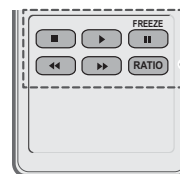
SIMPLINK (See p.76)
Accesses the AV devices connected to the TV;
Opens the SIMPLINK menu.

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



Colored buttons
These access special functions in some menus.

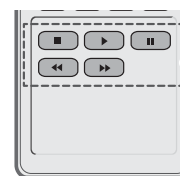
3D SETTING () (See p.46)
Used for viewing 3D video.



Control buttons
Controls the SIMPLINK compatible devices (USB, SIMPLINK).

FREEZE ()
Freezes the current frame (Not supported when using USB Mode and Simplink.).

RATIO (See p.40)
Resizes an image.



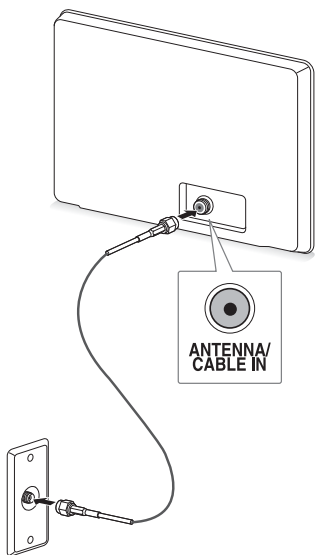
WATCHING TV

Connecting to an antenna or cable

Connect an antenna, cable, or cable box to watch TV referring to the following. The illustrations may differ from the actual items and a RF cable is optional.

Connecting an antenna or basic cable

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

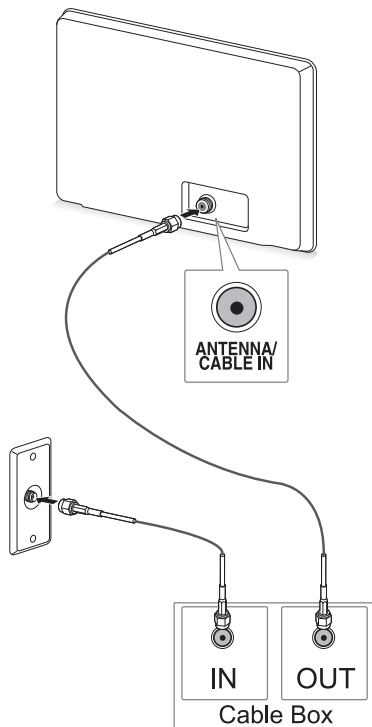


NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, aim the antenna to the proper direction.
- Visit <http://lgknowledgebase.com> for more information about the antenna and cable connection. Search for antenna.

Connecting a cable box

Connect the TV to a cable box and the cable box to a wall antenna socket with 2 RF cables (75 Ω).



CAUTION

- Make sure not to bend the copper wire of the RF cable.



- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.

IR CODES

(Depending on model)

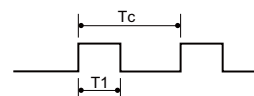
How to Connect

Connect your wired remote control to the Remote Control port on the TV.

Remote Control IR Codes

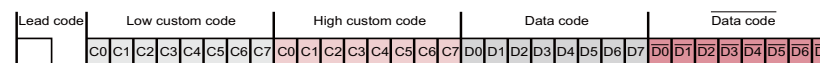
Output waveform

Single pulse, modulated with 37.917kHz signal at 455kHz

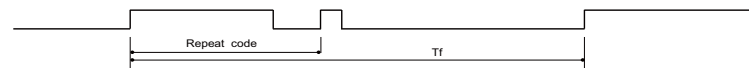


Frame configuration

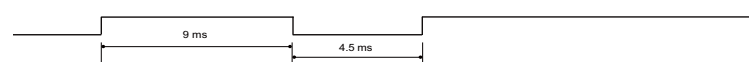
1st frame



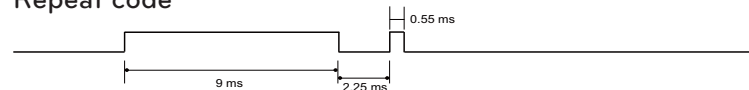
Repeat frame



Lead code



Repeat code

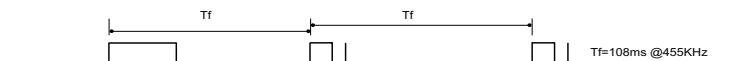


Bit description



Frame interval: Tf

The waveform is transmitted as long as a key is depressed.



Video Supported Formats

Extension name	File	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg		MPEG1, MPEG2	MP2, MP3, Dolby Digital, LPCM	1920 x 1080 @ 30p (Only Motion JPEG 640x480@30p)
dat		MPEG1	MP2	
ts, trp, tp		MPEG2, H.264, AVS, VC1	MP2, MP3, Dolby Digital, AAC, HE-AAC	
vob		MPEG1, 2	MP2, MP3, Dolby Digital, LPCM	
mp4, mov		MPEG4, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	AAC, HE-AAC, MP3	
mkv		H.264, MPEG-1,2,4	MP2, MP3, Dolby Digital, AAC HE-AAC, 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-beta1/2H.264	MP2, MP3, Dolby Digital, LPCM, ADPCM, AAC, HE-AAC	
Motion JPEG (avi, mp4, mkv)		JPEG	LPCM, ADPCM	
asf, wmv		VC1	WMA	
flv		Sorenson H.263, H264	MP3, AAC	

3D Supported Formats

	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI Input	720p	1280x720	44.96 / 45.00	59.94 / 60.00	Top & Bottom, Side by Side
			89.90 / 90.00		HDMI (V. 1.4 with HDMI 3D) Frame Packing
	1080p	1920x1080	33.72 / 33.75	24.00	Top & Bottom, Side by Side
			67.432 / 67.50		Top & Bottom, Side by Side, Checker Board Single Frame Sequential
			27.00	23.98 / 24.00	Top & Bottom, Side by Side, Checker Board
			53.95 / 54.00		HDMI (V. 1.4 with HDMI 3D) Frame Packing
1080p	1920x1080	33.75	30.00	Top & Bottom, Side by Side Checker Board	
		33.75	30.00	Top & Bottom, Side by Side Checker Board, MPO (Photo)	
USB Input	Resolution		Playable 3D video format		
	Other Resolution		Top & Bottom, Side by Side		
Component (For Plasma TV)	720p	1280x720	44.96 / 45.00	59.94 / 60.00	Top & Bottom, Side by Side
	1080i	1920x1080	33.72 / 33.75	59.94 / 60.00	
DTV	Signal		Playable 3D video format		
	720p, 1080i		Top & Bottom, Side by Side		

Turning the TV on for the first time

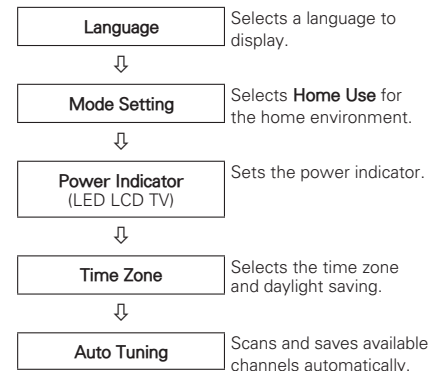
When you turn the TV on for the first time, the Initial setting screen appears. Select a language and customize the basic settings.

- 1 Connect the power cord to a power outlet. The Power indicator turns red and the TV switches to Standby mode.
- 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 **Initial Setting** by accessing **OPTION** in the main menu.

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



NOTE

- To display images in the best quality for your home environment, select **Home Use**.
- **Store Demo** is suitable for the retail environment.
- If you select **Store Demo**, any customized settings will switch **back** to the default settings of **Store Demo** in 3 minutes.
- **Power Indicator** feature is **disabled** in **Blue Demo mode**.

- 4 When the basic settings are complete, press **ENTER**.


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

- In Standby mode, press **POWER** to turn the TV on.
- Press **INPUT** and select TV.
- Control the TV using the following buttons while you are watching TV.

Button	Description
CH (▲, ▼)	Scrolls through saved channels.
LIST ¹	Selects a channel on the saved channel list.
0 - 9	Selects a channel by entering numbers.
VOL (+, -)	Adjusts the volume level.
MUTE	Mutes all sounds.
AV MODE ²	Selects an AV mode (See p.41).
●.MENU	Accesses the quick menus (See p.42).
FLASHBK	Alternates between the last two channels selected.
RATIO	Resizes an image (See p.40).
FREEZE	Freezes the current frame while you are watching TV ().

- The Lock icon () appears in front of a channel blocked with parental control.
- Each **AV mode** has the optimized image and sound settings. If you select **Off**, the image and sound settings will be restored to the previously customized settings.
- To turn the TV off, press **POWER**. The TV switches to Standby mode.

Managing channels

Setting up channels

Storing channels

To store channels automatically,

- Press **Home** to access the main menus.
- Press the Navigation buttons to scroll to **CHANNEL** and press **ENTER**.
- Press the Navigation buttons to scroll to **Auto Tuning** and press **ENTER**.
- Select **Start** to start automatic tuning. The TV scans and saves available channels automatically.

NOTE

- If the TV scans and saves channels, the previously saved channels will be overwritten.

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

To store channels manually,

- Press **Home** to access the main menus.
- Press the Navigation buttons to scroll **CHANNEL** and press **ENTER**.
- Press the Navigation buttons to scroll to **Manual Tuning** and press **ENTER**.
- Scroll through the channel types, and then add or delete channels.
- When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked channel, you will be prompted to enter your password to keep the channel scanned.
- You can store up to 1000 channels. The number of channels that you can store differs depending on the broadcasting signal environment.
- The channels are stored in the order of **DTV, TV, Cable DTV** and **Cable TV**.

RGB (PC), HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015
1280x1024	63.981	60.02
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.5	60.00

For 50/60PZ250, 22LV2500, 32/37/42/47/55LV3500, 32/42LK430, 32/37/42/47LK450, 42/47/55LK520

HDMI (DTV) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x480p	31.47 31.50	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	26.97 27.00 33.71 33.75 67.432 67.50	23.976 24.00 29.97 30.00 59.94 60.00

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	C _b	C _r
	Y	P _b	P _r

Component supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x480i	15.73 15.73	59.94 60.00
720x480p	31.47 31.50	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	26.97 27.00 33.71 33.75 67.432 67.50	23.976 24.00 29.97 30.00 59.94 60.00

MODELS		42LK520 (42LK520-UA)	47LK520 (47LK520-UA)
Dimensions (W x H x D)	With stand	1019.0 mm x 698.0 mm x 265.0 mm (40.1 inch x 27.4 inch x 10.4 inch)	1137.0 mm x 758.0 mm x 270.0 mm (44.7 inch x 29.8 inch x 10.6 inch)
	Without stand	1019.0 mm x 631.0 mm x 76.5 mm (40.1 inch x 24.8 inch x 3.0 inch)	1137.0 mm x 685.0 mm x 76.8 mm (44.7 inch x 26.9 inch x 3.0 inch)
Weight	With stand	15.1 kg (33.2 lbs)	20.3 kg (44.7 lbs)
	Without stand	13.4 kg (29.5 lbs)	18.3 kg (40.3 lbs)

MODELS		55LK520 (55LK520-UA)
Dimensions (W x H x D)	With stand	1329.0 mm x 872.0 mm x 330.0 mm (52.3 inch x 34.3 inch x 12.9 inch)
	Without stand	1329.0 mm x 796.0 mm x 96.5 mm (52.3 inch x 31.3 inch x 3.7 inch)
Weight	With stand	33.0 kg (72.7 lbs)
	Without stand	28.8 kg (63.4 lbs)

MODELS		32LV3520 (32LV3520-UC)	42LV3520 (42LV3520-UC)
Dimensions (W x H x D)	With stand		
	Without stand		
Weight	With stand		
	Without stand		

Editing your channel list

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **CHANNEL** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to **Channel Edit** and press **ENTER**.
- 4 Edit channels using the following buttons.

Button	Description
^	Highlights the channel type.
^, v, <, >	Scrolls through channel types or channels.
ENTER	Selects the highlighted channel to view.
CH (^, v)	Moves to the previous or next page.
Blue button	Adds or deletes a channel. The deleted channel displays in blue.
FAV	Registers or cancels the current channel in favorite channel list.
•.MENU	Selects your desired favorite channel group.
Yellow button	Blocks or unblocks a channel.

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

Selecting a channel on the channel list

- 1 Press **LIST** to access the channel list.
 - To move to the previous or next page, press **CH (^, v)**.
 - To tune to the "CHANNEL menu - Channel Edit, press **Blue** button.
- 2 Select a channel you want and press **ENTER**.

NOTE

- The Lock icon (🔒) appears in front of a channel blocked with parental control.
- If you select the blocked channel, you will be prompted to enter your password.

Using favorite channels

Add the channels that you watch frequently to the favorite list.

Setting up your favorite list

- 1 Select a channel to add to the favorite list.
- 2 Press **FAV**.
- 3 Press the Navigation buttons to select your desired favorite channel group.
- 4 Press the **Yellow** button to register or cancel the current channel in favorite channel list. Press the **Blue** button to move to **Channel Edit**.
- 5 Press the Navigation buttons to scroll to **Favorite**.
- 6 Press **ENTER** to add the selected channel to the favorite list.
- 7 When you are finished, press **EXIT**.

NOTE

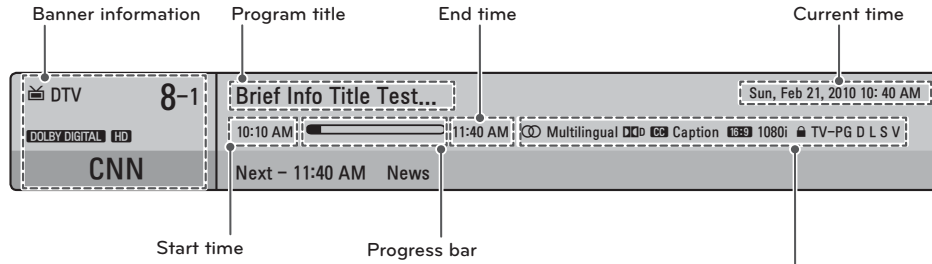
- You can also setup Favorite List in the **CHANNEL** menu - **Channel Edit**.

Selecting a channel on the favorite list

- 1 Press **FAV** to access the favorite list.
 - To move to the previous or next page, press **CH (^, v)**.
- 2 Select a channel you want and press **ENTER**.

Checking current program info

Press **ENTER** to view the information of the currently program while you are watching. The following information appears at the top of the screen.



Icon	Description	
Multilingual		The program contains two or more audio language services. You can change the audio language using the quick menu.
Dolby Digital		The program contains a Dolby Digital audio signal in TV and HDMI input sources.
Caption		The program contains one or more language caption services. You can change the caption language using the quick menu.
Aspect ratio		The original aspect ratio of the video is 4:3. The original aspect ratio of the video is 16:9 (wide).
Resolution		The video resolution is 720 x 480i. The video resolution is 720 x 480p. The video resolution is 1280 x 720p. The video resolution is 1920 x 1080i. The video resolution is 1920 x 1080p.
Rating		The program contains Rating information. See "LOCK Settings" on p.67.

MODELS		22LK330 (22LK330-UA)	26LK330 (26LK330-UA)
Dimensions (W x H x D)	With stand	526.0 mm x 377.0 mm x 164.9 mm (20.7 inch x 14.8 inch x 6.4 inch)	663.0 mm x 484.0 mm x 206.8 mm (26.1 inch x 19.0 inch x 8.1 inch)
	Without stand	526.0 mm x 331.0 mm x 65.0 mm (20.7 inch x 13.0 inch x 2.5 inch)	663.0 mm x 423.0 mm x 79.9 mm (26.1 inch x 16.6 inch x 3.1 inch)
Weight	With stand	4.3 kg (9.4 lbs)	7.3 kg (16.0 lbs)
	Without stand	4.0 kg (8.8 lbs)	6.2 kg (13.6 lbs)

MODELS		32LK330 (32LK330-UA)	
Dimensions (W x H x D)	With stand	805.0 mm x 583.0 mm x 224.0 mm (31.6 inch x 22.9 inch x 8.8 inch)	
	Without stand	805.0 mm x 528.0 mm x 79.9 mm (31.6 inch x 20.7 inch x 3.1 inch)	
Weight	With stand	10.8 kg (23.8 lbs)	
	Without stand	9.7 kg (21.3 lbs)	

MODELS		32LK430 (32LK430-UA)	42LK430 (42LK430-UA)
Dimensions (W x H x D)	With stand	799.0 mm x 555.0 mm x 207.0 mm (31.4 inch x 21.8 inch x 8.1 inch)	1023.0 mm x 685.0 mm x 261.0 mm (40.2 inch x 26.9 inch x 10.2 inch)
	Without stand	799.0 mm x 506.0 mm x 73.5 mm (31.4 inch x 19.9 inch x 2.8 inch)	1023.0 mm x 635.0 mm x 76.6 mm (40.2 inch x 25.0 inch x 3.0 inch)
Weight	With stand	9.1 kg (20.0 lbs)	15.1 kg (33.2 lbs)
	Without stand	8.1 kg (17.8 lbs)	13.5 kg (29.7 lbs)

MODELS		32LK450 (32LK450-UB)	37LK450 (37LK450-UB)
Dimensions (W x H x D)	With stand	795.0 mm x 568.0 mm x 207.0 mm (31.2 inch x 22.3 inch x 8.1 inch)	913.0 mm x 639.0 mm x 265.0 mm (35.9 inch x 25.1 inch x 10.4 inch)
	Without stand	795.0 mm x 504.0 mm x 73.5 mm (31.2 inch x 19.8 inch x 2.8 inch)	913.0 mm x 571.0 mm x 77.4 mm (35.9 inch x 22.4 inch x 3.0 inch)
Weight	With stand	9.2 kg (20.2 lbs)	12.8 kg (28.2 lbs)
	Without stand	8.1 kg (17.8 lbs)	11.1 kg (24.4 lbs)

MODELS		42LK450 (42LK450-UB)	47LK450 (47LK450-UB)
Dimensions (W x H x D)	With stand	1019.0 mm x 698.0 mm x 265.0 mm (40.1 inch x 27.4 inch x 10.4 inch)	1132.0 mm x 762.0 mm x 265.0 mm (44.5 inch x 30.0 inch x 10.4 inch)
	Without stand	1019.0 mm x 631.0 mm x 76.5 mm (40.1 inch x 24.8 inch x 3.0 inch)	1132.0 mm x 695.0 mm x 76.5 mm (44.5 inch x 27.3 inch x 3.0 inch)
Weight	With stand	15.1 kg (33.2 lbs)	19.0 kg (41.8 lbs)
	Without stand	13.4 kg (29.5 lbs)	17.3 kg (38.1 lbs)

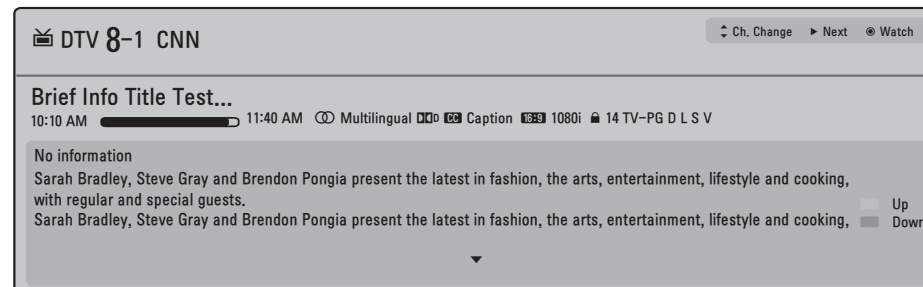
MODELS		19LV2500 (19LV2500-UA)	22LV2500 (22LV2500-UA)
Dimensions (W x H x D)	With stand	455.2 mm x 355.0 mm x 145.0 mm (17.9 inch x 13.9 inch x 5.7 inch)	471.2 mm x 365.9 mm x 155.4 mm (18.5 inch x 14.4 inch x 6.1 inch)
	Without stand	455.2 mm x 313.1 mm x 40.9 mm (17.9 inch x 12.3 inch x 1.6 inch)	471.2 mm x 315.5 mm x 34.4 mm (18.5 inch x 12.4 inch x 1.3 inch)
Weight	With stand	2.7 kg (5.9 lbs)	3.4 kg (7.4 lbs)
	Without stand	2.5 kg (5.5 lbs)	3.2 kg (7.0 lbs)

MODELS		26LV2500 (26LV2500-UA)	32LV2500 (32LV2500-UA)
Dimensions (W x H x D)	With stand	635.6 mm x 475.0 mm x 169.0 mm (25.0 inch x 18.7 inch x 6.6 inch)	777.4 mm x 551.3 mm x 234.0 mm (30.6 inch x 21.7 inch x 9.2 inch)
	Without stand	635.6 mm x 413.5 mm x 40.9 mm (25.0 inch x 16.2 inch x 1.6 inch)	777.4 mm x 501.3 mm x 35.4 mm (30.6 inch x 19.7 inch x 1.3 inch)
Weight	With stand	5.4 kg (11.9 lbs)	11.9 kg (26.2 lbs)
	Without stand	5.0 kg (11.0 lbs)	10.7 kg (23.5 lbs)

MODELS		32LV3500 (32LV3500-UA)	37LV3500 (37LV3500-UA)
Dimensions (W x H x D)	With stand	764.1 mm x 544.7 mm x 240.0 mm (30.0 inch x 21.4 inch x 9.4 inch)	763.1 mm x 545.3 mm x 240.0 mm (30.0 inch x 21.4 inch x 9.4 inch)
	Without stand	764.1 mm x 483.6 mm x 40.4 mm (30.0 inch x 19.0 inch x 1.5 inch)	763.1 mm x 483.1 mm x 40.4 mm (30.0 inch x 19.0 inch x 1.5 inch)
Weight	With stand	11.2 kg (24.6 lbs)	13.1 kg (28.8 lbs)
	Without stand	9.4 kg (20.7 lbs)	11.3 kg (24.9 lbs)

MODELS		42LV3500 (42LV3500-UA)	47LV3500 (47LV3500-UA)
Dimensions (W x H x D)	With stand	997.2 mm x 684.2 mm x 256.6 mm (39.2 inch x 26.9 inch x 10.1 inch)	1107.0 mm x 745.5 mm x 256.3 mm (43.5 inch x 29.3 inch x 10.0 inch)
	Without stand	997.2 mm x 614.7 mm x 40.1 mm (39.2 inch x 24.2 inch x 1.5 inch)	1107.0 mm x 676.5 mm x 40.1 mm (43.5 inch x 26.6 inch x 1.5 inch)
Weight	With stand	15.5 kg (34.1 lbs)	20.9 kg (46.0 lbs)
	Without stand	13.3 kg (29.3 lbs)	18.7 kg (41.2 lbs)

MODELS		55LV3500 (55LV3500-UA)
Dimensions (W x H x D)	With stand	1285.9 mm x 847.3 mm x 338.0 mm (50.6 inch x 33.3 inch x 13.3 inch)
	Without stand	1285.9 mm x 777.8 mm x 40.1 mm (50.6 inch x 30.6 inch x 1.5 inch)
Weight	With stand	25.5 kg (56.2 lbs)
	Without stand	21.4 kg (47.1 lbs)



Button	Description
INFO	Shows current channel information.
< or >	Shows previous or next channel information.
▲ or ▼	Changes a channel.

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 **MENU** or accessing **Aspect Ratio** in the **PICTURE** menu.
- The available ratio varies depending on the input source.

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



- Just Scan:** Displays video images in the original size without cutting off the edges.



NOTE

- If you select **Just Scan**, you may see image noises at the edge or edges of the screen.
- The input sources: DTV, Component, HDMI-DTV, and DVI-DTV (720p/1080i/1080p) support Just Scan.

- Set By Program:** Displays images in the same aspect ratio as the original image.

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



- Zoom:** Formats 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 **<** or **>** to stretch an image vertically.
 - Press **▲** or **▼** to move the zoom focus up or down.

- Cinema Zoom:** Formats an image to the cinemscope ratio, 2.35:1.
- To change the ratio of the cinema zoom, press **<** or **>** and its range is from 1 to 16.
- To move the zoom focus up or down, press **▲** or **▼**.



NOTE

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

SPECIFICATIONS

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

Power requirement	AC100 - 240 V - 50/60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 - 40 °C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 - 60 °C
	Storage Humidity	Less than 85 %

MODELS		42PW340 (42PW340-UB)	50PW340 (50PW340-UB)
		42PW350 (42PW350-UE)	50PW350 (50PW350-UE)
		42PW350U (42PW350U-UC)	50PW350U (50PW350U-UC)
		42PW350R (42PW350R-UA)	50PW350R (50PW350R-UA)
Dimensions (W x H x D)	With stand	991.8 mm x 667.0 mm x 230.5 mm (39.0 inch x 26.2 inch x 9.0 inch)	1176.1 mm x 774.7 mm x 289.8 mm (46.3inch x 30.5 inch x 11.4 inch)
	Without stand	991.8 mm x 613.8 mm x 52.5 mm (39.0 inch x 24.1 inch x 2.0 inch)	1176.1 mm x 716.5 mm x 52.5 mm (46.3 inch x 28.2 inch x 2.0 inch)
Weight	With stand	21.5 kg (47.3 lbs)	29.6 kg (65.2 lbs)
	Without stand	20.0 kg (44.0 lbs)	27.3 kg (60.1 lbs)
Current Value / Power consumption		2.3 A / 230 W	3.0 A / 300 W

MODELS		50PZ200 (50PZ200-UA)	60PZ200 (60PZ200-UA)
Dimensions (W x H x D)	With stand	1171.9 mm x 770.9 mm x 289.8 mm (46.1 inch x 30.3 inch x 11.4 inch)	1390.8 mm x 905.2 mm x 334.7 mm (54.7 inch x 35.6 inch x 13.1 inch)
	Without stand	1171.9 mm x 712.2 mm x 52.5 mm (46.1 inch x 28.0 inch x 2.0 inch)	1390.8 mm x 835.5 mm x 52.5 mm (54.7 inch x 32.8 inch x 2.0 inch)
Weight	With stand	29.8 kg (65.6 lbs)	42.6 kg (93.9 lbs)
	Without stand	27.5 kg (60.6 lbs)	38.5 kg (84.8 lbs)

Video

Problem	Resolution
An image displays in black and white or the color quality is poor.	<ul style="list-style-type: none"> Adjust the color setting in the Picture menu (See p.61). 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	<ul style="list-style-type: none"> Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	<ul style="list-style-type: none"> Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Adjust the brightness and contrast in the Picture menu (See p.61).
"No Signal" appears on the screen.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Several pixels in red, green, white, or black may appear on the screen that can attribute to the characteristics of the LCD panel. This is normal.
The display offset is wrong.	<ul style="list-style-type: none"> Adjust the position setting in the Picture menu (See p.61). 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.	<ul style="list-style-type: none"> Check the video cable connections.
Horizontal noises appear or characters blur.	<ul style="list-style-type: none"> Adjust the Phase setting in the Picture menu. See "SCREEN (RGB-PC)" on p.62.
The reception on some channels is poor	<ul style="list-style-type: none"> 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 are local interferences such as an electrical appliance or power tool.

Changing AV modes

Each **AV mode** has optimized image and sound settings.

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

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

Using the input list

Selecting an input source

- Press **INPUT** to access the input sources.
 - The connected device displays on each input source.
- Press the Navigation buttons to scroll to one of the input sources and press **ENTER**.



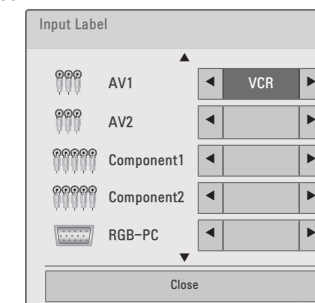
Input source	Description
TV	Watch TV over the air, cable, and digital cable broadcast.
USB	Play media files from a thumb drive.
AV	Watch video from a VCR or other external devices.
Component	Watch video from a DVD or other external devices, or through a digital set-top box.
RGB-PC	Use the TV as a computer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

The disconnected input sources will be gray.

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

Adding an Input label

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



- Press **INPUT** to access the input sources.
- Press the Navigation buttons to scroll to one of the input sources.
- Press the **Blue** button.
- Press the Navigation buttons to scroll to one of the input labels and press **ENTER**.
- 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 **ENTER**.
- 3 Input password.
- 4 Press the Navigation buttons to scroll to **Key Lock** and press **ENTER**.
- 5 Select **On** to activate the **Key lock** feature.
- To deactivate the **Key lock** feature, select **Off**.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

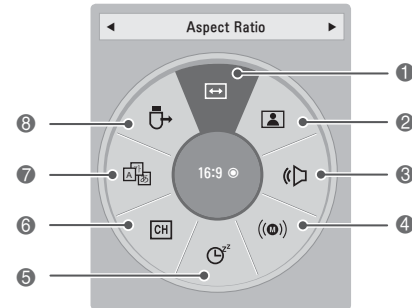
NOTE

- 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, **INPUT**, **CH** (**▲**, **▼**) 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 frequently used menus.

- 1 Press **●**. **MENU** to access the quick menus.
- 2 Press the Navigation buttons to scroll through the following menus.



Menu	Description
1 Aspect Ratio	Changes the image size (16:9, Just Scan, Set By Program, 4:3, Zoom, Cinema Zoom).
2 Picture Mode	Changes the image mode (Intelligent sensor ¹ , Vivid, Standard, APS ¹ , Cinema, Sport, Game, Expert1, Expert2).
3 Sound Mode	Changes the sound mode (Standard, Music, Cinema, Sport, Game).
4 Multi Audio	Changes the audio language (Digital signal).
SAP	Changes the MTS sound (Analog signal).
5 Sleep Timer	Sets the length of time until the TV to turns off.
6 Del/Add	Edits the channels to add or delete the channel.
7 Caption	Activates or deactivate the subtitles.
8 USB Device	Ejects a USB device when a USB device is connected.

- 1 Depending on model

NOTE

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

- 3 Press the Navigation buttons to scroll to the option you want.
- 4 When you are finished, press **●**. **MENU**.

TROUBLESHOOTING

General

Problem	Resolution
Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖). • Check if the appropriate input mode such as TV or VCR is set for using the remote control.
No image display and no sound is produced.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • The image is muted during the product startup 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.	<ul style="list-style-type: none"> • See "Connection Overview" on p.72 and connect an external device.
The TV turns off suddenly.	<ul style="list-style-type: none"> • Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. See "Sleep Timer" on p.66. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Audio

Problem	Resolution
No sound is produced while images are displaying.	<ul style="list-style-type: none"> • Press VOL + 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.	<ul style="list-style-type: none"> • 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.

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 as these may damage the screen's finish and cause discolorations.

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.

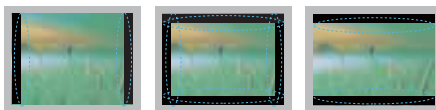
CAUTION

- 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.

Using the customer support

Testing the Picture / Sound

To execute picture and sound tests.

- 1 Press **Home** to access the main menus.
- 2 Press the **Red** button to access **Customer Support**.
- 3 Press the Navigation buttons to scroll **Picture Test** or **Sound Test** and press **ENTER**.
- 4 If you have any problem, press the Navigation buttons to scroll to **Yes** and press **ENTER**.
- 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 access **Customer Support** and press **ENTER**.
- 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**.

3D IMAGING (FOR 3D TV)

3D Technology

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

WARNING

- When viewing 3D imaging, watch the TV from an effective viewing angle and within the appropriate distance. The appropriate angle and distance are provided in this manual. If you exceed this viewing angle or distance, you may not be able to view the 3D imaging. Furthermore, the 3D imaging may not display if it is viewed while you are lying down (For LED LCD TV).
- 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.

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 color.
- Unavailable devices display in grey.

4 Control the selected AV device.

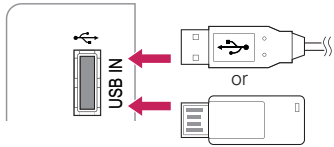
- Direct Play: After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
- Select AV device: Enables you to select one of the AV devices connected to the TV.
- Disc playback: Control connected AV devices by pressing the Navigation buttons,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

NOTE

- If you change the input source by pressing **INPUT**, the progressing function of the SIMPLINK device will stop.
- If you select a device that has the home 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.

Connecting to a USB

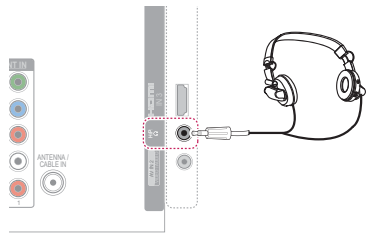
Connect a USB storage device such as a USB flash memory, external hard drive, MP3 player or a USB memory card reader to the TV and access the My media menu to use various multimedia files. See "Connecting USB storage devices" on p.48 and see "Browsing files" on p.76.



Connecting to a Headphone



Listen to the sound through a headphone.



NOTE

- AUDIO menu options 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: 10 mW to 15 mW
- Headphone jack size: 0.32 cm (1/8 inch)

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.

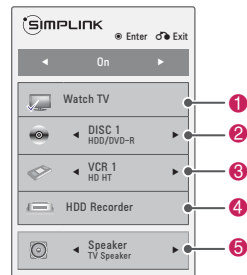
Connect one end of the HDMI cable to the HDMI/DVI IN or HDMI IN terminal on the rear of the TV and the other end to the SIMPLINK device.

NOTE

- If the connected device does not support HDMI-CEC, the SIMPLINK feature is unavailable.
- To operate SIMPLINK, you should use an High Speed HDMI cable with the CEC (Consumer Electronics Control) function.

Activating and Using the SIMPLINK menus

- 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 **ENTER**.



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 program.
- The TV may flicker slightly if the 3D imaging is displayed under 3 wavelength fluorescent light (50 Hz - 60 Hz) or magnetic fluorescent lamp (50Hz - 60 Hz). In such instances, it is recommended to turn the lights off.
- If there is an obstacle between the TV and the 3D glasses, the 3D imaging may not display properly.
- Do not use the TV in close proximity to other electronic and RF equipments.
- In Analog TV, 3D Imaging does not work.
- 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.

When using 3D Glasses

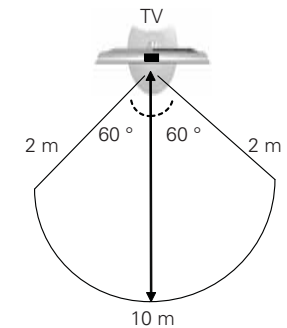
CAUTION

- 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





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

Viewing Distance	Viewing Angle
2 m - 10 m (6.5 ft - 32.8 ft)	120° (When the viewing distance is 2 m (6.5 ft))

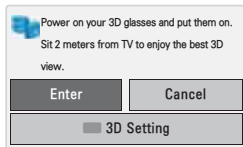


Viewing 3D Imaging

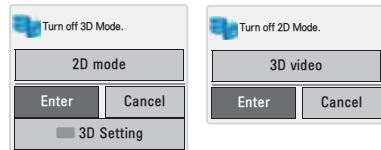
- 1 Play the video produced in 3D.
- 2 Press **3D**.
- 3 Press the Navigation buttons to scroll the **3D video** or **2D video** and press **ENTER**.
- 4 Press the Navigation buttons to select the shape and press **ENTER**.

Mode	Description
2D » 3D	Changed from 2D imaging to 3D imaging.
Side by Side	
Top & Bottom	
Checker Board	
Frame Sequential	

- 5 Wear the 3D glasses.
- 6 Press the Navigation buttons to scroll to **Enter** and press **ENTER**.

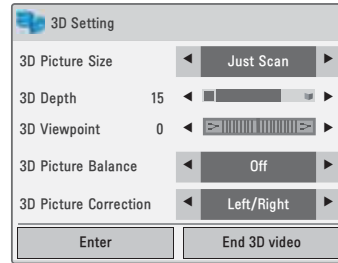


- 7 Press the **3D** button to **Turn off 3D mode** or **Turn off 2D mode**.



Using 3D quick menu option

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

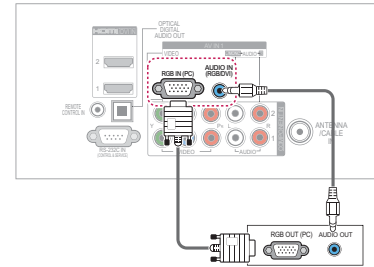


Button	Description
3D Picture Size	Cuts off the outer edges of the picture and stretch it to fit the full screen in 3D mode.
3D Depth	Adjusts the distance between the object and the background in the picture to enhance the 3D effect in 2D to 3D mode.
3D Viewpoint	Brings the picture (including both the object and background images) to the front or back to enhance the 3D effect in 3D mode.
3D Picture Balance	Adjusts the color 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.

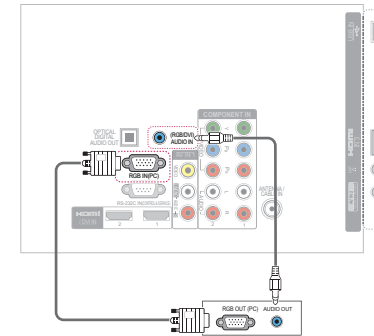
RGB Connection

Transmits the analog 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 optional audio cable.

PW350 series



LV3500 series



Connecting to an Audio System

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

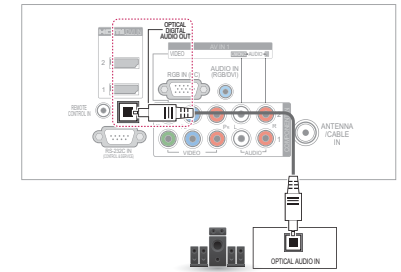


- If you use an optional external audio device instead of the built-in speaker, set the TV speaker feature to off (See p.65).

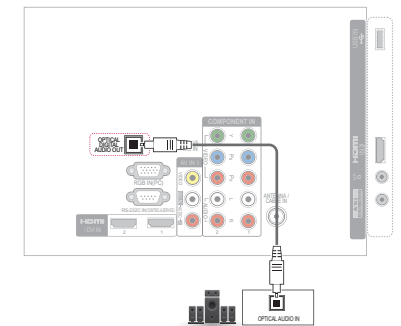
Digital optical audio connection

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.

PW350 series



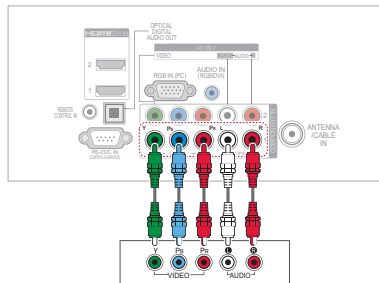
LV3500 series



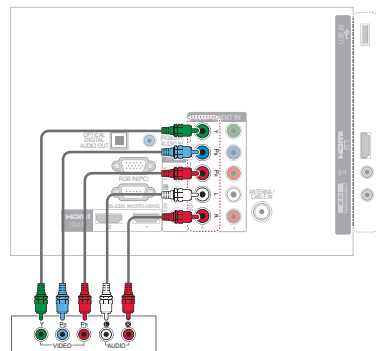
Component Connection

Transmits the analog 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.

PW350 series



LV3500 series



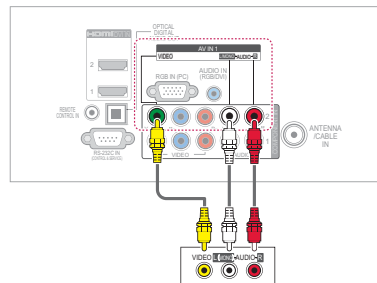
NOTE

- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color. Check to ensure the cable are matched with the corresponding color connection.

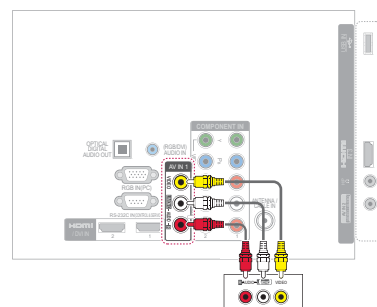
Composite Connection

Transmits the analog 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.

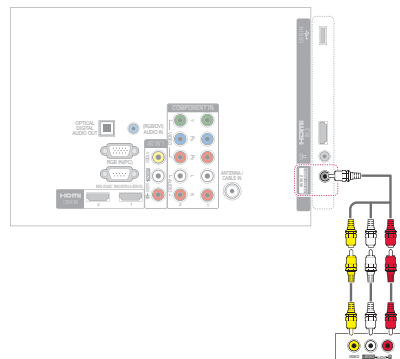
PW350 series



LV3500 series



(For only LV3500 series)



CAUTION

- Some menus may not work while watching the TV in 3D.
- The 3D imaging mode is disabled automatically when switching DTV channels.
- 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.

NOTE

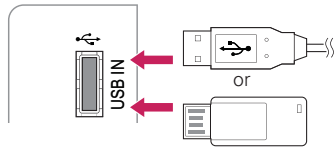
- Energy Saving is disabled while playing in 3D.

ENTERTAINMENT

Connecting USB storage devices

Connect USB storage devices such as a USB flash drive, external hard drive, or MP3 player to the TV and use multimedia features (See "Browsing files" on p. 49).

Connect a USB flash drive or USB memory card reader to the TV as shown in the following illustration.



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

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

CAUTION

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

Tips for using USB storage devices

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

- This part of MAKING CONNECTIONS mainly uses picture for PW350, LV3500 series.

Connecting to a HD receiver, DVD, or VCR player

Connect a HD receiver, DVD, or VCR player to the TV and select an appropriate input mode.

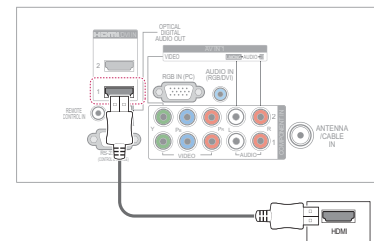
HDMI Connection

Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown in the following illustration.

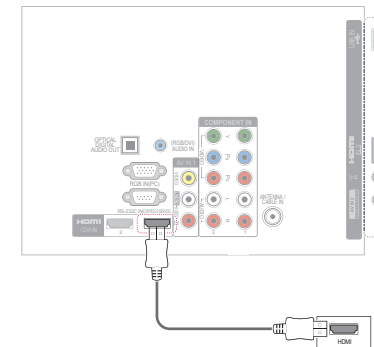
NOTE

- Use a High Speed HDMI™ Cable (v.1.3, HDMI™ CEC Support).
- Use the latest High Speed HDMI™ Cable with CEC (Customer Electronics Control) function.

PW350 series



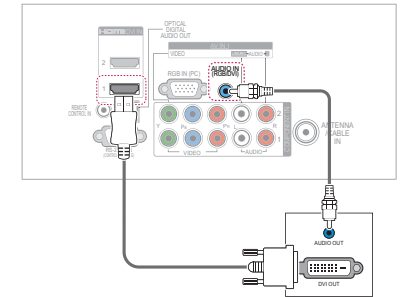
LV3500 series



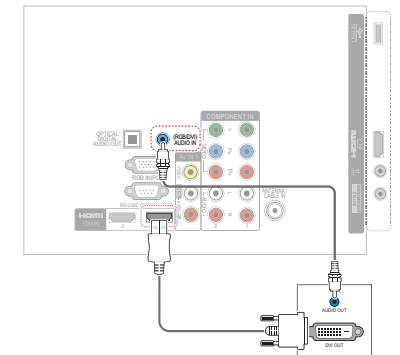
DVI to HDMI Connection

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 optional audio cable.

PW350 series



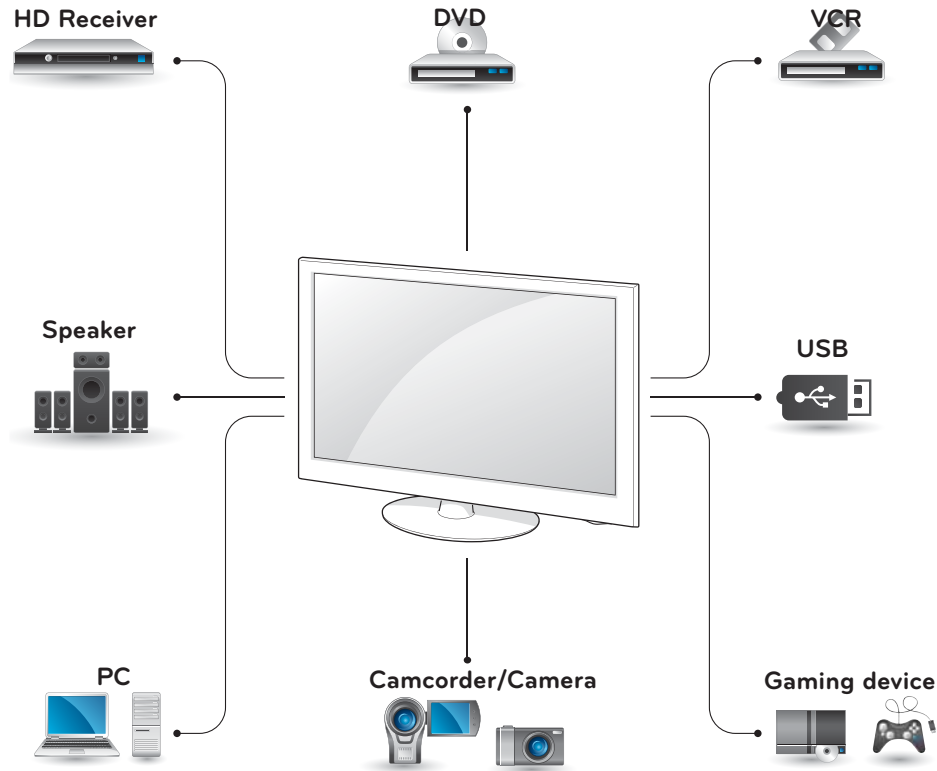
LV3500 series



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.



- HDMI – See p.73
- DVI – See p.73
- Component – See p.74
- Composite – See p.74
- Digital – See p.75
- RGB – See p.75
- Memory storage – See p.76
- Memory card reader – See p.76

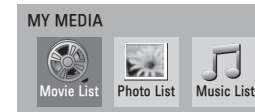
NOTE

- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.

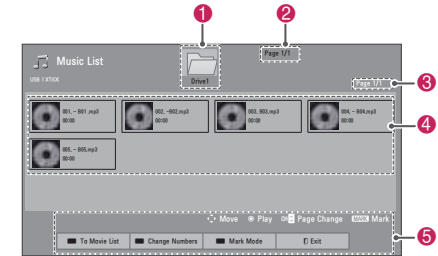
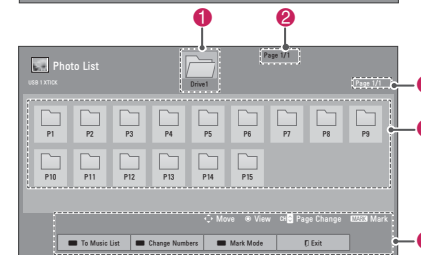
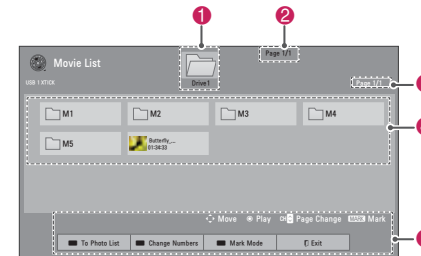
Browsing files

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

- 1 Connect a USB storage device.
- 2 Press **Home** to access the main menus.
- 3 Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- 4 Press Navigation buttons to scroll to **MOVIE LIST**, **PHOTO LIST**, or **MUSIC LIST** and press **ENTER**.



- 5 Select **Drive1** to access the connected USB storage device.
- 6 Press the Navigation buttons to select a folder/file you want.



No.	Description
1	Moves to the previous folder.
2	Current page number/total number of pages
3	Current page number/total number of pages
4	Contents under the folder focused on 1
5	Available buttons on the remote control
Button	Description
Green button	Moves to Photo List , Music List , or Movie List .
Yellow button	Change Numbers : Changes the number or thumbnails displayed at a time.
Blue button	Allows you to mark certain files.

Tips for using USB storage devices

Type	Supported File Formats
Video	<ul style="list-style-type: none"> • MPG, MPEG, DAT, TS, TRP, TP, VOD, MP4, MOV, MKV, DivX, AVI, Motion JPEG (AVI, MP4, MKV), ASF, WMV, FLV • Resolution: under 1920 pixel (width) x 1080 pixel (height) • Frame Rate: under 30 frame/sec (1920 x 1080), under 60 frame/sec (1280 x 720) • Max bitrate of playable movie file: 20 Mbps (Mega bit per second) • Bit rate of audio format: within 32 kbps to 320 kbps (MP3) • Supported subtitle format: *.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX)

Type	Supported File Formats			
Photo	<ul style="list-style-type: none"> JPG Available size Baseline: 64 pixel (W) x 64 pixel (H) - 15360 pixel (W) x 8640 pixel (H) Progressive: 64 pixel (W) x 64 pixel (H) - 1920 pixel (W) x 1440 pixel (H) * Do not use the progressive option when saving JPG files on your PC. It may take some time to open high-resolution images in full screen. 			
	For 3D TV			
		File Extensions	Item	Profile
	2D	jpeg jpg jpe	Supported file format	<ul style="list-style-type: none"> SOF0: baseline SOF1: Extend Sequential SOF2: Progressive
		Photo size	<ul style="list-style-type: none"> Min: 64 x 64 Max - Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H) 	
3D	mpo	Supported file format	<ul style="list-style-type: none"> mpo 	
		Photo size	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> MP3 Bit rate range 32 Kbps - 320 Kbps Sampling rate (Sampling Frequency) MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz MPEG2 layer 3: 16 kHz, 22.05 kHz, 24 kHz MPEG2.5 layer 3: 8 kHz, 11.025 kHz, 12 kHz * A copy-protected file will not play. 			

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, camcorders or cameras, gaming devices, and other external devices.

! NOTE

- If you record a TV program 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 of 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.

Connect external devices to the TV by referring to the following table.

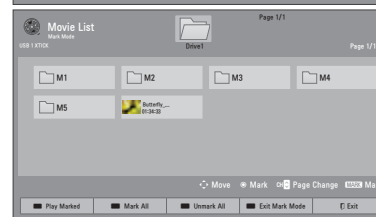
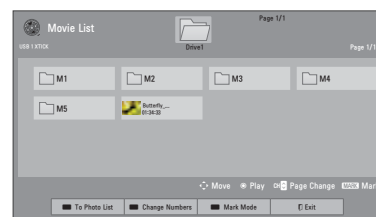
Connection type	Video		Audio	
	Digital	Analog	Digital	Analog
HDMI (highly recommended)	○	-	○	-
DVI	○	-	-	○
Component	-	○	-	○
Composite	-	○	-	○
RGB	-	○	-	○
Optical audio	-	-	○	-

Setting	Description	
ISM Method ()	Prevents image sticking or removes a ghost image. A frozen still picture displayed on the screen for prolonged periods can result in a ghost image.	
	Mode	
	Normal Sets it if image sticking is never a problem.	
	Orbiter Avoids a ghost image on the screen. The image will move every 2 minutes to help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen.	
	Color Wash Removes a ghost image on the screen. The color block with the screen moved a little and the white pattern are alternately displayed. It is difficult to see the after image on all colors. Once it has been corrected it will not be visible in any color.	
White Wash Removes a ghost image on the screen. Use sparingly. Watch the TV normally for a while before using this feature to see if the ghost image disappears on its own.		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>NOTE</p> <ul style="list-style-type: none"> An excessive ghosted image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button. </div>		
Initial Setting	Resets the TV to factory default and erases all stored channels. Customizes the TV settings to suit your preference. The initial setup screen will appear when you turn on the TV for the first time. When selecting Yes , the TV turns off automatically and starts factory reset.	
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>NOTE</p> <ul style="list-style-type: none"> When selecting "Lock System - On" in the LOCK menu, the message to enter the password appears. If you forget your password, press "0-3-2-5" on the remote control. </div>	
	Setting	
	Language Selects a desired language.	
	Mode Setting Selects Home Use for the home environment. Selects Store Demo for the retail environment. Selects Demo Mode to set to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons.	
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p>NOTE</p> <ul style="list-style-type: none"> When selecting Store Demo, Demo Mode will be activated. </div>	
	Power Indicator (LED LCD TV) Turns the power indicator light on or off.	
	Time Zone Sets the time zone and daylight saving.	
	Auto Tuning Scans and saves available channels automatically.	
	Set ID Adds an ID to the connected devices.	
Mode Setting	Default selection is "Home Use". We recommend setting the TV to "Home Use" mode for the best picture in your home environment.	
	Option	
	Home Use Selects it for the home environment.	
	Store Demo Selects it for the retail environment.	
	Demo Mode Sets to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons.	

Viewing Videos



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

- Press **Home** to access the main menus.
- Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- Press the Navigation buttons to scroll to **Movie List** and press **ENTER**.
- Select **Drive1** to access the connected USB storage device.
- Press the Navigation buttons to scroll to a folder/file you want and press **ENTER**.
- Play a movie by using the following menus/buttons.










Button	Description
Navigation button	Scrolls through the files.
ENTER	Plays the highlighted file or enters the mark mode.
CH (▲, ▼)	Moves to the previous or next page.
MARK	Enters the mark mode.
Menu	Description
Play Marked	Plays the selected video.
Mark All	Selects all files.
Unmark All	Clears all of your selections.
Exit Mark Mode	Exit the Mark Mode.

NOTE

- : Abnormal files are displayed using this graphic.
- : Non-supported files are displayed using this graphic.

- 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.
	Plays videos in slow motion.
	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	Increases or decreases the brightness of your screen.
●.MENU	Shows the Option menu (See p.52).
AV MODE	Selects the desired source.
BACK	Hides the menu on screen. To see the menu again, press ENTER button to display.
EXIT	Returns to TV viewing.

Tips for playing video files

- Some user-created subtitles may not work properly.
- Subtitles may not display some special characters or HTML tags.
- Subtitles in the non-supported languages are unavailable.
- The time information in an external subtitle file should be arranged in ascending order to play.

- The screen may suffer from temporary interruptions such as image stoppage or faster playback when you change the audio language.
- If you play a damaged video file, the video file may not be played correctly or some player functions may not be unavailable.
- The TV may not properly play the video files produced with certain encoders.
- If the recorded file does not have video or audio, either video or audio is not outputted
- If the TV plays the recorded file without video or audio, either video or audio is not outputted.
- The TV may not smoothly play the video files with a resolution higher than the supported resolution for each frame.
- The TV may not properly play the video files not included on the specified type and format.
- The TV may not play the files encoded with GMC (Global Motion Compensation) or quarter-pel motion estimation.
- The TV supports the only files saved in ASCII code in subtitles.
- The maximum number of characters displayed on each subtitle line is 250 (Korean), 500 (English), and 500 (Numbers).
- The TV supports the only 10,000 sync blocks within the subtitle file.
- The TV supports the H.264 codec up to the profile level 4.1.
- The TV does not support DTS audio codec.
- The TV cannot play a video file whose size is larger than 30 GB.
- If you play a video file through the USB connection that does not support the high speed, the video player may not work properly.
- The TV supports a USB storage device whose version is lower than 2.0. However, the USB storage device may not work properly in the movie list.
- The video file and its subtitle should be in the same folder and the name of the video file and subtitle should be identical.
- You can adjust the image by using **ENERGY SAVING** and **AV MODE**. But you cannot customize image options of each mode.
- The TV may not play the video files in the supported file format depending on the encoded condition.

- The TV will not play the video files that has a damaged index or no index.

Q.MENU options for movie list

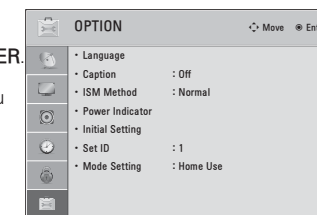
- 1 Press **●**. **MENU**.
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to movie list option and press **ENTER**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **ENTER**.

Set Video Play.

Option	Description	
Picture Size	Selects your desired picture format for videos. <ul style="list-style-type: none"> • Full Mode: Files are played in full screen mode according to the aspect ratio of video. • Original Mode: Files are played in their native size. 	
Audio Language	Changes the Language Group of the audio for video files. Files with a single audio track cannot be selected.	
Subtitle Language	The subtitles can be turned on or off.	
Language	Activated for SMI subtitles and can select the language within the subtitle.	
Code Page	Subtitle font selection. When set to default, contents are displayed in the language set in "Option - Language - Menu Language."	
	Subtitle Language Group	Supported Language
	Latin1	English, Spanish, French
	Korean	English, Korean
Sync	If the video is not synchronized with the captions, it can be adjusted by 0.5 second.	
Position	Move the location of the subtitles.	
Size	Changes the subtitle font size.	
Repeat	Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. When turned off, if the next file name is similar to the previous file, it can be played sequentially.	

OPTION Settings

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **ENTER**.
- 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 desired language.	
	Option	
	Menu Language	Selects a language for the display text.
	Audio Language	Selects an audio language for your program. This feature operates only in the DTV or CADTV mode.
Caption	Sets whether to display captions and customize your option in each mode.	
	Mode	
	CC 1-4 (Closed Captioning)	Displays the audio portion of a TV program as text on the TV screen. CC1 is the most common mode in use.
	Text 1-4	- Field 1 data channels: two Captions (CC3, CC4) and two Text (T1, T2). - Field 2 data channels: two Captions (CC3, CC4) and two Text (T1, T2).
	Service 1-6	This is only available for the digital broadcasting system.
	Option (For DTV, CADTV)	
	Size	Selects the word size.
	Font	Selects a typeface for the text.
	Text Color	Selects a color for the text.
	Text Opacity	Adjusts the opacity for the text color.
	Bg Color	Selects a background color.
Bg Opacity	Adjusts the opacity for the background color.	
Edge Type	Selects an edge type.	
Edge Color	Selects a color for the edges.	
Power Indicator (LED LCD TV)	Sets to turn on or off the indicator light on the TV.	
	Option	
	Standby Light	Sets to turn on or off the indicator light in Standby mode.
	Power Light	Sets to turn on or off the indicator light when you turn on the power.

Setting	Description	
TV Rating- General (Depending on model)	Blocks the TV programs that you want based on the ratings by using the Parental Control Function (V-Chip). <div style="border: 1px solid black; padding: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> The V-Chip electronically reads TV program ratings and allows parents to block program that are unsuitable for children. </div>	
	Rating	
	Age	TV-G (General audience, suitable for all ages) TV-PG (Parental guidance suggested, containing material that are unsuitable for younger children) TV-14 (Parents strongly cautioned, containing material that are unsuitable for children age 14 and under) TV-MA (Mature audience only, unsuitable for children age under 17)
	Dialog (suggestive dialogue)	TV-PG or TV-14
	Language (coarse language)	TV-PG, TV-14, or TV-MA
	Sex (sexual situation)	TV-PG, TV-14, or TV-MA
	Violence	TV-PG, TV-14, or TV-MA
TV Rating- English (Depending on model)	Selecting Canadian English rating system.	
	Rating	
	E	Exempt
	C	Children
	C8+	Children eight years and older
	G	General programming, suitable for all audiences
	PG	Parental Guidance
	14+	Viewers 14 years and older
	18+	Adult programming
Blocking Off	Permits all programs	
TV Rating- French (Depending on model)	Selecting Canadian French rating system.	
	Rating	
	E	Exempt
	G	General
	8ans+	General-Not convenient for little children
	13ans+	Not convenient for children of 13 years and younger
	16ans+	Not convenient for children of 16 years and younger
	18ans+	This programs is only for adults
Blocking Off	Permits all programs	
Downloadable Rating	This function operates only when TV has received Region5 Rating data. The name of the rating option may differ. <div style="border: 1px solid black; padding: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> This feature is available only for digital channels. </div>	
Input Block	Blocks the input sources.	
Key Lock	Locks or unlocks the buttons on the TV.	

NOTE

- When replaying a video file after stopping, select "Yes" to restart where it previously stopped.
- If continuous series files exist within the folder, the next file will automatically be played. But, this excludes cases when the Repeat function of Movie List Option is turned "On" (See p.52) or when set as **Play Marked**.

Set Video.

Allows you to change Video presets. (Refer to "PICTURE Settings" on p.61).

Set Audio.

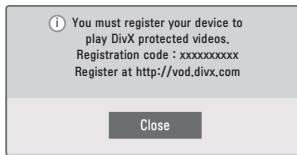
Allows you to change Video presets. (Refer to "AUDIO Settings" on p.65).

DivX registration code

Registering the DivX code

The DivX registration code allows you to rent or purchase the latest movies at www.divx.com/vod. To play a rented or purchased DivX file, the file's registration code should be same as your TV's DivX registration code.

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- 3 Press the **Blue** button.
- 4 Press the Navigation buttons to scroll to **DivX VOD Registration** and press **ENTER**.
- 5 View the registration code of your TV.



- 6 When you are finished, press **ENTER**.

NOTE

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

Deactivating the DivX feature

You can deactivate all of the devices through the web server and block devices from activating. Delete the existing authentication information to receive a new DivX user authentication for the TV. Once this function is executed, a DivX user authentication is required again to see DivX DRM files.

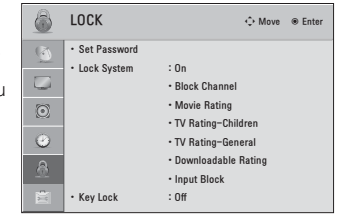
- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- 3 Press the **Blue** button.
- 4 Press the Navigation buttons to scroll to **DivX Deregistration** and press **ENTER**.
- 5 Select **Yes** to confirm.



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

LOCK Settings

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

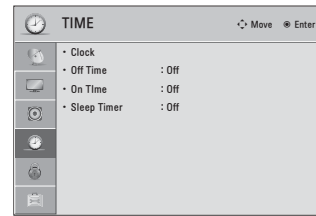


The available lock settings are described in the following.

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". If you forget your password, press "0-3-2-5" on the remote control.																
Block Channel	Blocks the channels that contain inappropriate contents for children by pressing the Yellow button. The Lock icon appears in front of the blocked channels. The channels can be selected but the screen blank and the audio is muted. To watch a locked channel, enter the password.																
Movie Rating	Blocks the movies that are only broadcasted on the TV and contain inappropriate contents, based on the Motion Picture Association of America (MPAA) rating. <table border="1"> <thead> <tr> <th colspan="2">Rating</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>General audiences – All ages admitted</td> </tr> <tr> <td>PG</td> <td>Parental guidance suggested – Some material may not be suitable for children</td> </tr> <tr> <td>PG-13</td> <td>Parents strongly cautioned – Some material may be inappropriate for children under 13</td> </tr> <tr> <td>R</td> <td>Restricted – Under 17 requires accompanying parent or adult guardian</td> </tr> <tr> <td>NC-17</td> <td>No one 17 and under admitted</td> </tr> <tr> <td>X</td> <td>Adults only</td> </tr> <tr> <td>Blocking Off</td> <td>Permits all programs</td> </tr> </tbody> </table>	Rating		G	General audiences – All ages admitted	PG	Parental guidance suggested – Some material may not be suitable for children	PG-13	Parents strongly cautioned – Some material may be inappropriate for children under 13	R	Restricted – Under 17 requires accompanying parent or adult guardian	NC-17	No one 17 and under admitted	X	Adults only	Blocking Off	Permits all programs
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X	Adults only																
Blocking Off	Permits all programs																
TV Rating-Children (Depending on model)	Blocks the children's TV programs that parents do not want their children to watch. To block other TV programs, you should set the TV Rating-General feature. <table border="1"> <thead> <tr> <th colspan="2">Rating</th> </tr> </thead> <tbody> <tr> <td>Age</td> <td>TV-Y (All children, including children from ages 2-6) TV-Y7 (Directed to older children, suitable for children age 6 and above)</td> </tr> <tr> <td>Fantasy Violence</td> <td>TY-Y7 (Directed to older children – Fantasy violence, suitable for children age 6 and above, containing more intense or combative fantasy violence)</td> </tr> </tbody> </table>	Rating		Age	TV-Y (All children, including children from ages 2-6) TV-Y7 (Directed to older children, suitable for children age 6 and above)	Fantasy Violence	TY-Y7 (Directed to older children – Fantasy violence, suitable for children age 6 and above, containing more intense or combative fantasy violence)										
Rating																	
Age	TV-Y (All children, including children from ages 2-6) TV-Y7 (Directed to older children, suitable for children age 6 and above)																
Fantasy Violence	TY-Y7 (Directed to older children – Fantasy violence, suitable for children age 6 and above, containing more intense or combative fantasy violence)																

TIME Settings

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



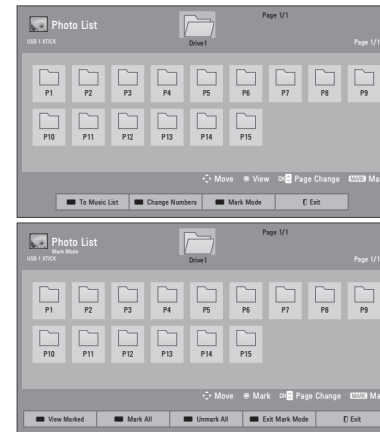
The available time settings are described in the following

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.
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. <div style="border: 1px solid black; padding: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • If you do not press any button within 2 hours after the TV turns on by the On Time feature, the TV enters the Standby mode automatically. • If you set both Off time and On time features to the same time, the Off time feature overrides the On time feature. </div>
Sleep Timer	Sets the length of time until the TV to turn off. When you turn the TV off and turn it on again, the Sleep timer feature will be set to off.

Viewing Photos

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

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to **Photo List** and press **ENTER**.
- 4 Select **Drive1** to access the connected USB storage device.
- 5 Press the Navigation buttons to scroll to a folder/file you want and press **ENTER**.
- 6 View photos by using the following menus/buttons.

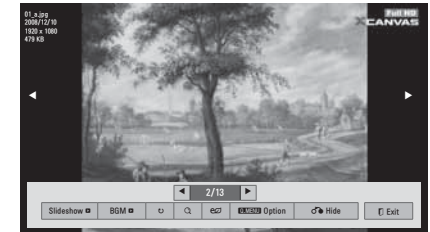


Button	Description
Navigation button	Scrolls the file.
ENTER	Views the highlighted file or enters the mark mode.
CH (▲, ▼)	Moves to the previous or next page.
MARK	Enters the mark mode.
Menu	Description
View Marked	Views the selected photo.
Mark All	Selects all files
Unmark All	Clears all of your selections.
Mark Mode	Exits the Mark Mode.

NOTE

- : Abnormal files are displayed using this graphic.
- : Non-supported files are displayed using this graphic.

- 7 The following options are available while viewing photos.



Option	Description
Slideshow	<ul style="list-style-type: none"> • 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 (Background Music)	<ul style="list-style-type: none"> • Turns the background music on or off. To set the background music folder, select Option. <div style="border: 1px solid black; padding: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • You can't change or set-up the BGM while viewing the *.mpo files (3D camera file). </div>
⤵ (Rotate)	<p>Rotates photos clockwise (90°, 180°, 270°, 360°).</p> <div style="border: 1px solid black; padding: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • 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. </div>
🔍 (Zoom In)	Views the photo by zoom in 2, 4 times by using Blue button.
⚡ (ENERGY SAVING)	Increases or decreases the brightness of your screen.
Option	Shows the Option menu (See p.56).
Hide	Hides the option window. To display the options, press ENTER .
Exit	Moves to the previous menu screen.

NOTE

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

Q.MENU options for photo list

- 1 Press **MENU**.
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to photo list option and press **ENTER**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **ENTER**.

Set Photo View.

Option	Description
Slide Speed	Selects a slideshow speed (Fast, Medium, Slow).
BGM	Selects a music folder for the background music. <ul style="list-style-type: none"> • Repeat • Random <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • You cannot change the music folder while the background music is playing. </div>

Set Video.

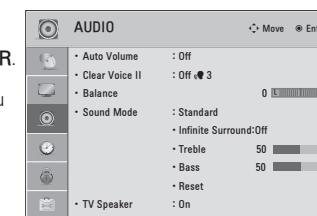
Allows you to change Video presets. (Refer to "PICTURE Settings" on p.61).

Set Audio.

Allows you to change Video presets. (Refer to "AUDIO Settings" on p.65).







AUDIO Settings

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



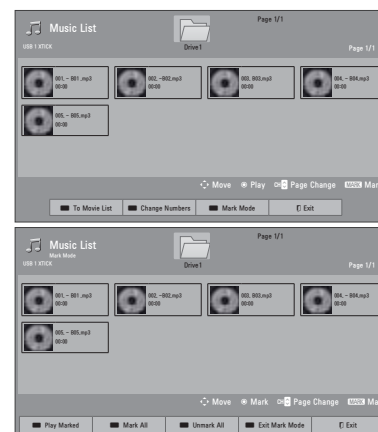
The available audio settings are described in the following.

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. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • If the Clear voice II feature is on, Infinite Surround will not be activated. </div>																						
Balance	Adjusts 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. <table border="1" style="width: 100%; margin-top: 5px;"> <thead> <tr> <th colspan="2">Mode</th> </tr> </thead> <tbody> <tr> <td>Standard</td> <td>Select when you want standard-quality sound.</td> </tr> <tr> <td>Music</td> <td>Select when you listen to music.</td> </tr> <tr> <td>Cinema</td> <td>Select when you watch movies.</td> </tr> <tr> <td>Sport</td> <td>Select when you watch sports events.</td> </tr> <tr> <td>Game</td> <td>Select when you play games.</td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE</p> <ul style="list-style-type: none"> • If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amplifier to cope with different user environments. • If the Clear Voice II feature is on, Infinite Surround will not be activated. </div> <table border="1" style="width: 100%; margin-top: 5px;"> <thead> <tr> <th colspan="2">Option</th> </tr> </thead> <tbody> <tr> <td>Infinite Surround</td> <td>Infinite Surround is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound with just two front speakers.</td> </tr> <tr> <td>Treble</td> <td>Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.</td> </tr> <tr> <td>Bass</td> <td>Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.</td> </tr> <tr> <td>Reset</td> <td>Resets the sound mode to the default setting.</td> </tr> </tbody> </table>	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 with just two front speakers.	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.	Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.	Reset	Resets the sound mode to the default setting.
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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.																						
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.																						

Setting	Description				
Color Gamut	<p>Advanced Control Maximizes the utilization of color to increase color quality.</p> <ul style="list-style-type: none"> » Standard: Displays standard set of colors. » Wide: Increase number of colors used. <p>Expert Control Displays color domain of the signal.</p> <ul style="list-style-type: none"> » Standard: Displays standard set of colors. » Wide: Increase number of colors used. » EBU: Mode to display EBU standard color area. (LCD) » SMPTE: Mode to display SMPTE standard color area. (LCD) » BT709: Mode to display BT709 standard color area. (LCD) 				
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video.				
xvYCC	This produces richer colors. This feature represents rich colors as much as a conventional video signal. This function is enabled in "Picture mode - Cinema, Expert" when xvYCC signal is inputted through HDMI.				
Color Filter	This is the function to filter the specific colors of the video. You can use the RGB filter to set color saturation and hue accurately.				
Expert Pattern	This is the pattern used for expert adjustment. This function is enabled in "Picture Mode - Expert" when you watch DTV.				
Color Temperature	Adjusts the overall color of the screen by changing the white baseline.				
	<table border="0"> <tr> <td style="vertical-align: top;"> <p></p> <p>a. Gamma : Select Low, Medium, High</p> <p>b. Method : 2 Points</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness <p>d. Apply to all inputs</p> </td> <td style="vertical-align: top;"> <p>c. Method : 20 Point IRE</p> <ul style="list-style-type: none"> • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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. </td> </tr> <tr> <td style="vertical-align: top;"> <p></p> </td> <td style="vertical-align: top;"> <p>c. Method : 10 Point IRE</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. • Red/Green/Blue: The adjustment range is -50 - +50. </td> </tr> </table>	<p></p> <p>a. Gamma : Select Low, Medium, High</p> <p>b. Method : 2 Points</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness <p>d. Apply to all inputs</p>	<p>c. Method : 20 Point IRE</p> <ul style="list-style-type: none"> • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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. 	<p></p>	<p>c. Method : 10 Point IRE</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. • Red/Green/Blue: The adjustment range is -50 - +50.
<p></p> <p>a. Gamma : Select Low, Medium, High</p> <p>b. Method : 2 Points</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness <p>d. Apply to all inputs</p>	<p>c. Method : 20 Point IRE</p> <ul style="list-style-type: none"> • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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. 				
<p></p>	<p>c. Method : 10 Point IRE</p> <ul style="list-style-type: none"> • Pattern: Inner, Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 0, 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, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. • Red/Green/Blue: The adjustment range is -50 - +50. 				
Color Management System	As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Magenta/Yellow). Color 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 Color: 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.				



Listening to music

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to **Music List** and press **ENTER**.
- 4 Select **Drive1** to access the connected USB storage device.
- 5 Press the Navigation buttons to scroll to a folder/file you want and press **ENTER**.
- 6 Play music by using the following menus/ buttons.









Button	Description
Navigation button	Scrolls through the files.
ENTER	Plays the highlighted file or enters the mark mode.
CH (⏪, ⏩)	Moves to the previous or next page.
MARK	Enters the mark mode.
Menu	Description
Play Marked	Plays the selected music file.
Mark All	Selects all files.
Unmark All	Clears all of your selections.
Mark Mode	Exits the Mark Mode.

NOTE

- : Abnormal files are displayed using this graphic.
- : Non-supported files are displayed using this graphic.

- 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.
Play with Photo	Displays photos during playback.
 (ENERGY SAVING)	Increases or decreases the brightness of your screen.
Option	Shows the Option menu (See p.58).
Hide	Hides the option window. To display the options, press ENTER .
Exit	Moves to the previous menu screen.

Q.MENU options for music list

- 1 Press **MENU**.
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to music list option and press **ENTER**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **ENTER**.

NOTE

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

Set Audio Play.

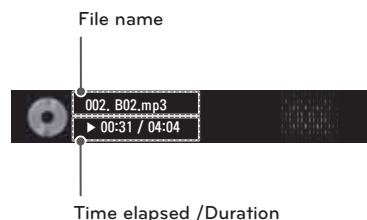
Select Repeat or Random option.

Set Audio.

Allows you to change Video presets. (Refer to "AUDIO Settings" on p.65).

NOTE

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






Basic Image Options

Setting	Description
Backlight (LCD)	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss. NOTE • If you use the "Energy saving - Off, Minimum, Medium", Backlight will be available.
Contrast	Increases or decreases the amplitude 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. You may use Brightness when the dark part of the picture is saturated.
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.
Color	Adjusts intensity of all colors.
Tint	Adjusts the balance between red and green levels.
Color Temp.	Sets to warm to enhance hotter colors such as red, or set to cool to enhance cooler colors such as blue.
Advanced Control	Customizes the advanced options.
Picture Reset	Restores the options of each mode to the factory default.

Advanced Image Options (Depending on model)

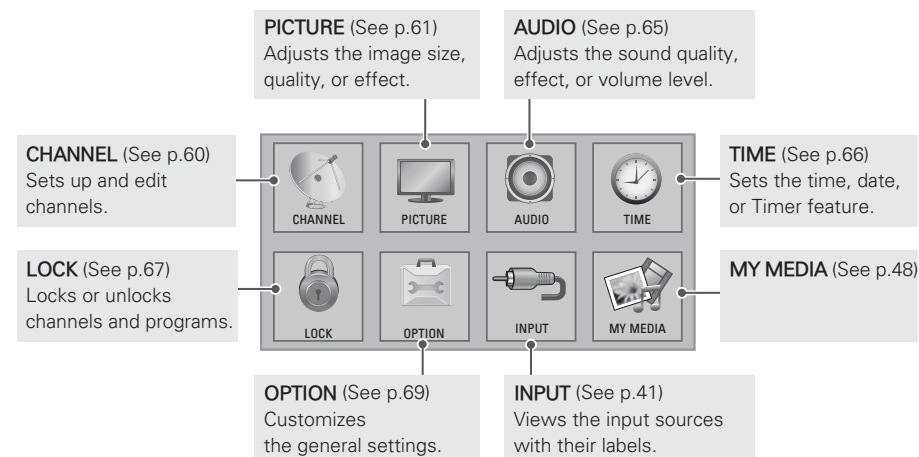
Setting	Description
Dynamic Contrast	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
Skin Color	It detects the skin area of video and adjusts it to express a natural skin color.
Noise Reduction	Reduces screen noise without compromising video quality.
Digital Noise Reduction	Removes noise caused by compressing video.
Gamma	You can adjust brightness of dark area and middle gray level area of the picture. » Low: Make the dark and middle gray level areas brighter. » Medium: Express the original picture level. » High: Make the dark and middle gray level area darker.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: AV (NTSC-M), HDMI, Component or USB. » Low: The reflection of the screen gets darker. » High: The reflection of the screen gets brighter.
Clear White	Makes the white area of screen brighter and more white.
Eye Care	Adjusts the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is disabled in "Picture Mode - Standard, Sport, Game".
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 Real Cinema, 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. This function can also work when TruMotion is off.

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 ()	Sets the TV to adjust the image settings, such as contrast, brightness, sharpness, color, or tint, automatically corresponding to the surrounding environments.			
	Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, color, and sharpness.			
	Standard	Adjusts the image for the normal environment.			
	APS ()	Maximizes video image reducing power consumption without hurting picture quality.			
	Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.			
	Sport	Optimizes video images for high and dynamic actions by emphasizing primary colors such as white, grass, or sky blue.			
	Game	Optimizes the video image for a fast gaming screen such as PCs or games.			
	Expert	Adjusts the detailed video image settings for video experts as well as general viewers.			
<p>NOTE</p> <ul style="list-style-type: none"> If you select Intelligent Sensor, the option of the Energy saving feature will switch to Auto automatically (). 					
TruMotion (Depending on model)	Advance video technology that provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture. TruMotion works with all inputs except PC mode. 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	Provides smoother picture movement.			
	Low	Provides smooth picture movement. Use this setting for standard use.			
	Off	Turn off TruMotion operation.			
	User	<table border="1"> <tr> <td>De-Judder</td> <td>Adjusts noise of the screen.</td> </tr> <tr> <td>De-Blur</td> <td>Adjusts after-image of the screen.</td> </tr> </table>	De-Judder	Adjusts noise of the screen.	De-Blur
De-Judder	Adjusts noise of the screen.				
De-Blur	Adjusts after-image of the screen.				
SCREEN (RGB-PC)	Customizes the PC display options.				
	Option				
	Resolution	Selects a proper resolution when your PC uses 1024 X 768, 1280 X 768, or 1360 X 768 resolution.			
	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.			

CUSTOMIZING TV SETTINGS

The Main Menu

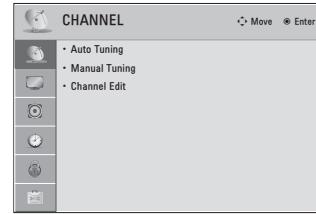
- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **ENTER**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **ENTER**.
- 4 When you are finished, press **EXIT**.



Customizing Settings

CHANNEL Settings

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

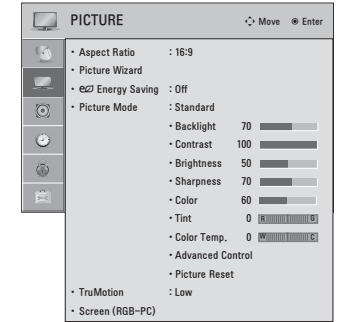


The available channel settings are described in the following.

Setting	Description
Auto Tuning	Tunes and stores all available channels through antennas or cable inputs (See p.36).
Manual Tuning	Tunes and stores the channels you want manually (See p.36).
Channel Edit	Adds or deletes channels on the channel (See p.37).

PICTURE Settings

- 1 Press **Home** to access the main menus.
- 2 Press the Navigation buttons to scroll to **CHANNEL** and press **ENTER**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **ENTER**.
- To return to the previous level, press **BACK**.
- 4 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.40).												
Picture Wizard	Adjusts the image quality and calibrates the screen. The customized options will be saved as Expert1 in the Picture Mode . NOTE <ul style="list-style-type: none"> • 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. 												
Energy Saving	Reduces the power consumption by adjusting the screen brightness. NOTE <ul style="list-style-type: none"> • When selecting Auto or Maximum, Backlight will not work. <table border="1"> <thead> <tr> <th>Option</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Auto ()</td> <td>The backlight is adjusted automatically corresponding to the surroundings when selecting Auto using the Intelligent sensor feature.</td> </tr> <tr> <td>Intelligent sensor ()</td> <td>The most suitable picture is automatically adjusted according to the surrounding conditions.</td> </tr> <tr> <td>Off</td> <td>Energy Saving is not used.</td> </tr> <tr> <td>Minimum/ Medium/Maximum</td> <td>Selects the brightness level.</td> </tr> <tr> <td>Screen off</td> <td>The screen turns off in 3 seconds.</td> </tr> </tbody> </table>	Option	Description	Auto ()	The backlight is adjusted automatically corresponding to the surroundings when selecting Auto using the Intelligent sensor feature.	Intelligent sensor ()	The most suitable picture is automatically adjusted according to the surrounding conditions.	Off	Energy Saving is not used.	Minimum/ Medium/Maximum	Selects the brightness level.	Screen off	The screen turns off in 3 seconds.
Option	Description												
Auto ()	The backlight is adjusted automatically corresponding to the surroundings when selecting Auto using the Intelligent sensor feature.												
Intelligent sensor ()	The most suitable picture is automatically adjusted according to the surrounding conditions.												
Off	Energy Saving is not used.												
Minimum/ Medium/Maximum	Selects the brightness level.												
Screen off	The screen turns off in 3 seconds.												

■ ■ ■ Regulatory Information cont.

:: FCC Compliance Statement

This equipment has been tested and found to comply within the limits of a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment on and off), the user is encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's (or your) authority to operate the equipment. Only peripherals (digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. Only shielded signal cables may be used with this System.

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

:: Canadian DOC Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B

respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

:: CE Conformity Notice (for Europe)

Products with the "CE" Marking comply with the EMC Directive(89/336/EEC) and LOW VOLTAGE Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms :

- EN 55022 ; Radio Frequency Interference
- EN 55024 ; Electromagnetic Immunity
- EN 61000-3-2 ; Power Line Harmonics
- EN 61000-3-3 ; Voltage Fluctuations
- EN 60950-1 ; Product Safety

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

:: Low Radiation Compliance (MPR II)

This monitor meets one of the strictest guidelines available today for low radiation emissions, offering the user extra shielding and an antistatic screen coating. These guidelines, set forth by a government agency in Sweden, limit the amount of emission allowed in the Extremely Low Frequency (ELF) and Very Low Frequency (VLF) electromagnetic range.

:: TCO'99 (TCO'99 applied model only)



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

■ ■ ■ Regulatory Information cont.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. With the growing manufacture and usage of electronic equipment throughout the world, there is a recognized concern for the materials and substances used by electronic products with regards to their eventual recycling and disposal. By proper selection of these materials and substances, the impact on the environment can be minimized.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Electronic equipment in offices is often left running continuously, resulting in unnecessary consumption of large amounts of energy and additional power generation. From the standpoint of carbon dioxide emissions alone, it is vital to save energy.

What does labelling involve?

The product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers and/or displays.

The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: ecology, ergonomics, emission of electrical and magnetical fields, energy consumption and electrical safety.

Ecological criteria impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, and other substances. The product must be prepared for recycling and the manufacturing site(s) shall be certified according to ISO14001 or EMAS registered.

Energy requirements include a demand that the system unit and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the system unit shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electrical and magnetical fields as well as work load and

visual ergonomics.

Below you will find a brief summary of the ecological requirements met by this product. The complete ecological criteria document can be found at TCO Development's website <http://www.tcodevelopment.com> or may be ordered from:

TCO Development
SE-114 94 STOCKHOLM, Sweden
Fax: +46 8 782 92 07
Email : development@tco.se
Information regarding TCO'99 approved and labelled products may also be obtained at <http://www.tcodevelopment.com>

Ecological requirements

Flame retardants

Flame retardants may be present in printed wiring board laminates, cables, and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% by weight of the plastic in a computer casing can consist of flame retardant substances. Many flame retardants contain bromine or chlorine, and these flame retardants are chemically related to PCBs (polychlorinated biphenyls). Both the flame retardants containing bromine or chlorine and the PCBs are suspected of giving rise to health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes when not disposed of in accordance with strict standards for disposal.

TCO'99 requires that plastic components weighing more than 25 grams shall not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed wiring board laminates due to the lack of commercially available alternatives.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. TCO'99 requires that batteries, the colour-generating layers of display screens, and the electrical or electronics components shall not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. TCO'99 requires that batteries shall not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one

Regulatory Information cont.

exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. TCO'99 permits the use of lead due to the lack of commercially available alternatives, but in future requirements TCO Development aims at restricting the use of lead.

* Bio-accumulative is defined as substances which accumulate in living organisms.
**Lead, Cadmium and Mercury are heavy metals which are bio-accumulative.

TCO'03 (TCO'03 applied model only)



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment. Some of the features of the TCO'03 Display requirements:

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields

- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
 - chlorinated and brominated flame retardants and polymers
 - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit www.tcodevelopment.com

English

Information for Environmental Preservation

LGE. announced the 'LG Declaration for a Cleaner Environment' in 1994, and this ideal has served as a guiding managerial principle ever since. The Declaration is a foundation that has allowed us to undertake environmentally friendly activities in careful consideration of economic, environmental, and social aspects.

We promote activities for environmental preservation, and we specifically develop our products to embrace the concept of environment-friendly.

We minimize the hazardous materials contained in our products. For example, there is no cadmium to be found in our monitors.

Information for recycling

This monitor may contain parts which could be hazardous to the environment. It is important that this monitor be recycled after use.

LGE. handles all waste monitors through an environmentally acceptable recycling method. There are several take-back and recycling systems currently in

Regulatory Information cont.

operation worldwide. Many parts will be reused and recycled, while harmful substances and heavy metals are treated by an environmentally friendly method. If you want to find out more information about our recycling program, please contact your local LG vendor or a corporate representative of LG.

We set our vision and policies on a cleaner world by selecting the issue of the global environment as a task for corporate improvement. Please visit our website for more information about our 'green' policies. <http://www.lge.com/about/environment/html/Recycling.jsp>

Deutsch

Informationen zur Erhaltung der Umwelt

Im Jahr 1994 verkündete LGE die 'LG Declaration for a Cleaner Environment' (LG Erklärung für eine sauberere Umwelt). Seitdem dient dieses Ideal als führendes Prinzip des Unternehmens. Diese Erklärung war die Basis für die Durchführung von umweltfreundlichen Aktivitäten, wobei wirtschaftliche, umweltbezogene und soziale Aspekte in die Überlegungen mit einbezogen wurden.

Wir fördern Aktivitäten zum Schutz der Umwelt und die Entwicklung unserer Produkte ist darauf ausgerichtet, unserem Konzept bezüglich Umweltfreundlichkeit gerecht zu werden.

Wir sind darauf bedacht, den Anteil der in unseren Produkten enthaltenen schädlichen Materialien zu minimieren. So ist in unseren Monitoren beispielsweise kein Kadmium zu finden.

Informationen zum Thema Recycling

Dieser Monitor enthält Teile, die umweltschädlich sein können. Es ist unbedingt erforderlich, dass der Monitor recycelt wird, nachdem er außer Dienst gestellt wurde.

Bei LGE. werden alle ausrangierten Monitore in einem unter umweltbezogenen Aspekten geeigneten Verfahren recycelt. Augenblicklich sind weltweit mehrere Rücknahme- und Recyclingsysteme im Einsatz. Viele Teile werden wieder verwendet und recycelt. Schädliche Substanzen und Schwermetalle werden durch umweltverträgliche Verfahren behandelt.

Falls Sie mehr über unser Recyclingprogramm erfahren möchten, wenden Sie sich bitte an Ihren lokalen LG-Händler oder einen Unternehmensvertreter von LG.

Wir richten unsere Firmenpolitik auf eine sauberere Umwelt hin aus, indem wir umweltspezifische Aspekte als wichtigen Punkt in die Weiterentwicklung unseres Unternehmens einfließen lassen. Zusätzliche Informationen über unsere 'grüne' Firmenpolitik erhalten Sie auf unserer Website. <http://www.lge.com/about/environment/html/Recycling.jsp>

Français

Information sur la protection de l'environnement

LGE. a publié sa 'Déclaration en faveur d'un environnement plus propre' en 1994 et celle-ci est restée, depuis lors, un principe directeur de notre entreprise. Cette déclaration a servi de base à notre réflexion et nous a permis de prendre en compte à la fois les aspects économiques et sociaux de nos activités, tout en respectant l'environnement.

Nous encourageons les activités en faveur de la préservation de l'environnement et c'est dans cet esprit que nous développons nos produits : nous réduisons au minimum les matières dangereuses qui entrent dans leur composition et l'on ne trouve pas de cadmium, par exemple, dans nos moniteurs.

Information sur le recyclage

Ce moniteur peut contenir des composants qui présentent un risque pour l'environnement. Il est donc important que celui-ci soit recyclé après usage.

LGE. traite les moniteurs en fin de cycle conformément à une méthode de recyclage respectueuse de l'environnement. Nous reprenons nos produits et les recyclons dans plusieurs sites répartis dans le monde entier. De nombreux composants sont réutilisés et recyclés, et les matières dangereuses, ainsi que les métaux lourds, sont traités selon un procédé écologique.

Si vous souhaitez plus de renseignements sur notre programme de recyclage, veuillez contacter votre revendeur LG ou un l'un de nos représentants.

Nous voulons agir pour un monde plus propre et croyons au rôle de notre entreprise dans l'amélioration de l'environnement. Pour plus de renseignements sur notre politique 'verte', rendez visite à notre site : <http://www.lge.com/about/environment/html/Recycling.jsp>

Regulatory Information cont.

Italiano

Informazioni per la tutela dell'ambiente

La LGE, ha annunciato nel 1994 la cosiddetta 'LG Declaration for a Cleaner Environment' (Dichiarazione di LG a favore di un ambiente più pulito), un ideale che da allora funge da principio ispiratore della gestione aziendale. La dichiarazione rappresenta il fondamento che consente di intraprendere attività a favore dell'ambiente tenendo conto degli aspetti economici, ambientali e sociali. Noi della LG, promuoviamo attività a favore della tutela dell'ambiente sviluppando appositamente i nostri prodotti per cogliere il concetto del rispetto dell'ambiente riducendo i materiali dannosi presenti nei nostri prodotti. Ad esempio nei nostri monitor non è presente il cadmio.

Informazioni per il riciclaggio

Il monitor può presentare componenti che potrebbero risultare eventualmente dannosi per l'ambiente. È importante che il monitor sia riciclato al termine del suo utilizzo.

La LGE, gestisce tutti i monitor di rifiuto con un metodo di riciclaggio soddisfacente dal punto di vista ambientale. In tutto il mondo sono attualmente in funzione numerosi sistemi di riciclaggio e recupero. I diversi componenti sono riutilizzati e riciclati, mentre le sostanze dannose e i metalli pesanti vengono trattati con un metodo rispettoso dell'ambiente.

Se si desiderano maggiori informazioni in merito al programma di riciclaggio, è consigliabile rivolgersi al proprio rivenditore LG o ad un rappresentante aziendale della LG.

Noi della LG impostiamo la nostra visione e le nostre politiche a favore di un mondo più pulito ponendo la questione dell'ambiente dal punto di vista globale come una mansione rivolta al miglioramento della nostra azienda. Vi invitiamo a visitare il nostro sito internet per ulteriori informazioni sulla nostra politica "verde". <http://www.lge.com/about/environment/html/Recycling.jsp>

Espanol

Información para la conservación medioambiental

LGE, presentó la 'Declaración para un entorno más limpio de LG' en 1994 y este ideal ha servido para guiar nuestros principios empresariales desde entonces. La Declaración es la base que nos ha permitido llevar a cabo tareas que

respetan el medio ambiente siempre teniendo en cuenta aspectos sociales, económicos y medioambientales.

Promocionamos actividades orientadas a la conservación del medio ambiente y desarrollamos nuestros productos específicamente para que se ajusten a la filosofía que protege el entorno.

Reducimos al máximo el uso de materiales de riesgo en nuestros productos. Un ejemplo de ello es la ausencia total de cadmio en nuestros monitores.

Información para el reciclaje

Este monitor puede contener piezas que entrañen riesgos medioambientales. Es importante reciclar este monitor después de su utilización.

LGE, trata todos los monitores usados siguiendo un método de reciclaje que no daña al entorno. Contamos con diversos sistemas de recuperación y reciclaje que funcionan a nivel mundial en la actualidad. Es posible reciclar y reutilizar muchas de las piezas, mientras que las sustancias dañinas y los metales pesados se tratan siguiendo un método que no perjudique al medio ambiente. Si desea obtener más información acerca del programa de reciclaje, póngase en contacto con su proveedor local de LG o con un representante empresarial de nuestra marca.

Basamos nuestra visión y nuestras políticas en un mundo más limpio y para ellos optamos por un entorno global como tarea principal de nuestra evolución como empresa. Visite nuestra página Web para obtener más información sobre nuestras políticas ecológicas. <http://www.lge.com/about/environment/html/Recycling.jsp>

Português

Informações relacionadas à preservação ambiental

A LGE, anunciou a 'LG Declaration for a Cleaner Environment' (Declaração da LG para um ambiente mais limpo) em 1994 e esse ideal tem servido desde então como um princípio administrativo de orientação. A Declaração é a base que nos tem permitido realizar atividades favoráveis ao ambiente com consideração atenta aos aspectos econômicos, ambientais e sociais.

Promovemos atividades de preservação ambiental e desenvolvemos nossos produtos para englobar

Regulatory Information cont.

especificamente o conceito de favorável ao ambiente.

Reduzimos os materiais perigosos contidos em nossos produtos. Por exemplo, não há cádmio em nossos monitores.

Informações relacionadas à reciclagem

Este monitor pode conter peças que podem representar riscos ao ambiente. É importante que ele seja reciclado após o uso.

A LGE, cuida de todos os monitores descartados através de um método de reciclagem agradável ao ambiente. Há vários sistemas de devolução e reciclagem atualmente em operação no mundo. Muitas peças serão reutilizadas e recicladas e as substâncias nocivas e os metais pesados passarão por tratamento através de um método favorável ao ambiente.

Para obter mais informações sobre nosso programa de reciclagem, entre em contato com seu fornecedor LG local ou com um representante corporativo da LG.

Definimos nossa visão e nossas políticas relacionadas a um mundo mais limpo selecionando a questão do ambiente global como uma tarefa de aprimoramento corporativo. Visite nosso site para obter mais informações sobre nossas políticas de meio ambiente. <http://www.lge.com/about/environment/html/Recycling.jsp>

Nederlands

Informatie met betrekking tot het behoud van het milieu

LGE, publiceerde in 1994 de 'LG Declaration for a Cleaner Environment' (de LG-verklaring met betrekking tot een schoner milieu). Deze verklaring en het ideaal van een schoner milieu fungeren sindsdien als een bestuurlijke leidraad voor onze onderneming. Op basis van deze verklaring optonoemen wij milieuvriendelijke activiteiten, waarbij er zowel met sociale en economische aspecten, als met milieuaspecten zorgvuldig rekening wordt gehouden.

Wij ondersteunen activiteiten die zijn gericht op het behoud van het milieu en wij houden bij het ontwikkelen onze producten specifiek rekening met de milieuvriendelijkheid van onze producten.

Wij minimaliseren het gebruik van schadelijke stoffen in onze producten. Er wordt bijvoorbeeld geen cadmium verwerkt in onze monitoren.

Informatie met betrekking tot recycling

Deze monitor bevat materialen die schadelijk zouden kunnen zijn voor het milieu. Het is belangrijk dat deze monitor aan het einde van zijn levensduur wordt gerecycled.

LGE, verwerkt alle afvalmonitors via een milieuvriendelijke recyclingmethode. Hiervoor worden er momenteel wereldwijd verscheidene inname- en recyclingsystemen gehanteerd. Een groot aantal onderdelen wordt opnieuw gebruikt en gerecycled, waarbij schadelijke stoffen en zware metalen volgens een milieuvriendelijke methode worden verwerkt.

Voor meer informatie over ons recyclingprogramma kunt u contact opnemen met uw plaatselijke LG-vertegenwoordiger of een LG-vestiging.

Onze visie en ons beleid met betrekking tot een schonere wereld vloeien voort uit het feit dat wij het milieu hebben aangemerkt als een onderwerp dat speciale aandacht verdient binnen onze onderneming. Bezoek onze website voor meer informatie over ons 'groene' beleid. <http://www.lge.com/about/environment/html/Recycling.jsp>

Russian

Информация по охране окружающей среды

В 1994 году корпорация LGE опубликовала 'Декларацию LG по охране окружающей среды', которая с тех пор служит основным принципом управления. На основе этой декларации мы смогли предпринять действия, обеспечивающие безопасность окружающей среды, уделяя при этом должное внимание экономическим, экологическим и социальным аспектам.

Мы стимулируем деятельность по охране окружающей среды, уделяя особое внимание разработке нашей продукции в соответствии с концепцией экологической безопасности.

Мы стремимся к минимуму содержание опасных веществ в нашей продукции. Например, в наших мониторах вы не найдете кадмия.

Информация по утилизации отходов

Этот монитор может содержать компоненты, которые могут нанести ущерб окружающей среде.

Regulatory Information cont.

Необходимо утилизировать монитор после использования.

Корпорация LGE перерабатывает все бракованные мониторы с помощью экологически приемлемого метода утилизации отходов. По всему миру действуют системы утилизации отходов и возврата использованной продукции. Многие компоненты будут вторично использованы и утилизированы, в то время как вредные вещества и тяжелые металлы будут обработаны с помощью экологически приемлемого метода.

За более подробной информацией по нашей программе утилизации отходов обращайтесь к местному поставщику или представителю

корпорации LG.

Мы ориентируемся на обеспечение экологической безопасности, ставя себе целью глобальную защиту окружающей среды. Дополнительную информацию о нашей политике по охране окружающей среды вы можете найти на нашем сайте: <http://www.lge.com/about/environment/html/Recycling.jsp>

한국어

환경 보존 정보

LG 전자는 1994년 LG 환경 선언문을 발표한 후 현재까지 이를 기업 경영의 이념으로 삼아왔습니다. 이 선언문을 바탕으로 LG 전자는 모든 경영 활동에서 경제성뿐만 아니라 환경성 및 사회성을 주요 의사 결정의 기준으로 삼음으로써 지속적으로 환경 친화적인 경영을 전개하고 있습니다.

본사는 보다 활발한 환경 보존 활동과 더불어 환경 친화적 제품 개발에 주력해 왔습니다. 또한 제품에 포함되는 환경 위해 요소를 최소화하는 데에도 노력을 기울이지 않고 있습니다. LG 전자 모니터의 경우 카드를 전혀 사용하지 않는 것에서도 이러한 노력을 알 수 있습니다.

재활용 정보

본 모니터에는 환경에 위해를 주는 부품이 포함되어 있을 수도 있습니다. 따라서 사용이 끝난 모니터는 재활용하는 것이 좋습니다.

패모니터는 모두 환경 친화적 방식으로 처리됩니다. 현재 세계적으로 운영되고 있는 회수 및 재활용 시스템에는

여러 가지가 있습니다. 대부분의 부품의 경우 재사용 또는 재활용되지만 환경 위해 물질과 중금속은 환경 친화적 방법으로 처리됩니다. 본사의 재활용 프로그램에 대한 자세한 정보는 각 지역의 LG 공급업체나 LG 기업 대표부에 문의하시기 바랍니다.

LG 전자는 기업 개선 정책의 하나로 지구 환경 문제를 채택함으로써 보다 나은 환경을 만들어 나가기 위한 비전과 정책을 수립했습니다. 본사의 친환경 정책에 대한 자세한 정보를 보시려면 아래의 웹 사이트를 방문하십시오.

http://www.lge.co.kr/cckr/about/enviro/pur/ty_02.jsp

EPA (EPA applied model only)

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

NOM MARK (Mexico only)



Regulatory Information cont.

WEEE (for Europe)



English

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

French

Élimination de votre ancien appareil

1. Ce symbole, représentant une poubelle sur roulettes barrée d'une croix, signifie que le produit est couvert par la directive européenne 2002/96/EC.
2. Les éléments électriques et électroniques doivent être jetés séparément, dans les vidè-orures prévus à cet effet par votre municipalité.
3. Une élimination conforme aux instructions aidera à réduire les conséquences négatives et risques éventuels pour l'environnement et la santé humaine.
4. Pour plus d'information concernant l'élimination de votre ancien appareil, veuillez contacter votre mairie, le service des ordures ménagères ou encore la magasin où vous avez acheté ce produit.

Italian

Smaltimento delle apparecchiature obsolete

1. Quando su un prodotto è riportato il simbolo di

un bidone della spazzatura barrato da una croce significa che il prodotto è coperto dalla direttiva europea 2002/96/EC.

2. Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente rispetto alla raccolta differenziata municipale, mediante impianti di raccolta specifici designati dal governo o dalle autorità locali.
3. Il corretto smaltimento delle apparecchiature obsolete contribuisce a prevenire possibili conseguenze negative sulla salute umana e sull'ambiente.
4. Per informazioni più dettagliate sullo smaltimento delle apparecchiature obsolete, contattare il comune, il servizio di smaltimento rifiuti o il negozio in cui è stato acquistato il prodotto.

Swedish

Kassering av din gamla apparat

1. När den här symbolen med en överkryssad soptunna på hjul sitter på en produkt innebär det att den regleras av European Directive 2002/96/EC.
2. Alla elektriska och elektroniska produkter bör kasseras via andra vägar än de som finns för hushållsavfall, helst via för ändamålet avsedda uppsamlingsanläggningar som myndigheterna utser.
3. Om du kasserar din gamla apparat på rätt sätt så bidrar du till att förhindra negativa konsekvenser för miljön och människors hälsa.
4. Mer detaljerad information om kassering av din gamla apparat kan fås av kommunen, renhållningsverket eller den butik där du köpte produkten.

Dutch

Uw oude toestel wegdoen

1. Als het symbool met de doorgekruiste verrijdbare afvalbak op een product staat, betekent dit dat het product valt onder de Europese Richtlijn 2002/96/EC.
2. Elektrische en elektronische producten mogen niet worden meegegeven met het huishoudelijk afval, maar moeten worden ingeleverd bij speciale inzamelingspunten die door de lokale of landelijke overheid zijn aangewezen.
3. De correcte verwijdering van uw oude toestel helpt negatieve gevolgen voor het milieu en de menselijke gezondheid voorkomen.

Regulatory Information cont.

4. Wilt u meer informatie over de verwijdering van uw oude toestel? Neem dan contact op met uw gemeente, de afvalophalendienst of de winkel waar u het product hebt gekocht.

Finnish

Vanhoiden laitteiden hävittäminen

1. Tämä merkki tuoteessa tarkoittaa, että tuote kuuluu sähkö- ja elektroniikkajätteen erilliseen EU-direktiivin 2002/96/EY soveltamisalaan.
2. Kaikki elektroniset laitteet ovat ongelmajätettä, joten ne on toimitettava paikalliseen keräyspisteeseen.
3. Vanhan laitteen asianmukainen hävittäminen ehkäisee mahdollisia ympäristöön ja terveyteen kohdistuvia haittavaikutuksia.
4. Lisätietoa vanhan laitteen hävittämisestä saat ottamalla yhteyden paikallisiin viranomaisiin, kierrätyskeskukseen tai myymälään, josta ostit laitteen.

German

Entsorgung von Altgeräten

1. Wenn dieses Symbol eines durchgestrichenen Abfallbehalters auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
2. Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über dafür staatlich vorgesehenen Stellen entsorgt werden.
3. Mit der ordnungsgemäßen Entsorgung des alten Geräts vermeiden Sie Umweltschäden und eine Gefährdung der persönlichen Gesundheit.
4. Weitere Informationen zur Entsorgung des alten Geräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, wo Sie das Produkt erworben haben.

Danish

Sådan smider du dit gamle apparat ud

1. Når der er et tegn med et kryds over en skraldespand, betyder det, at produktet er omfattet af EU-direktiv 2002/96/EC.
2. Alle elektriske og elektroniske produkter skal smides ud et andet sted end gennem den kommunale affaldsordning ved hjælp af specielle indsamlingsfaciliteter, der er organiseret af staten

- eller de lokale myndigheder.
3. Korrekt bortskaftelse af dit gamle apparat er med til at forhindre mulige skadevirkninger på miljøet og menneskelig sundhed.
 4. Mere detaljerede oplysninger om bortskaftelse af dit gamle apparat kan fås ved at kontakte dit lokale kommunekontor, renovationselskab eller den butik, hvor du købte produktet.

Greek

Απόρριψη της παλιάς σας συσκευής

1. Όταν ένα προϊόν διαθέτει το σύμβολο ενός διαγραμμένου κάλαθου απορριμμάτων, τότε το προϊόν καλύπτεται από την Ευρωπαϊκή Οδηγία 2002/96/ΕΟΚ.
2. Η απόρριψη όλων των ηλεκτρικών και ηλεκτρονικών προϊόντων πρέπει να γίνεται χωριστά από τα γενικά οικιακά απορρίμματα μέσω καθορισμένων εγκαταστάσεων συλλογής απορριμμάτων, οι οποίες έχουν δημιουργηθεί είτε από την κυβέρνηση ή από τις τοπικές αρχές.
3. Η σωστή απόρριψη της παλιάς σας συσκευής θα βοηθήσει στην αποτροπή πιθανών αρνητικών συνπειών ως προς το περιβάλλον και την υγεία του ανθρώπου.
4. Για πιο λεπτομερείς πληροφορίες σχετικά με την απόρριψη της παλιάς σας συσκευής, επικοινωνήστε με το αρμόδιο τοπικό γραφείο, υπηρεσία διάθεσης οικιακών απορριμμάτων ή το μαγαζί από το οποίο αγοράσατε το προϊόν.

Spanish

Cómo deshacerse de aparatos eléctricos y electrónicos viejos

1. Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que éste se acoge a la Directiva 2002/96/CE.
2. Todos los aparatos eléctricos o electrónicos se deben desechar de forma distinta del servicio municipal de recogida de basura, a través de puntos de recogida designados por el gobierno o las autoridades locales.
3. La correcta recogida y tratamiento de los dispositivos inservibles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.

Regulatory Information cont.

Portuguese

Eliminação do seu antigo aparelho

1. Quando este símbolo de lata cruzada estiver afixado a um produto, significa que o produto é abrangido pela Directiva Europeia 2002/96/EC.
2. Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente do lixo doméstico através de pontos de recolha designados, facilitados pelo governo ou autoridades locais.
3. A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
4. Para obter informações mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

Slovak

Likvidácia váš ho starého prístroja

1. Keď sa na produkte nachádza tento symbol prečiarknutej smetnej nádoby s košíčkami, znamená to, že daný produkt vyhovuje európskej Smernici č. 2002/96/EC.
2. Všetky elektrické a elektronické produkty by mali byť zlikvidované oddelene od komunálneho odpadu prostredníctvom na to určených zberných zariadení, ktoré boli ustanovené vládou alebo orgánmi miestnej správy.
3. Správnu likvidáciu starých zariadení pomôžete predchádzať potenciálnym negatívnym následkom pre prostredie a ľudské zdravie.
4. Podrobnejšie informácie o likvidácii starých zariadení nájdete na miestnom úrade, v službe na likvidáciu odpadu alebo u predajcu, kde ste tento produkt zakúpili.

Czech

Likvidace starých spotřebičů

1. Pokud je u výrobku uveden symbol pojižděného kontejneru v přeškrtnutém poli, znamená to, že na výrobek se vztahuje směrnice Evropské unie číslo 2002/96/EC.
2. Všechny elektrické a elektronické výrobky by měly být likvidovány odděleně od běžného komunálního odpadu prostřednictvím sběrných zařízení zřízených za tímto účelem vládou nebo místní samosprávou.
3. Správný způsob likvidace starého elektrického spotřebiče pomáhá zamezit možným negativním dopadům na životní prostředí a zdraví.
4. Blíží informace o likvidaci starého spotřebiče získáte u místní samosprávy, ve sběrném zařízení nebo v obchodě, ve kterém jste výrobek zakoupili.

Croatian

Uklanjanje starog aparata

1. Ako se na proizvodu nalazi simbol preškrizane kante za smeće, to znači da je proizvod pokriven europskom direk-

- tivom 2002/96/EC.
2. Električni i elektronski proizvodi ne smiju se odlagati zajedno s komunalnim otpadom, već u posebna odlagališta koja je odredila vlada ili lokalne vlasti.
 3. Pravilno odlaganje starog proizvoda spremit će potencijalne negativne posljedice po okoliš i zdravlje ljudi.
 4. Podrobnije informacije o odlaganju starog proizvoda potražite u gradskom uredu, službi za odlaganje otpada ili u trgovini u kojoj ste kupili proizvod.

Hungarian

Régi eszközök ártalmatlanítása

1. A termékhez csatolt áthúzott, keresek személtároló jel jelöli, hogy a termék a 2002/96/EC EU-direktiva hatálya alá esik.
2. Minden elektromos és elektronikai terméket a lakossági hulladéktól elkülönítve kell begyűjteni, a kormány vagy az önkormányzatok által kijelölt begyűjtő eszközök használatával.
3. Régi eszközöknek megfelelő ártalmatlanítással megelőzhető az esetleges egészségére vagy környezetre ártalmas hatások.
4. Ha több információra van szüksége régi eszközöknek ártalmatlanításával kapcsolatban, tanulmányozza a vonatkozó környezetvédelmi szabályokat, vagy lépjen kapcsolatba az üzlettel, ahol a terméket vásárolta.

Polish

Utilizacja starych urządzeń

1. Kiedy do produktu dołączony jest niniejszy przekreślony symbol kołowego pojemnika na śmieci, oznacza to, że produkt jest objęty dyrektywą 2002/96/EC.
2. Wszystkie elektryczne i elektroniczne produkty powinny być utylizowane niezależnie od odpadów miejskich, z wykorzystaniem przeznaczonych do tego miejsc składowania wskazanych przez rząd lub miejscowe władze.
3. Właściwy sposób utylizacji starego urządzenia pomoże zapobiec potencjalnie negatywnemu wpływowi na zdrowie i środowisko.
4. Aby uzyskać więcej informacji o sposobach utylizacji starych urządzeń, należy skontaktować się z władzami lokalnymi, przedsiębiorstwem zajmującym się utylizacją odpadów lub sklepem, w którym produkt został kupiony.

Regulatory Information cont.

Estonian

Kasutuskõlbmatu seadme käitlemise kord

1. Kui seade on märgistatud selle elektri- ja elektroonikaseadmete lahuskogumist märgistava tähisega (ratastega prügikonteineri kujutis, millele on rist peale tõmmatud), tuleb toodet käidelda vastavalt Eurodirektiivile 2002/96/EU.
2. Elektri- ja elektroonikaseadmeid ei tohi visata tavalise prügi hulka. Nad kuuluvad lahuskogumisele selleks määratud kogumispunktid.
3. Kasutuskõlbmatu tervikseadme käitlemine tavaprügist lahus on korraldatud selleks, et vältida negatiivseid tagajärgi, mida põhjustaksid seadme osade purunemisel vabaneda võivad ohtlikud jäätmeloodusele või inimorganismile.
4. Täpsemat informatsiooni selle kohta, kuhu ja millal saab ära anda oma kasutamiskõlbmatu elektri- ja elektroonikaseadme, küsige kohalikul omavalitsuselt, prügfirmalt või kaupluselt, kust seadme ostsite.

Latvian

Vecās elektroierices nodošana

1. Ja uz produkta ir simbols ar pārsvītrotu atkritumu tvertni, tas nozīmē, ka produkts ir iekļauts Eiropas direktīvā 2002/96/EC.
2. Visi elektriskie un elektroniskie produkti ir jāutilizē, nododot pašvaldības īpaši noteiktās pieņemšanas vietās. Tos nedrīkst izmest parastās municipalitātes atkritumu urnās.
3. Ievērojot prasības veco elektroierīču utilizēšanā, jūs pasargāsi apkārtējo vidi un cilvēku veselību no iespējami nelabvēlīgajām sekām, kādas varētu rasties, ierīcēm sadaloties nepiemērotā vietā.
4. Lai gūtu plašāku informāciju par veco ierīču utilizēšanas iespējām, sazinieties ar pilsētas pašvaldību, atkritumu savākšanas saimniecību vai veikalu, kurā ierīci iegādājāties.

Lithuanian

Senos įrangos atliekų tvarkymas

1. Užbrauktas konteinerio simbolis pritvirtintas ant prekės reiškia, kad įrangą saugo Europos direktyva 2002/96/EC.
2. Visos elektros ir elektroninės įrangos atliekos turi būti renkamos atskirai ir neišmetamos į atliekų konteinerį kartu su kitomis komunalinėmis atliekomis, taikant specialią atliekų surinkimo sistemą, patvirtintą vyriausybės ar vietos valdžios.
3. Teisingas senos įrangos atliekų tvarkymas, padės išvengti neigiamų pasekmių aplinkai ir žmonių sveikatai.
4. Dėl išsamesnės informacijos apie senos įrangos tvarkymą, prašome kreiptis į miesto valdžią, atliekų pėrdirbimo tarnybą arba parduotuvę, kurioje pirkote įrangą.