



## OWNER'S MANUAL

# Safety and Reference

LED TV\*

\* LG LED TVs are LCD TVs with LED backlighting.

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

40LF6300	42LF6500	32LF595B
43LF6300	50LF6500	43LF5900
49LF6300	55LF6500	49LF5900
55LF6300	60LF6390	55LF5950
60LF6300	65LF6390	
65LF6300		



\* M F L 6 8 6 8 0 2 0 2 \*

[www.lg.com](http://www.lg.com)

P/No : MFL68680202 (1504-REV03)



# Important Safety Instructions

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

Read these instructions.  
Keep these instructions.  
Heed all warnings.  
Follow all instructions.



- 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 the 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.



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.

## ! WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

## ! CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

## ! NOTE

The note helps you understand and use the product safely. Please read the note carefully before using the product.

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

***Wash hands after handling.***



- 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.



- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it.



- Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed, induce vomiting and go to the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- **CAUTION concerning the Power Cord** (Can differ by country): 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 to 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.



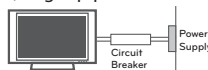
- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).



#### • Grounding

(Except for devices which are not grounded.)

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.



- 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.

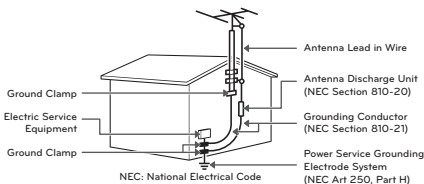


## • Outdoor Antenna Grounding

(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 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 in. Do not install in excessively dusty places.

- If you smell smoke or other odors coming from the TV, unplug the power cord and contact an authorized service center.
- Keep the product away from direct sunlight.
- Never touch this apparatus or antenna during a 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.

## • DISCONNECTING THE DEVICE FROM THE MAIN POWER

The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.

## • Batteries

Store the accessories (battery, etc.) in a safe location out of the reach of children.

- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or allow the batteries to overheat.
- Do not use high voltage electrical equipment near the TV, (e.g., a bug zapper). This may result in product malfunction.

## • Dot Defect

The 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

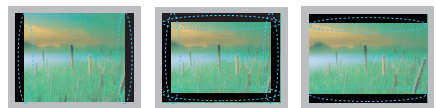
**Cracking noise** A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.

### 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 upon the product. This generated sound does not affect the performance and reliability of the product.

- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot. This does not affect the performance of the product or cause defects in the product.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
- 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.

## 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.

## FCC Notice

(For USA)

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.

## FCC Radio Frequency Interference Requirements (for UNII devices)

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device. This device cannot be co-located with any other transmitter.

## FCC RF Radiation Exposure Statement

[For having wireless function (WLAN, Bluetooth,...)]

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

## Industry Canada Statement

(For Canada)

[For having wireless function (WLAN, Bluetooth,...)]

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

1. this device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

## IC Radiation Exposure Statement

(For Canada)

[For having wireless function (WLAN, Bluetooth,...)]

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body.

**NOTE:** THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

## LG Recycling Policy

(For USA)

LG Electronics offers a customized e-waste takeback and recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product and packaging take-back and recycling service voluntarily in some countries. LG Electronics evaluates products' recyclability at the design step using LG's recyclability evaluation tool, with the goal of improving recyclability where practicable. Through these activities, LG seeks to contribute to conserving natural resources and protecting the environment.

For more information about the LG Recycling Policy, please visit our global site at <http://www.lg.com/global/sustainability/environment/take-back-recycling>.



## WARNING

(For Canada)

[For product having the wireless function using 5 GHz frequency bands]

- The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- The maximum antenna gain permitted for devices in the bands 5250–5350 MHz and 5470–5725 MHz shall comply with the EIRP limit; and
- The maximum antenna gain permitted for devices in the band 5725–5825 MHz shall comply with the EIRP limits specified for point-to-point and non point-to-point operation as appropriate.
- High-power radars are allocated as primary users (i.e., priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

## Note to Cable/TV Installer

(For USA and Canada)

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.

## Viewing 3D Imaging (For 3D models)

### WARNING

#### Viewing Environment

- Viewing Time
  - When watching 3D contents, take five- to fifteen-minute breaks every hour. Viewing 3D contents for a long period of time may cause headache, dizziness, fatigue or eye strain.

#### Those that have a photosensitive seizure or chronic illness

- Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular pattern from 3D contents.
- Do not watch 3D videos if you feel nausea, are pregnant and/ or have a chronic illness such as epilepsy, cardiac disorder, or blood pressure disease, etc.
- 3D Contents are not recommended to those who suffer from stereo blindness or stereo anomaly. Double images or discomfort in viewing may be experienced.

- If you have strabismus (cross-eyed), amblyopia (weak eyesight) or astigmatism, you may have trouble sensing depth and easily feel fatigue due to double images. It is advised to take frequent breaks than the average adult.
- If your eyesight varies between your right and left eye, correct your eyesight prior to watching 3D contents.

#### Symptoms which require discontinuation or refraining from watching 3D contents

- Do not watch 3D contents when you feel fatigue from lack of sleep, overwork or drinking.
- When these symptoms are experienced, stop using/watching 3D contents and get enough rest until the symptom subsides.
  - Consult your doctor when the symptoms persist. Symptoms may include headache, eyeball pain, dizziness, nausea, palpitation, blurriness, discomfort, double image, visual inconvenience or fatigue.

### CAUTION

#### Viewing Environment

- Viewing Distance
  - Maintain a distance of at least twice the screen diagonal length when watching 3D contents. If you feel discomfort in viewing 3D contents, move further away from the TV.

#### Viewing Age

- Infants / Children
  - Usage/ Viewing 3D contents for children under the age of 5 are prohibited.
  - Children under the age of 10 may overreact and become overly excited because their vision is in development (for example: trying to touch the screen or trying to jump into it.) Special monitoring and extra attention is required for children watching 3D contents.
  - Children have greater binocular disparity of 3D presentations than adults because the distance between the eyes is shorter than one of adults. Therefore they will perceive more stereoscopic depth compared to adults for the same 3D image.
- Teenagers
  - Teenagers under the age of 19 may be stimulated by light coming from 3D videos. Advise them not to watch 3D videos for a long time when they are tired.
- Elderly
  - The elderly may perceive less of a 3D effect than the youth. Do not sit closer to the TV than the recommended distance.



Cautions when using the 3D glasses

- Make sure to use LG 3D glasses. Otherwise, you may not be able to view 3D videos properly.
- Do not use 3D glasses instead of your normal glasses, sunglasses or protective goggles.
- Using modified 3D glasses may cause eye strain or image distortion.
- Do not keep your 3D glasses in extremely high or low temperatures. It will cause deformation.
- The 3D glasses are fragile and are easily scratched. Always use a soft, clean piece of cloth when wiping the lenses. Do not scratch the lenses of the 3D glasses with sharp objects or clean/wipe them with chemicals.

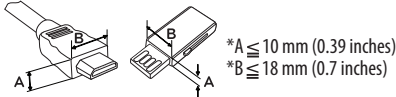
CAUTION

- Do not use any unapproved items to ensure the safety and product's lifespan.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- In case of some model, the thin film on screen is a part of the TV. So don't take it off.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- Do not tighten the screws with too much force; otherwise they may be damaged and come loose later.

Preparing

NOTE

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The items supplied with your product may vary depending upon the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- 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.
- Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV's USB port.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types (3 m or less)
  - High-Speed HDMI®/TM cable
  - High-Speed HDMI®/TM cable with Ethernet



Optional Extras

Optional extras can be changed or modified for quality improvement without any notification. Contact your dealer for buying these items. These devices only work with certain models. The model name or design may be changed manufacturer's circumstances or policies. (Depending upon model)

AN-MR6** Magic Remote	AG-F*** Cinema 3D Glasses	AN-VC550 Smart Camera
AG-F***DP Dual Play Glasses	LG Audio Device	AN-WF500 Wi-Fi/Bluetooth DONGLE



# Maintenance

## Cleaning Your TV

Clean your TV regularly to keep it at peak performance and to extend the product lifespan.

### ⚠ CAUTION

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

## Screen, Frame, Cabinet, and Stand

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

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

### ⚠ CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discoloration.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.

## Power Cord

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

## Lifting and Moving the TV

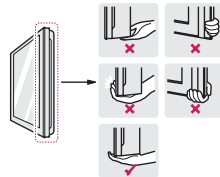
When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

- Move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.

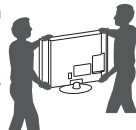
- When holding the TV, the screen should face away from you to avoid damage.



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



- Use at least two people to move a large TV.
- 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.
- When handling the TV, be careful not to damage the protruding joystick button.



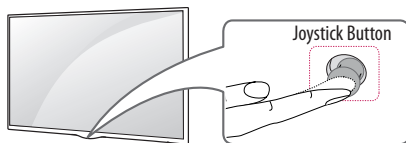
### ⚠ CAUTION

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
- Do not move the TV by holding the cable holder or cable management, as the cable holders may break, and injuries and damage to the TV may occur. (Depending upon model)

## Using the Joystick Button


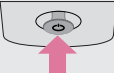
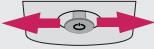
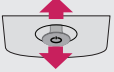
(Image shown may differ from your TV.)

You can operate the TV by pressing the button or moving the joystick left, right, up, or down.





## Basic functions





	When the TV is turned off, place your finger on the joystick button, press it once, and release it.
<b>Power On</b>	
	When the TV is turned on, place your finger on the joystick button, press it once for a few seconds, and release it. All running apps will close.
<b>Power Off</b>	
	Place your finger on the joystick button and move it left or right to adjust the volume level.
<b>Volume Control</b>	
	Place your finger on the joystick button and move it up or down to adjust the channel.
<b>Channels Control</b>	

## NOTE

- Move the joystick button up, down, left, or right. Be careful not to press it. If you press it first, you may not be able to adjust the volume or scroll through the channels.

## Adjusting the Menu

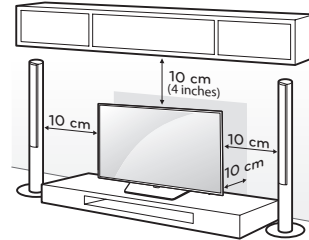
When the TV is turned on, press the joystick button one time. You can adjust the menu items moving the joystick button up, down, left, or right.

	Turns the power off.
	Accesses the quick settings. (Depending upon model)
	Clears on-screen displays and returns to TV viewing.
	Changes the input source.

## Mounting on a Table

(Image shown may differ from your TV.)

- 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

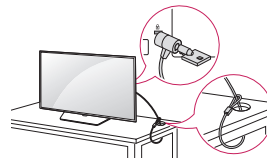
- Do not place the TV near or on sources of heat, as this may result in fire or other damage.

## Using the Kensington Security System (optional)

(Depending upon model)

(Image shown may differ from your TV.)

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



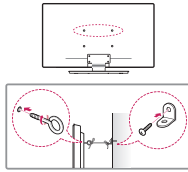
## NOTE

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



# Securing the TV to a Wall (optional)

(Depending upon model)  
(Image shown may differ from your TV.)



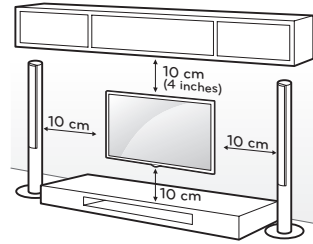
- 1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.  
- If there are bolts inserted at the eye-bolts position, remove the bolts first.
- 2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.
- 3 Connect the eye-bolts and wall brackets tightly with a sturdy rope or cable. Make sure to keep the rope parallel to 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.

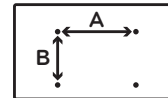


Make sure to use screws and wall mounts that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Model	40/43LF6300 32LF595B 43LF5900	42/50/55LF6500 55LF5950
VESA (A x B)	200 x 200	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW240B MSW240	LSW440B MSW240

Model	49/55LF6300 49LF5900	60/65LF6300 60/65LF6390
VESA (A x B)	300 x 300	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW350B MSW240	LSW350B



## CAUTION

- Disconnect the power before moving or installing the TV. Otherwise electric shock may occur.
- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- 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. When using a third-party wall mount, it is not covered by the warranty.
- Do not overtighten 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.

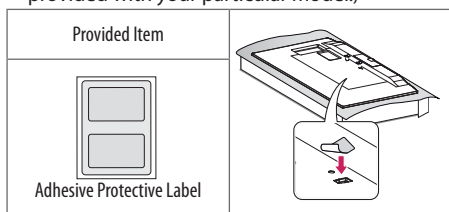
# Mounting on a Wall

An optional wall mount can be used with your LG television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount. The LG wall mount is easy to adjust or to connect the cables. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. If you are using a non-adjustable mount, attach the mount to the wall. Attach the cables to the TV first, then attach the TV to the mount.

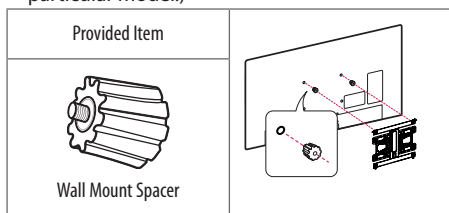


# NOTE

- 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 upon the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount.
- When using the wall mounting bracket, apply the adhesive protective label to cover the unused stand opening(s). This will prevent the accumulation of dust and dirt. (Use only when provided with your particular model.)



- When attaching a wall mounting bracket to the TV, insert the wall mount inner spacers into the TV wall mount holes to adjust the vertical angle of the TV. (Use only when provided with your particular model.)



## Connections (Notifications)

You can connect various external devices to the TV. Supported external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices. For more information on external device's connection, refer to the manual provided with each device.

# 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 connections may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- 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.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.

## Connecting to an Antenna or Cable

Connect an antenna, cable, or cable box to watch TV. The RF cable may not be supplied, depending upon the model.

# 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.

# NOTE

- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital.



## Other Connections

Connect your TV to external devices. For the best picture and audio quality, connect the external device and the TV with the HDMI cable. Depending upon the model, a cable may not be provided.

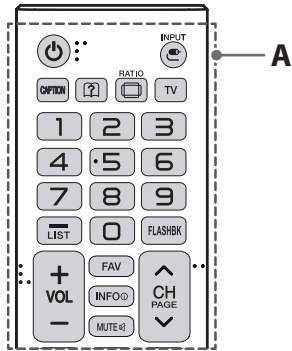
## Remote Control

(Depending upon model)

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution. To remove the batteries, perform the installation actions in reverse. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.

### ⚠ CAUTION

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



**⏻ (POWER)** Turns the TV on or off.

**📶 (INPUT)** Changes the input source.

**CC (CAPTION)** Activates or deactivates the subtitles.

**🔍 (User Guide)** Sees user-guide.

**📐 (RATIO)** Resizes an image.

**TV** Returns to the last TV channel.

**Number button** Enters numbers.

**- (Dash)** Inserts a dash between numbers such as 2-1 and 2-2.

**LIST** Accesses the saved channel list.

**FLASHBK** Alternates between the two last channels selected (pressing repeatedly).

**⬆ VOL ⬆** Adjusts the volume level.

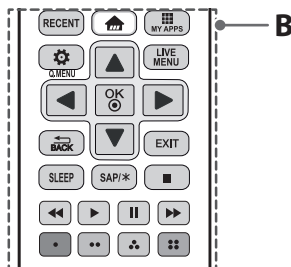
**FAV** Accesses your favorite channel list.

**INFO ⓘ** Shows information on the current program.

**MUTE 🚫** Mutes all sounds.

**⬆ CH ⬆** Scrolls through the saved channels.

**⬆ PAGE ⬆** Moves to the previous or next screen.



**RECENT** Shows the previous history.

**🏠 (Home)** Accesses the Home menu.

**📺 MY APPS** Shows the list of Apps.

**⚙ Q.MENU** Accesses the quick settings.

**LIVE MENU** Shows the list of Channels.

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

**OK Ⓞ** Selects menus or options and confirms your input.

**⬅ BACK** Returns to the previous screen.

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

**SLEEP** Sets the length of time until the TV to turns off.

**SAP/\*** Enables SAP (Secondary Audio Program) Feature.

**Control buttons** (⏮, ⏪, ⏸, ⏩, ⏭) Controls the SIMPLINK compatible devices (USB, SIMPLINK).

**Color buttons** These access special functions in some menus. (🟢, 🟡, 🔴, 🟣)

## Magic Remote Functions

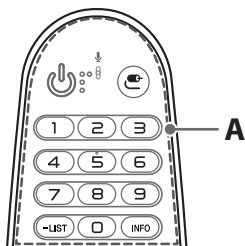
(Depending upon model)

When the message *Magic remote control battery is low*. Change the battery. is displayed, replace the battery. To install batteries, open the battery cover, replace batteries (1.5 V AA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution. Be sure to point the remote control at the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.



## ⚠ CAUTION

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



## A

**⏻ (POWER)** Turns the TV on or off.

**📺 (INPUT)** Changes the input source.

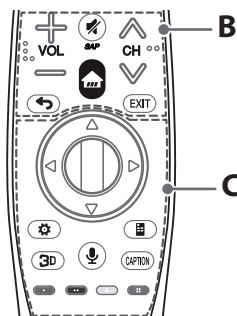
- \* Pressing and holding the **📺 (INPUT)** button displays all the lists of external inputs.

**Number buttons** Enters numbers.

**— (DASH)** Inserts a dash between numbers such as 2-1 and 2-2.

**LIST** Accesses the saved channel list.

**INFO** Views the information of the current channels and screen.



## B

**+VOL —** Adjusts the volume level.

**🔊 (MUTE)** Mutes all sounds.

- \* By pressing and holding the **🔊** button, video descriptions function will be enabled.

- \* **SAP** (Secondary Audio Program) Feature can also be enabled by pressing the **🔊** key.

**^CH^** Scrolls through the saved channels.

**🏠 (Home)** Accesses the Home menu.

**↶ (BACK)** Returns to the previous screen.

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

## C

**⦿ Wheel (OK)** Press the center of the Wheel button to select a menu. You can change channels by using the Wheel button.

**△▽◁▷ (up/down/left/right)** Press the up, down, left or right button to scroll the menu. If you press △▽◁▷ buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.

**⚙ (Q. Settings)** Accesses the Quick Settings.

- \* Pressing and holding the **⚙ (Q. Settings)** button displays the **Advanced** menu.

**📺 (Screen remote)** Displays the Screen Remote.

- \* Accesses the Universal Control Menu in some regions.

**3D** Used for viewing 3D video. (For 3D models)

**🗣 (Voice recognition)**

Network connection is required to use the voice recognition function.

1. Press the voice recognition button.

2. Speak when the voice display window appears on the TV screen.

- \* Use the Magic Remote no further than 10 cm (4 inches) from your face.

- \* The voice recognition may fail when you speak too fast or too slowly.

- \* The recognition rate may vary depending upon the user's characteristics (voice, pronunciation, intonation, and speed) and the environment (noise and TV volume).



**CAPTION** Activates or deactivates the subtitles.

**Color buttons** These access special functions in some menus. (● Red, ● Green, ● Yellow, ● Blue)







## Registering Magic Remote





### How to register the Magic Remote

 (Wheel)	<p>To use the Magic Remote, first pair it with your TV.</p> <ol style="list-style-type: none"><li>1 Put batteries into the Magic Remote and turn the TV on.</li><li>2 Point the Magic Remote at your TV and press the  <b>Wheel (OK)</b> on the remote control.</li></ol> <p>* If the TV fails to register the Magic Remote, try again after turning the TV off and back on.</p>
--	---

### How to deregister the Magic Remote

 (BACK)   (Home)	<p>Press the  (BACK) and  (Home) at the same time, for five seconds, to unpair the Magic Remote with your TV. Pressing and holding the EXIT button will let you cancel and re-register Magic Remote at once.</p>
--	--

### How to use Magic Remote

	<ul style="list-style-type: none"><li>• Shake the Magic Remote slightly to the right and left or press  (Home),  (INPUT),  buttons to make the pointer appear on the screen. (In some TV models, the pointer will appear when you turn the Wheel button.)</li><li>• If the pointer has not been used for a certain period of time or Magic Remote is placed on a flat surface, then the pointer will disappear.</li><li>• If the pointer does not move as you wish, shake Magic Remote to the left and right. The pointer will move to the center of the screen.</li><li>• The Magic Remote depletes batteries faster than a normal remote due to the additional features.</li></ul>
---	---

### Precautions to Take

- Use the remote control within the specified range (within 10 m, 32.8 ft.) You may experience communication failures when using the device outside the coverage area or if there are obstacles within the coverage area.
- You may experience communication failures depending upon the accessories. Devices such as a microwave oven and wireless LAN operate in the same frequency band (2.4 GHz) as the Magic Remote. This may cause communication failures.
- The Magic Remote may not work properly if a wireless router (AP) is within 1 m (3.28 ft) of the TV. Your wireless router should be more than 1 m (3.28 ft) away from the TV.
- Do not disassemble or heat the battery.

- Do not drop the battery. Avoid extreme shocks to the battery.
- Inserting the battery in the wrong way may result in explosion.

## Licenses

Supported licenses may differ by model. For more information about licenses, visit [www.lge.com](http://www.lge.com).



(For LF6300, LF6390, LF6500 series)



(For LF595B, LF5900, LF5950 series)



## Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.



# Troubleshooting

- Cannot control the TV with the remote control.
  - Check the remote control sensor on the product and try again.
  - Check if there is any obstacle between the product and the remote control.
  - Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖)
- No image display and no sound is produced.
  - Check if the product is turned on.
  - Check if the power cord is connected to a wall outlet.
  - Check if there is a problem in the wall outlet by connecting other products.
- The TV turns off suddenly.
  - Check the power control settings. The power supply may be interrupted.
  - Check if the **Sleep Timer/Timer Power off** is activated in the **Timers** settings.
  - If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

# Specifications

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

## 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 °C to 40 °C (32 °F to 104 °F)

**Operating Humidity** Less than 80 %

**Storage Temperature** -20 °C to 60 °C (-4 °F to 140 °F)

**Storage Humidity** Less than 85 %

# Wireless Module Specifications

(For LF595B, LF5900, LF5950 series)

Wireless Module (WN8122E1) Specification	
Standard	IEEE802.11a/b/g/n
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz
Output Power (Max.)	802.11a : 16.5 dBm 802.11b : 16 dBm 802.11g : 15.5 dBm 802.11n - 2.4 GHz : 15.5 dBm 802.11n - 5 GHz: 16.5 dBm
<ul style="list-style-type: none"><li>• Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.</li><li>• This device should be installed and operated with minimum distance 20 cm (7.8 inches) between the device and your body. And this phrase is for the general statement for consideration of user environment.</li><li>• Contains FCC ID: BEJWN8122E1 Contains IC: 2703H-WN8122E1</li></ul>	

(For LF6300, LF6390, LF6500 series)

Wireless module (LGSBW41) Specifications		
	Wireless LAN	Bluetooth
Standard	IEEE 802.11a/b/g/n	Bluetooth Version 4.0
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz	2400 to 2483.5 MHz
Output Power (Max.)	802.11a: 11.5 dBm 802.11b: 11 dBm 802.11g: 10.5 dBm 802.11n - 2.4 GHz: 11 dBm 802.11n - 5 GHz: 12.5 dBm	10 dBm or Lower
<ul style="list-style-type: none"><li>• Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.</li><li>• This device should be installed and operated with minimum distance 20 cm (7.8 inches) between the device and your body. And this phrase is for the general statement for consideration of user environment.</li><li>• Contains FCC ID: BEJLGSBW41 Contains IC: 2703H-LGSBW41</li></ul>		















# CHILD SAFETY:

## PROPER TELEVISION PLACEMENT MATTERS



### THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.



### TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.



### WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.



### MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.





#### Declaration of Conformity

Trade Name	LG
Model	42LF6500-UB, 50LF6500-UB 55LF6500-UB, 40LF6300-UA, 43LF6300-UA 49LF6300-UA, 55LF6300-UA 60LF6300-UA, 65LF6300-UA 60LF6390-UA, 65LF6390-UA 32LF595B-UB, 43LF5900-UB 49LF5900-UB, 55LF5950-UB
Responsible Party	LG Electronics Inc.
Address	1000 Sylvan Ave. Englewood Cliffs NJ 07632 U.S.A
TEL	201 - 266 - 2534

#### LG Customer Information Center

For inquires or comments, visit [www.lg.com](http://www.lg.com) or call;

<b>1-800-243-0000</b>	USA, Consumer User
<b>1-888-865-3026</b>	USA, Commercial User
<b>1-888-542-2623</b>	CANADA

Register your product online!

[www.lg.com](http://www.lg.com)

The model and serial number of the TV are located on the back and one side of the TV.

Record them below should you ever need service.

MODEL \_\_\_\_\_  
SERIAL \_\_\_\_\_





OWNER'S MANUAL

# EXTERNAL CONTROL DEVICE SETUP

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



# KEY CODES

- This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH +, PR +	R/C Button	53	List	R/C Button
01	CH -, PR -	R/C Button	5B	Exit	R/C Button
02	Volume +	R/C Button	60	PIP(AD)	R/C Button
03	Volume -	R/C Button	61	Blue	R/C Button
06	> (Arrow Key / Right Key)	R/C Button	63	Yellow	R/C Button
07	< (Arrow Key / Left Key)	R/C Button	71	Green	R/C Button
08	Power	R/C Button	72	Red	R/C Button
09	Mute	R/C Button	79	Ratio / Aspect Ratio	R/C Button
0B	Input	R/C Button	91	AD (Audio Description)	R/C Button
0E	SLEEP	R/C Button	7A	User Guide	R/C Button
0F	TV, TV/RAD	R/C Button	7C	Smart / Home	R/C Button
10 - 19	* Number Key 0 - 9	R/C Button	7E	SIMPLINK	R/C Button
1A	Q.View / Flashback	R/C Button	8E	▶▶ (Forward)	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8F	◀◀ (Rewind)	R/C Button
20	Text (Teletext)	R/C Button	AA	Info	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AB	Program Guide	R/C Button
28	Return (BACK)	R/C Button	B0	▶ (Play)	R/C Button
30	AV (Audio / Video) Mode	R/C Button	B1	■ (Stop / File List)	R/C Button
39	Caption/Subtitle	R/C Button	BA	(Freeze / Slow Play / Pause)	R/C Button
40	Λ (Arrow Key / Cursor Up)	R/C Button	BB	Soccer	R/C Button
41	V (Arrow Key / Cursor Down)	R/C Button	BD	● (REC)	R/C Button
42	My Apps	R/C Button	DC	3D	R/C Button
43	Menu / Settings	R/C Button	99	AutoConfig	R/C Button
44	OK / Enter	R/C Button	9F	App / *	R/C Button
45	Q.Menu	R/C Button			
4C	List, - (ATSC Only)	R/C Button			

\* Key code 4C (0x4C) is available on ATSC/ISDB models which use major/minor channel.  
(For South Korea, Japan, North America, Latin America except Colombia models)



# EXTERNAL CONTROL DEVICE SETUP

- Image shown may differ from your TV.

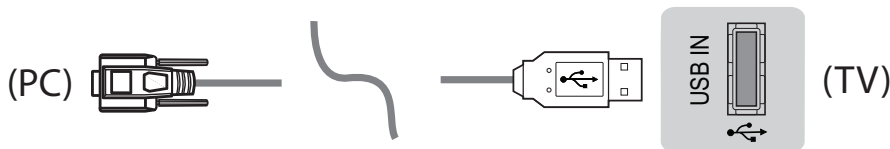
Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

Note: The type of control port on the TV can be different between model series.

- \* Please be advised that not all models support this type of connectivity.
- \* Cable is not provided.

## USB to Serial converter with USB Cable

USB Type



- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

## RS-232C With RS232C Cable

DE9 (D-Sub 9pin) Type

- You need to purchase the RS-232C (DE9, D-Sub 9pin female-to-female type) to RS-232C cable required for the connection between the PC and the TV, which is specified in the manual.

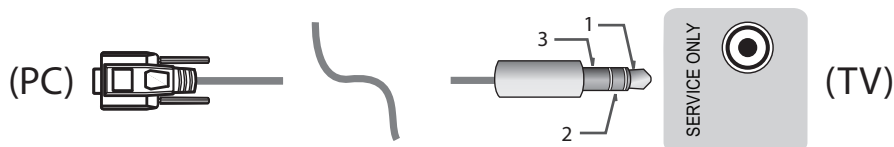


The connection interface may differ from your TV.

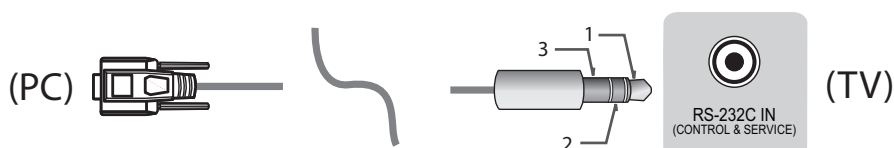


## Phone jack Type

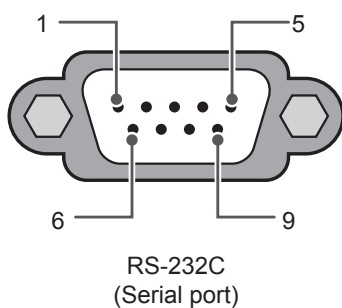
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- \* For other models, connect to the USB port.
- \* The connection interface may differ from your TV.



- or

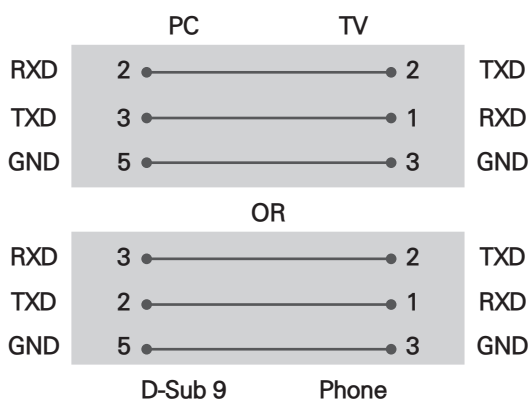


## Customer Computer



## RS-232C configurations

3-Wire Configurations(Not standard)



## Set ID

For Set ID number, see "Real Data Mapping" on p.6

1. Press **SETTINGS** to access the main menus.
2. Press the Navigation buttons to scroll to (**\*General** → **About this TV or OPTION**) and press **OK**.
3. Press the Navigation buttons to scroll to **SET ID** and press **OK**.
4. Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.
5. When you are finished, press **EXIT**.  
\* (Depending on model)



## 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

(Depending on model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power*	k	a	00 to 01	15. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	(p.7)	16. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	17. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	e	00 to 01	18. Equalizer	j	v	(p.8)
05. Volume Control	k	f	00 to 64	19. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	20. Tune Command	m	a	(p.9)
07. Brightness	k	h	00 to 64	21. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
08. Color/ Colour	k	i	00 to 64	22. Key	m	c	Key Codes
09. Tint	k	j	00 to 64	23. Control Backlight, Control Panel Light	m	g	00 to 64
10. Sharpness	k	k	00 to 32	24. Input select (Main)	x	b	(p.11)
11. OSD Select	k	l	00 to 01	25. 3D (Only 3D models)	x	t	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01	26. Extended 3D (Only 3D models)	x	v	(p.11)
13. Treble	k	r	00 to 64	27. Auto Configure	j	u	(p.12)
14. Bass	k	s	00 to 64				

\* Note: During playing or recording media, all commands except Power (ka) and Key (mc) are not executed and treated as NG.

With RS232C cable, TV can communicate "ka command" in power-on or power-off status. but with USB-to-Serial converter cable, the command works only if TV is on.



## Transmission / Receiving Protocol

### Transmission

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

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

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

[Set ID] : You can adjust the [Set ID] to choose desired monitor ID number in option menu.

Adjustment range in TV is 1 to 99. If [Set ID] value is selected to '0', every connected set can be controlled.

\* [Set ID] is indicated as decimal (1 to 99) on menu and as Hexadecimal (0x00 to 0x63) on transmission/receiving protocol.

[DATA] : To transmit command data (hexadecimal). Transmit 'FF' data to read status of command.

[Cr] : Carriage Return - ASCII code '0x0D'

[ ] : Space - ASCII code '0x20'

### OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

\* The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

### Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

\* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code

### Real data mapping (Hexadecimal ↔ Decimal)

\* When you enter the [data] in hexadecimal, refer to following conversion table.

\* Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

00 : Step 0	32 : Step 50 (Set ID 50)	FE : Step 254
01 : Step 1 (Set ID 1)	33 : Step 51 (Set ID 51)	FF : Step 255
...	...	...
0A : Step 10 (Set ID 10)	63 : Step 99 (Set ID 99)	01 00 : Step 256
...	...	...
0F : Step 15 (Set ID 15)	C7 : Step 199	27 0E : Step 9998
10 : Step 16 (Set ID 16)	C8 : Step 200	27 0F : Step 9999
...	...	...



\* Commands may work differently depending on model and signal.

## 01. Power (Command: k a)

- To control Power \*On or Off of the set.

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

Data 00 : Power Off      01 : \*Power On

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

- To Show TV is Power On or \*Off

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

Ack [a][ ][Set ID][ ][OK][Data][x]

\* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

## 02. Aspect Ratio (Command: k c)

(Main Picture Size)

- To adjust the screen format. (Main picture format)  
You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

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

Data 01 : Normal screen (4:3)	07 : 14:9 (Europe, Colombia, Mid-East,
02 : Wide screen (16:9)	Asia except South Korea and Japan)
04 : Zoom	09 : * Just Scan
05 : Zoom 2 (Latin America except Colombia Only)	0B : Full Wide (Europe, Colombia, Mid- East, Asia except South Korea and Japan)
06 : Set by Program/ Original	10 to 1F : Cinema Zoom 1 to 16 0c : 21:9 (Depending on model)

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

- \* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
- \* In DTV/HDMI/Component mode (high-definition), Just Scan is available.
- \* Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

## 03. Screen Mute (Command: k d)

- To select screen mute on/off.

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

Data 00 : Screen mute off (Picture on)  
Video mute off  
01 : Screen mute on (Picture off)  
10 : Video mute on

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

- \* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

## 04. Volume Mute (Command: k e)

- To control volume mute on/off.  
You can also adjust mute using the MUTE button on remote control.

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

Data 00 : Volume mute on (Volume off)  
01 : Volume mute off (Volume on)

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

## 05. Volume Control (Command: k f)

- To adjust volume.  
You can also adjust volume with the volume buttons on remote control.

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

Data Min : 00 to Max : 64

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

## 06. Contrast (Command: k g)

- To adjust screen contrast.  
You can also adjust contrast in the PICTURE menu.

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

Data Min : 00 to Max : 64

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

## 07. Brightness (Command: k h)

- To adjust screen brightness.  
You can also adjust brightness in the PICTURE menu.

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

Data Min : 00 to Max : 64

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

## 08. Color/Colour (Command: k i)

- To adjust the screen Color(Colour).  
You can also adjust colour in the PICTURE menu.

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



Data Min : 00 to Max : 64

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

09. Tint (Command: k j)

- To adjust the screen tint.  
You can also adjust tint in the PICTURE menu.

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

Data Red : 00 to Green : 64

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

10. Sharpness (Command: k k)

- To adjust the screen sharpness.  
You can also adjust sharpness in the PICTURE menu.

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

Data Min : 00 to Max : 32

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

11. OSD Select (Command: k l)

- To select OSD (On Screen Display) on/off when controlling remotely.

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

Data 00 : OSD off                      01 : OSD on

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

12. Remote control lock mode (Command: k m)

- To lock the front panel controls on the monitor and remote control.

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

Data 00 : Lock off                      01 : Lock on

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

- \* If you are not using the remote control, use this mode.  
When main power is off & on (plug-off and plug-in, after 20 - 30 seconds), external control lock is released.
- \* In the standby mode (DC off by off timer or 'ka', 'mc' command), and if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Treble (Command: k r)

- To adjust treble.  
You can also adjust in the AUDIO menu.

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

Data Min : 00 to Max : 64

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

\* (Depending on model)

14. Bass (Command: k s)

- To adjust Bass.  
You can also adjust in the AUDIO menu.

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

Data Min : 00 to Max : 64

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

\* (Depending on model)

15. Balance (Command: k t)

- To adjust balance.  
You can also adjust balance in the AUDIO menu.

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

Data Min : 00 to Max : 64

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

16. Color(Colour) Temperature (Command: x u)

- To adjust colour temperature. You can also adjust Color(Colour) Temperature in the PICTURE menu.

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

Data Min : 00 to Max : 64

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

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

- To control the ISM method. You can also adjust ISM Method in OPTION menu.

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

Data Min : 02: Orbiter

08: Normal

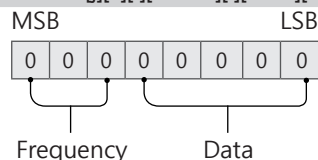
20: Color(Colour) Wash

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

18. Equalizer (Command : j v)

- Adjust EQ of the set.

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



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1st Band	0	0	0	0	0	0(decimal)
0	0	1	2nd Band	0	0	0	0	1	1(decimal)
0	1	0	3rd Band	...	...	...	...	...	...
0	1	1	4th Band	0	0	0	1	1	19(decimal)



1	0	0	5th Band	0	0	1	0	1	20(decimal)
---	---	---	----------	---	---	---	---	---	-------------

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

\* It depends on model, and can adjust when sound mode is EQ adjustable value.

#### 19. Energy Saving (Command: j q)

- To reduce the power consumption of the TV. You can also adjust Energy Saving in PICTURE menu.

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

#### Data

- 00 : Off
- 01 : Minimum
- 02 : Medium
- 03 : Maximum
- 04 : Auto (For LCD TV / LED TV) / Intelligent sensor (For PDP TV)
- 05 : Screen off

\* (Depending on model)

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

#### 20. Tune Command (Command: m a)

- \* This command may work differently depending on model and signal.
- For Europe, Mid-East, Colombia, Asia except South Korea and Japan Model
- Select channel to following physical number.

Transmission [m][a][ ][Set ID][ ][Data 00][ ][Data 01][ ][Data 02][Cr]

\* Analog Antenna/Cable

[Data 00][Data 01] Channel Data

Data 00 : High byte channel data

Data 01 : Low byte channel data  
- 00 00 ~ 00 C7 (Decimal : 0 ~ 199)

Data 02 : Input Source (Analog)

- 00 : Antenna TV (ATV)
- 80 : Cable TV (CATV)

\* Digital Antenna/Cable/Satellite

[Data 00][Data 01]: Channel Data

Data 00 : High Channel data

Data 01 : Low Channel data  
- 00 00 ~ 27 0F (Decimal: 0 ~ 9999)

Data 02 : Input Source (Digital)

- 10 : Antenna TV (DTV)
- 20 : Antenna Radio (Radio)
- 40 : Satellite TV (SDTV)
- 50 : Satellite Radio (S-Radio)
- 90 : Cable TV (CADTV)
- a0 : Cable Radio (CA-Radio)

\* Tune Command Examples:

1. Tune to the Analog antenna (PAL) Channel 10.

Set ID = All = 00

Data 00 & 01 = Channel Data is 10 = 00 0a

Data 02 = Analog Antenna TV = 00

Result = **ma 00 00 0a 00**

#### 2. Tune to the digital antenna (DVB-T) Channel 01.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1 = 00 01

Data 02 = Digital Antenna TV = 10

Result = **ma 00 00 01 10**

#### 3. Tune to the satellite (DVB-S) Channel 1000.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1000 = 03 E8

Data 02 = Digital Satellite TV = 40

Result = **ma 00 03 E8 40**

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]

[Data 02][x][a][ ][Set ID][ ][NG][Data 00][x]

- For South Korea, North/Latin America except Colombia Model

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

Transmission [m][a][ ][0][ ][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 from the Major / Minor number, the Physical number is not required when sending a command in Digital.

\* Analog Antenna/Cable

Data 00 : Physical Channel Number

- Antenna (ATV) : 02~45 (Decimal: 2 ~ 69)

- Cable (CATV) : 01, 0E~7D (Decimal : 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number

Data 01 & 02: xx (Don't care)

Data 03 & 04: xx (Don't care)

Data 05: Input Source (Analog)

- 00 : Antenna TV (ATV)
- 01 : Cable TV (CATV)

\* Digital Antenna/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01 : High byte Channel Data

Data 02 : Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number

Data 03 : High byte Channel Data

Data 04 : Low byte Channel Data

Data 05 : Input Source (Digital)

- 02 : Antenna TV (DTV) – Use Physical Channel Number

- 06 : Cable TV (CADTV) – Use Physical Channel



Number

- 22 : Antenna TV (DTV) – Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) - Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)

Two bytes are available for each major and minor channel data, but usually the low byte is used alone (high byte is 0).

\* Tune Command Examples:

1. Tune to the Analog cable (NTSC) channel 35.

Set ID = All = 00  
 Data 00 = Channel Data is 35 = 23  
 Data 01 & 02 = No Major = 00 00  
 Data 03 & 04 = No Minor = 00 00  
 Data 05 = Analog Cable TV = 01  
 Total = **ma 00 23 00 00 00 01**

2. Tune to the digital antenna (ATSC) channel 30-3.

Set ID = All = 00  
 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 = Digital Antenna TV = 22  
 Total = **ma 00 00 00 1E 00 03 22**

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]

[Data 02][Data 03][Data 04][Data 05]

[x][a][ ][Set ID][ ][NG][Data 00][x]

- For Japan Model

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

Transmission [m][a][ ][0][ ][Data00][ ][Data01]

[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]

\* Digital Antenna/Satellite

Data 00: xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01: High byte Channel Data

Data 02: Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor/Branch Channel Number

(Don't care in Satellite)

Data 03: High byte Channel Data

Data 04: Low byte Channel Data

Data 05 : Input Source (Digital/Satellite for Japan)

- 02 : Antenna TV (DTV)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

\* Tune Command Examples:

- 1 Tune to the digital antenna (ISDB-T) channel 17-1.

Set ID = All = 00  
 Data 00 = Don't know Physical = 00  
 Data 01 & 02 = Major is 17 = 00 11  
 Data 03 & 04 = Minor/Branch is 1 = 00 01

Data 05 = Digital Antenna TV = 02

Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Don't Care = 00 00

Data 05 = Digital BS TV = 07

Total = **ma 00 00 00 1E 00 00 07**

\* This feature is varied based on the model.

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]

[Data 02][Data 03][Data 04][Data 05]

[x][a][ ][Set ID][ ][NG][Data 00][x]

21. Channel(Programme) Add/Del(Skip)  
(Command: m b)

- To skip current channel(programme) for next time.

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

Data 00 : Del(ATSC,ISDB)/Skip(DVB) 01 : Add

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

\* Set the saved channel status to del(ATSC, ISDB)/skip(DVB) or add.

22. Key (Command: m c)

- To send IR remote key code.

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

Data Key code - p.2.

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

23. Control Backlight (Command: m g)

- For LCD TV / LED TV

- To control the backlight.

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

Data Min : 00 to Max : 64

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

Control Panel Light (Command: m g)

- For Plasma TV

- To control the panel light.

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

Data Min : 00 to Max : 64

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



## 24. Input select (Command: x b) (Main Picture Input)

- To select input source for main picture.

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

### Data

00 : DTV                      01 : CADTV  
02 : Satellite DTV        10 : ATV  
ISDB-BS (Japan)  
03 : ISDB-CS1 (Japan)  
04 : ISDB-CS2 (Japan)  
11 : CATV  
  
20 : AV or AV1            21 : AV2  
40 : Component1        41 : Component2  
60 : RGB  
  
90 : HDMI1                91 : HDMI2  
92 : HDMI3                93 : HDMI4

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

- \* This function depends on model and signal.

## 25. 3D(Command: x t) (only 3D models) (Depending on model)

- To change 3D mode for TV.

Transmission [x][t][ ][Set ID][ ][Data 00][ ][Data 01]  
[ ][Data 02][ ][Data 03][Cr]

- \* (Depending on model)

### Data Structure

[Data 00] 00 : 3D On  
          01 : 3D Off  
          02 : 3D to 2D  
          03 : 2D to 3D  
[Data 01] 00 : Top and Bottom  
          01 : Side by Side  
          02 : Check Board  
          03 : Frame Sequential  
          04 : Column interleaving  
          05 : Row interleaving  
[Data 02] 00 : Right to Left  
          01 : Left to Right  
[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14  
          (\*transmit by Hexadecimal code)

- \* [Data 02], [Data 03] functions depend on model and signal.
- \* If [Data 00] is 00 (3D On), [Data 03] has no meaning.
- \* If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
- \* If [Data 00] is 03 (2D to 3D), [Data 01] and [Data 02] have no meaning.
- \* If [Data 00] is 00 (3D On) or 03 (2D to 3D), [Data 03] works when 3D Mode (Genre) is manual only.
- \* All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
-----------	-----------	-----------	-----------

00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

Ack [t][ ][Set ID][ ][OK][Data00][Data01][Data02]  
[Data03][x]  
[t][ ][Set ID][ ][NG][Data00][x]

## 26. Extended 3D(Command: x v) (only 3D models) (Depending on model)

- To change 3D option for TV.

Transmission [x][v][ ][Set ID][ ][Data 00][ ][Data 01][Cr]

### [Data 00] 3D option

00 : 3D Picture Correction  
01 : 3D Depth (3D Mode is Manual Only)  
02 : 3D Viewpoint  
06 : 3D Color Correction  
07 : 3D Sound Zooming  
08 : Normal Image View  
09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

### 1) When [Data 00] is 00

00 : Right to Left  
01 : Left to Right

### 2) When [Data 00] is 01, 02

Data Min: 0 - Max: 14 (\*transmit by Hexadecimal code)

Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)

- \* This option works when 3D Mode (Genre) is manual only.

### 3) When [Data 00] is 06, 07

00 : Off  
01 : On

### 4) When [Data 00] is 08

00 : Revert to 3D video from 3D-to-2D converted 2D video  
01 : Change 3D video to 2D video, except 2D-to-3D video

- \* If conversion condition doesn't meet, command is treated as NG.

### 5) When [Data 00] is 09

00 : Standard                      01 : Sport  
02 : Cinema                        03 : Extreme  
04 : Manual                         05 : Auto

Ack [v][ ][Set ID][ ][OK][Data00][Data01][x]  
[v][ ][Set ID][ ][NG][Data00][x]



27. Auto Configure (Command: j u)  
(Depending on model)

- To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

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

Data 01 : To set

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





### ENGLISH Easy Setup Guide

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

### ESPAÑOL Guía Rápida de Configuración

Lea atentamente este manual antes de poner en marcha el equipo y consérvelo para futuras consultas.

### FRANÇAIS Guide de configuration rapide

Avant d'utiliser l'appareil, veuillez lire attentivement ce manuel et le conserver pour pouvoir vous y reporter ultérieurement.

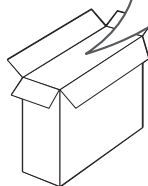
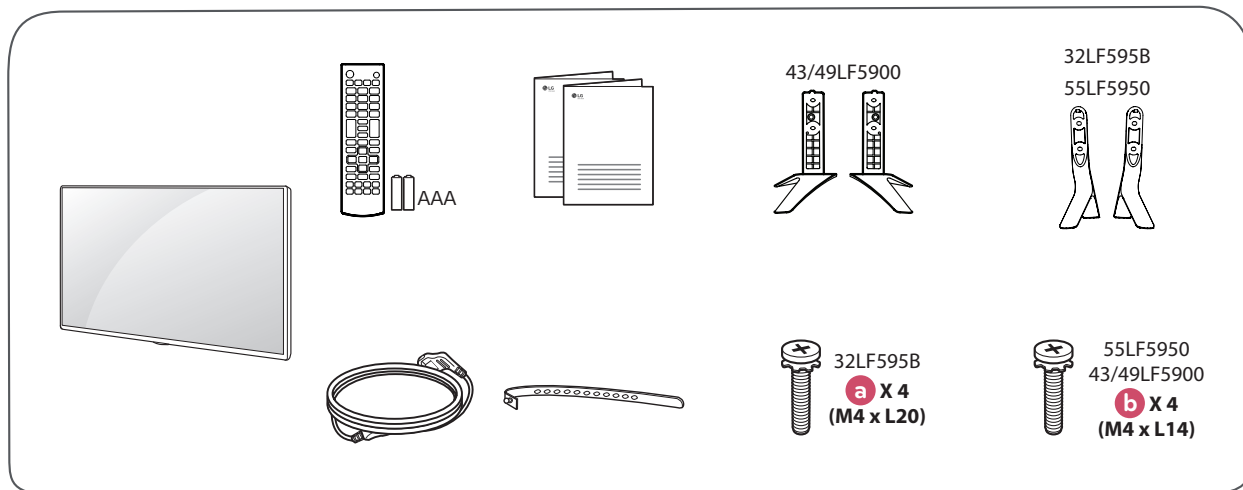
### LED TV

32LF595B

43LF5900

49LF5900

55LF5950



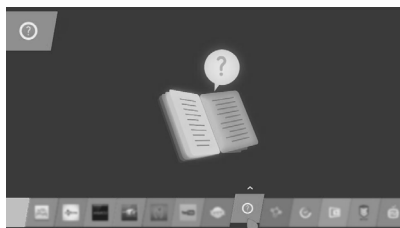
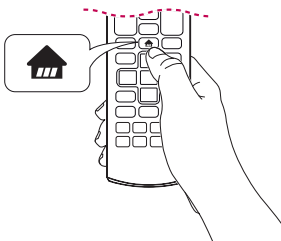
[www.lg.com](http://www.lg.com)

P/NO : MFL68683632 (1505-REV02)





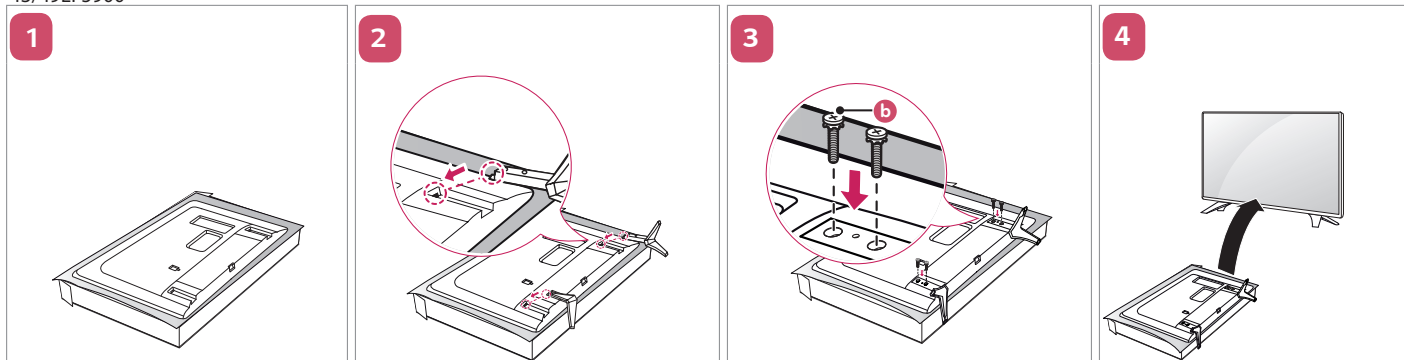
**ENGLISH** Read **Safety and Reference**.  
**ESPAÑOL** Leer **Seguridad y Consultas**.  
**FRANÇAIS** Lisez **Sécurité et références**.



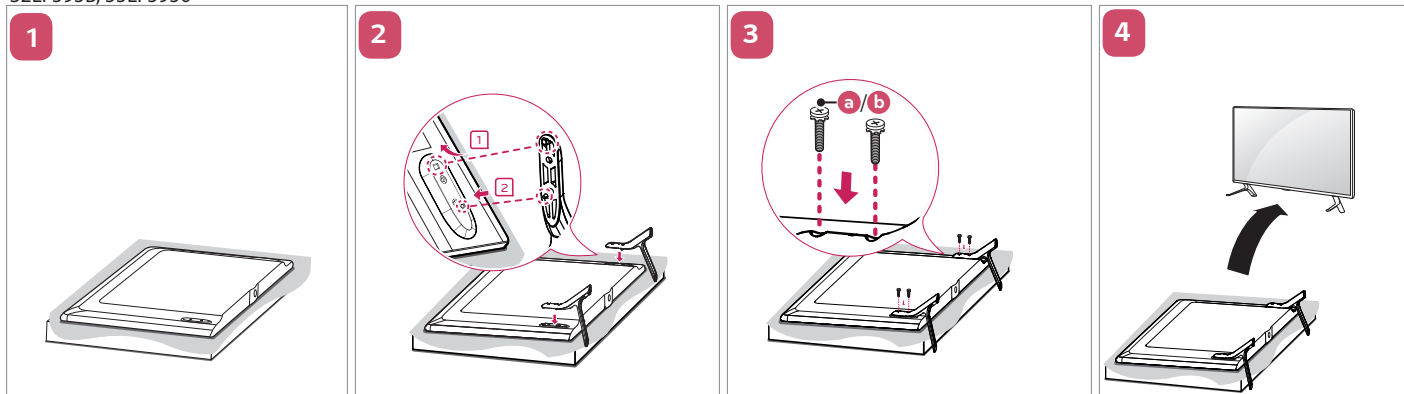


# 1

43/49LF5900



32LF595B, 55LF5950



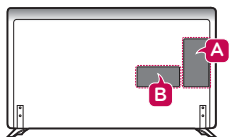


2

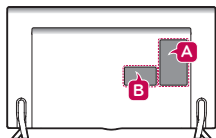
ENGLISH  
ESPAÑOL  
FRANÇAIS

Image shown may differ from your TV.  
La imagen puede ser diferente a la de su televisor.  
Cette illustration peut ne pas correspondre à votre téléviseur.

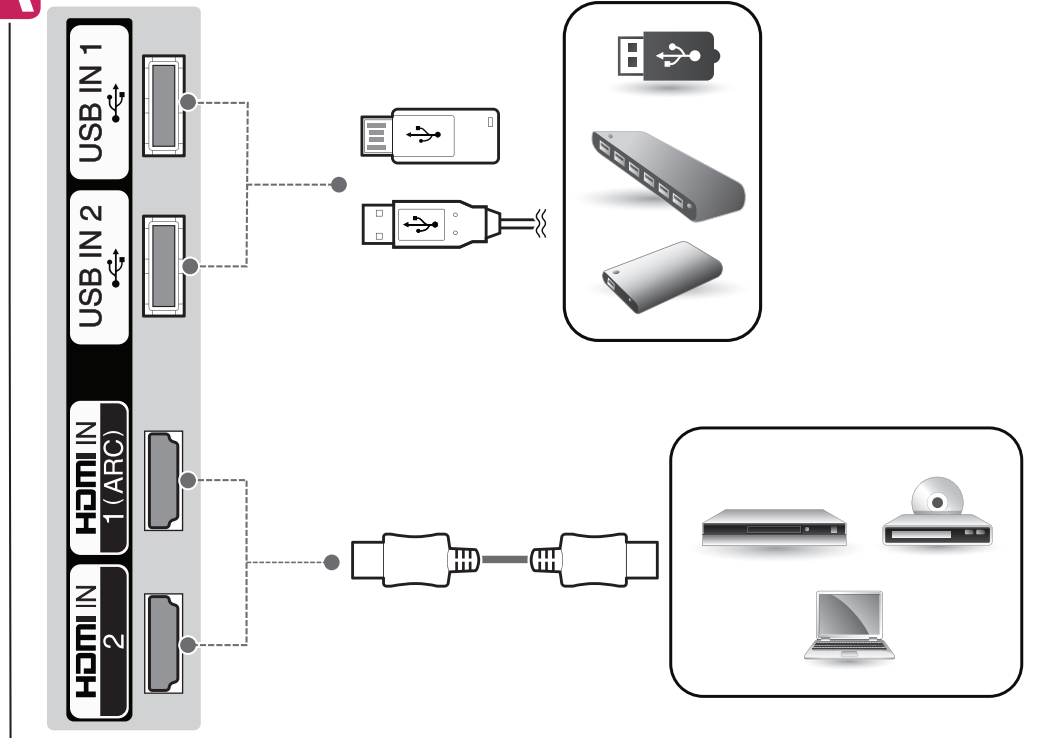
43/49LF5900



32LF595B, 55LF5950

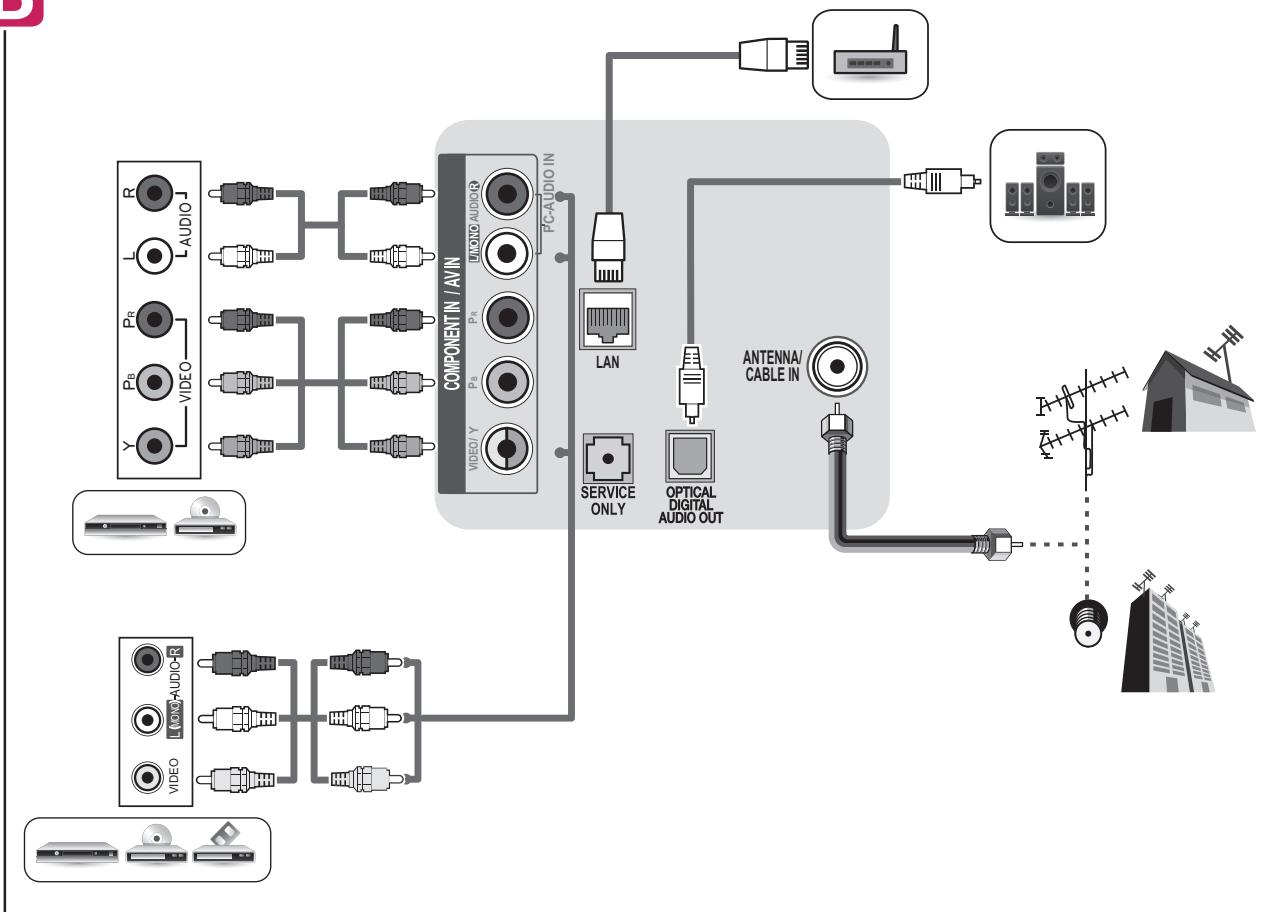


A





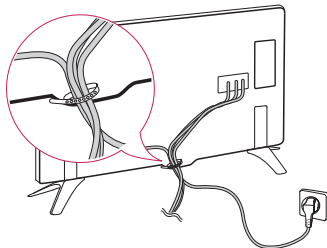
**B**



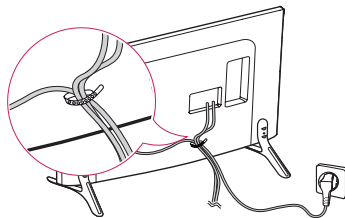


3

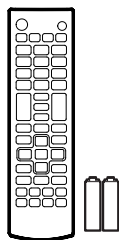
43/49LF5900



32LF595B, 55LF5950



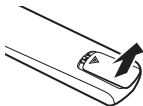
4



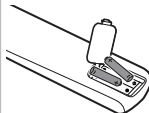
1



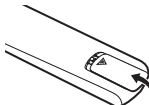
2



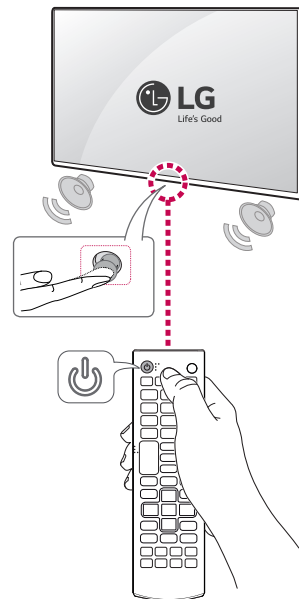
3



4



5





**ENGLISH**

MODELS		32LF595B (32LF595B-UB)	43LF5900 (43LF5900-UB)	49LF5900 (49LF5900-UB)
Dimensions (W x H x D)	With stand	732 x 481 x 207 (mm) 28.8 x 18.9 x 8.1 (inches)	971 x 624 x 198 (mm) 38.2 x 24.5 x 7.7 (inches)	1,103 x 698 x 198 (mm) 43.4 x 27.4 x 7.7 (inches)
	Without stand	732 x 437 x 55.5 (mm) 28.8 x 17.2 x 2.1 (inches)	971 x 575 x 58.7 (mm) 38.2 x 22.6 x 2.3 (inches)	1,103 x 650 x 58.7 (mm) 43.4 x 25.5 x 2.3 (inches)
Weight	With stand	6.2 kg (13.6 lbs)	9.8 kg (21.6 lbs)	13.4 kg (29.5 lbs)
	Without stand	6.0 kg (13.2 lbs)	9.5 kg (20.9 lbs)	13.1 kg (28.8 lbs)
Power requirement		AC 100 - 240 V ~ 50 / 60 Hz		
Current value / Power consumption		1.1A / 65 W	1.1 A / 65 W	0.75 A / 75 W
MODELS		55LF5950 (55LF5950-UB)		
Dimensions (W x H x D)	With stand	1,243 x 772 x 247 (mm) 48.9 x 30.3 x 9.7 (inches)		
	Without stand	1,243 x 725 x 56.8 (mm) 48.9 x 28.5 x 2.2 (inches)		
Weight	With stand	17.7 kg (39.0 lbs)		
	Without stand	17.3 kg (38.1 lbs)		
Power requirement		AC 100 - 240 V ~ 50 / 60 Hz		
Current value / Power consumption		1.3 A / 130 W		



