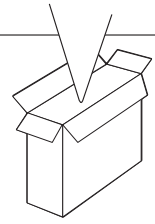
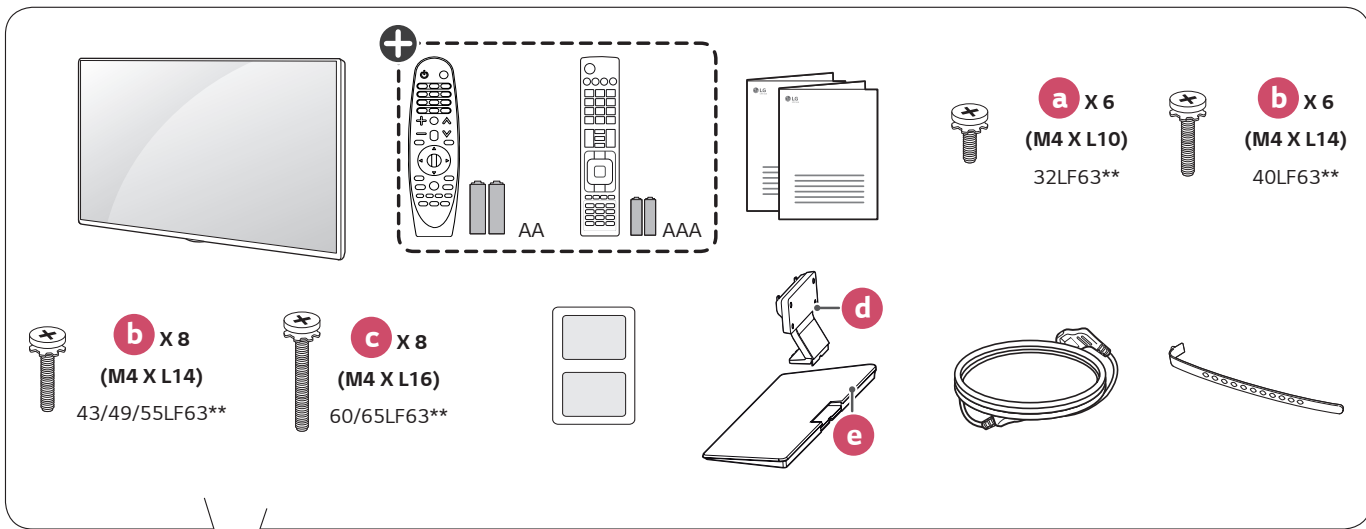




LED TV
LF63**



www.lg.com



⊕ : Depending on model / Selon le modèle / Dependendo do modelo / حسب الطراز

P/No: MFL68684013(1506-REV02)
Printed in Korea



English

- Read **Safety and Reference**.
- For the power supply and power consumption, refer to the label attached to the product.

Français

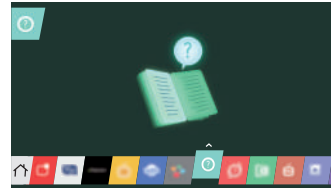
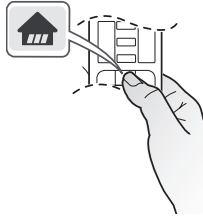
- Lire le document **Sécurité et référence**.
- Reportez-vous à l'étiquette apposée sur le téléviseur pour connaître l'alimentation et la consommation électriques.

Português

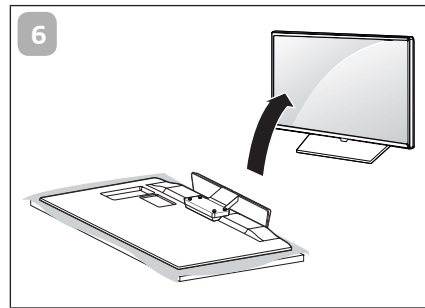
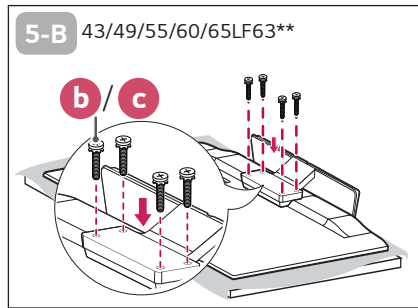
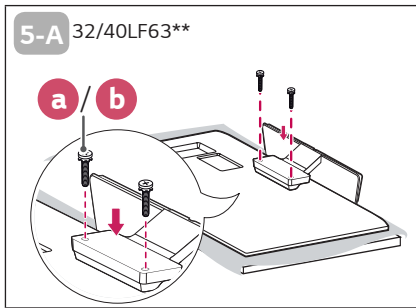
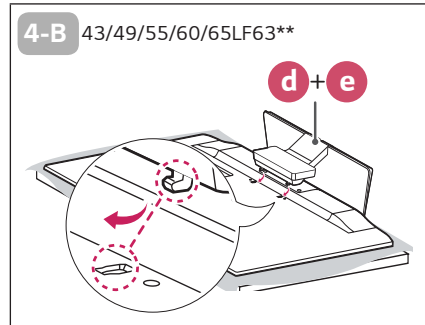
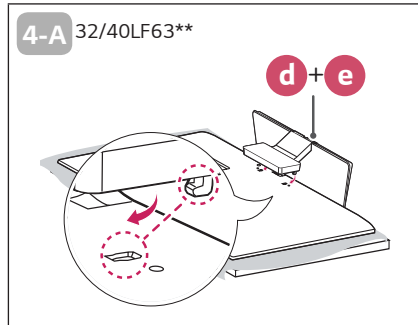
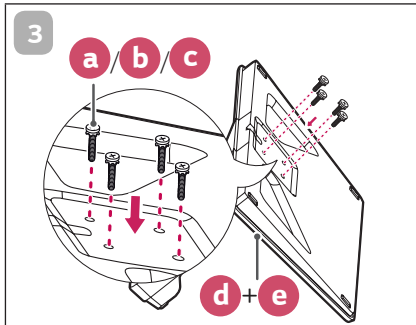
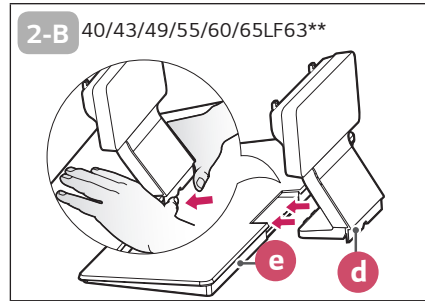
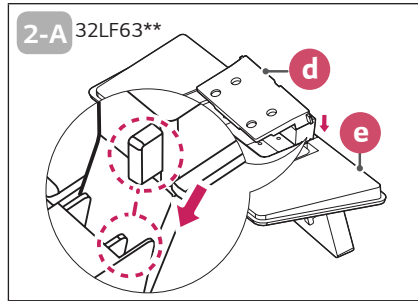
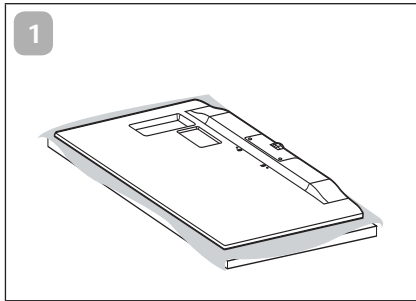
- Consulte o manual **Segurança e referência**.
- No que respeita à fonte de alimentação e ao consumo de energia, consulte a etiqueta mostrada no produto.

العربية

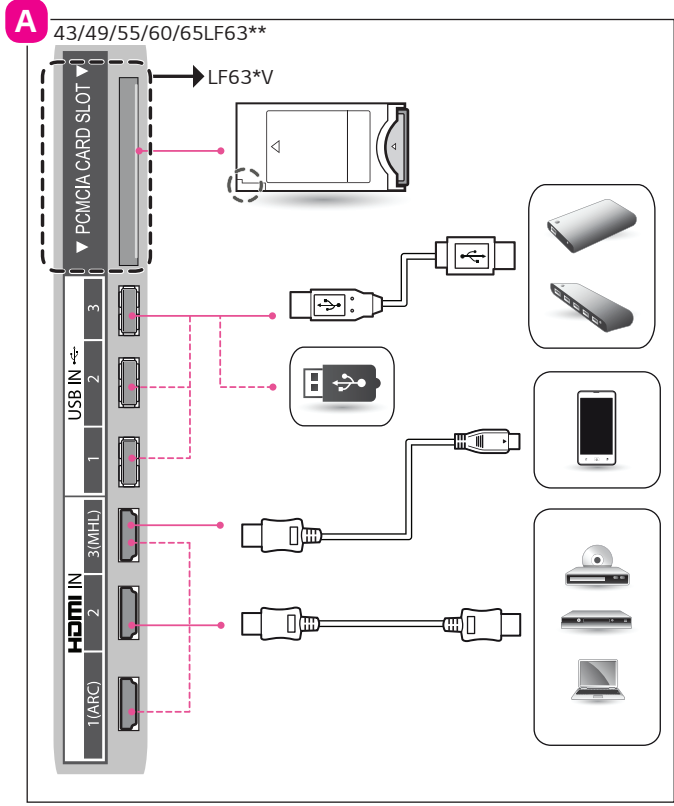
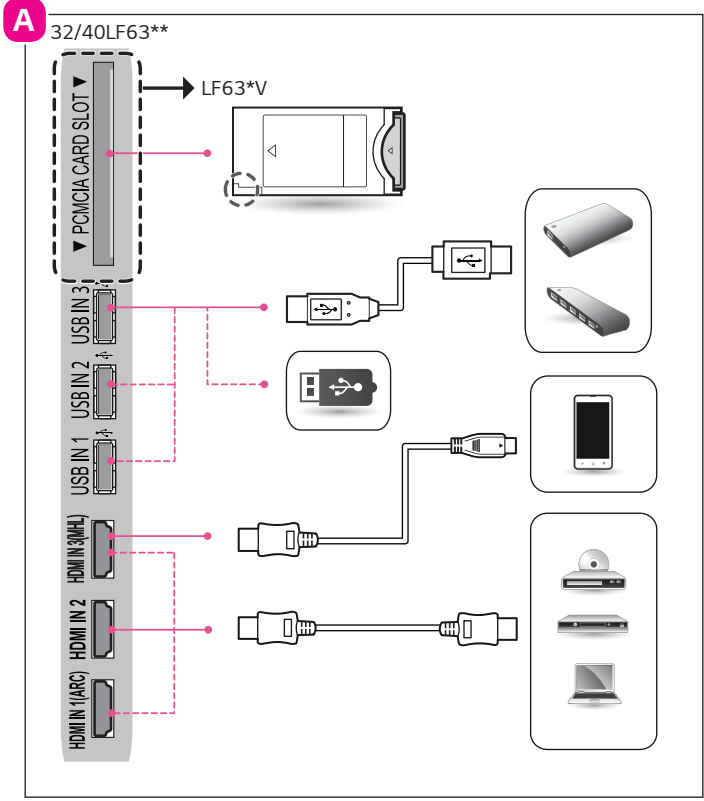
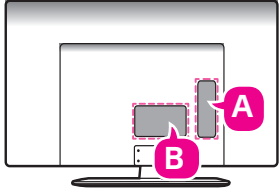
- قراءة الأمان والمرجع.
- لمعرفة المزيد حول مصدر الإمداد بالطاقة المطلوب ومعايير استهلاك الطاقة، راجع الملصق الموجود على المنتج.



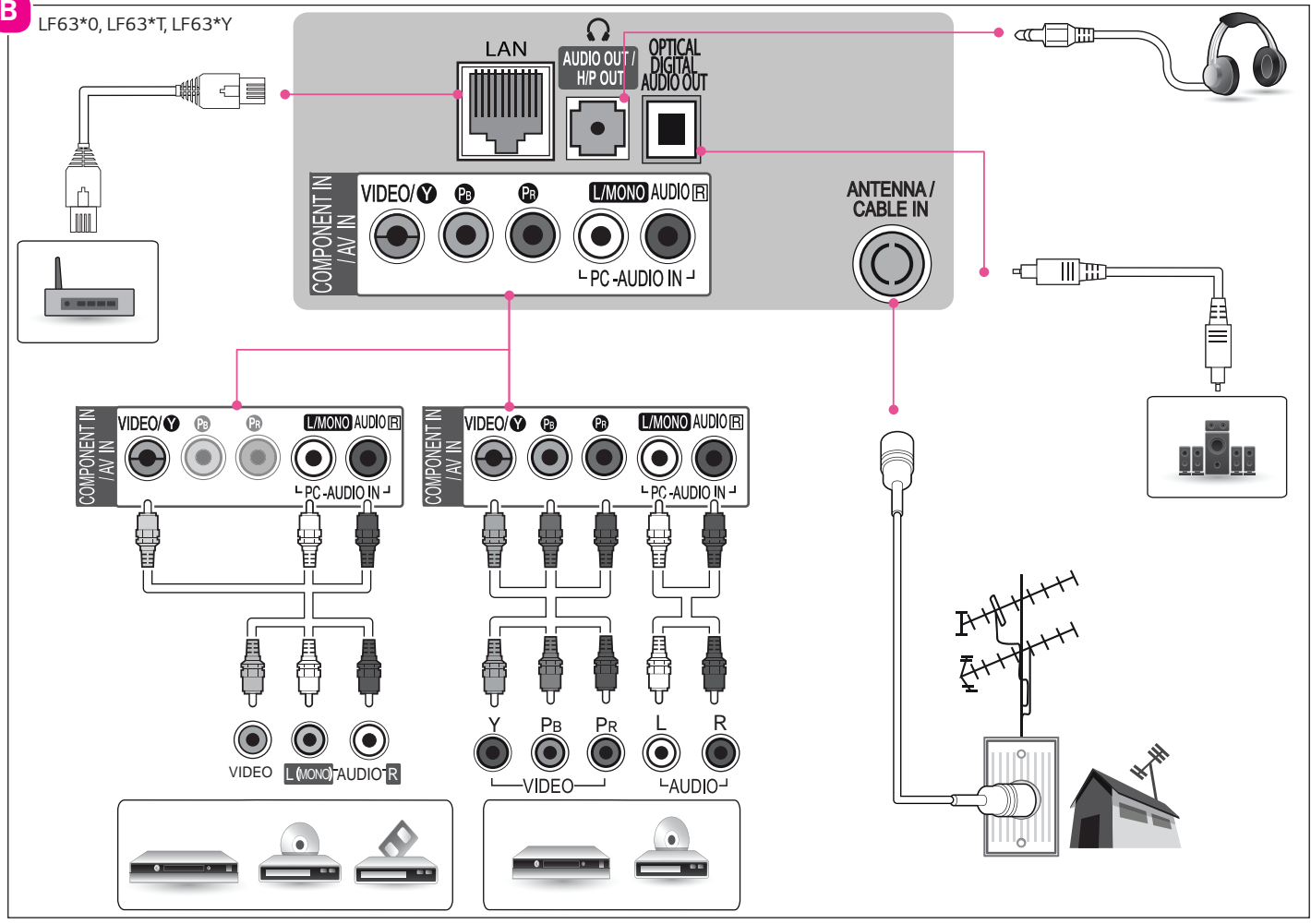
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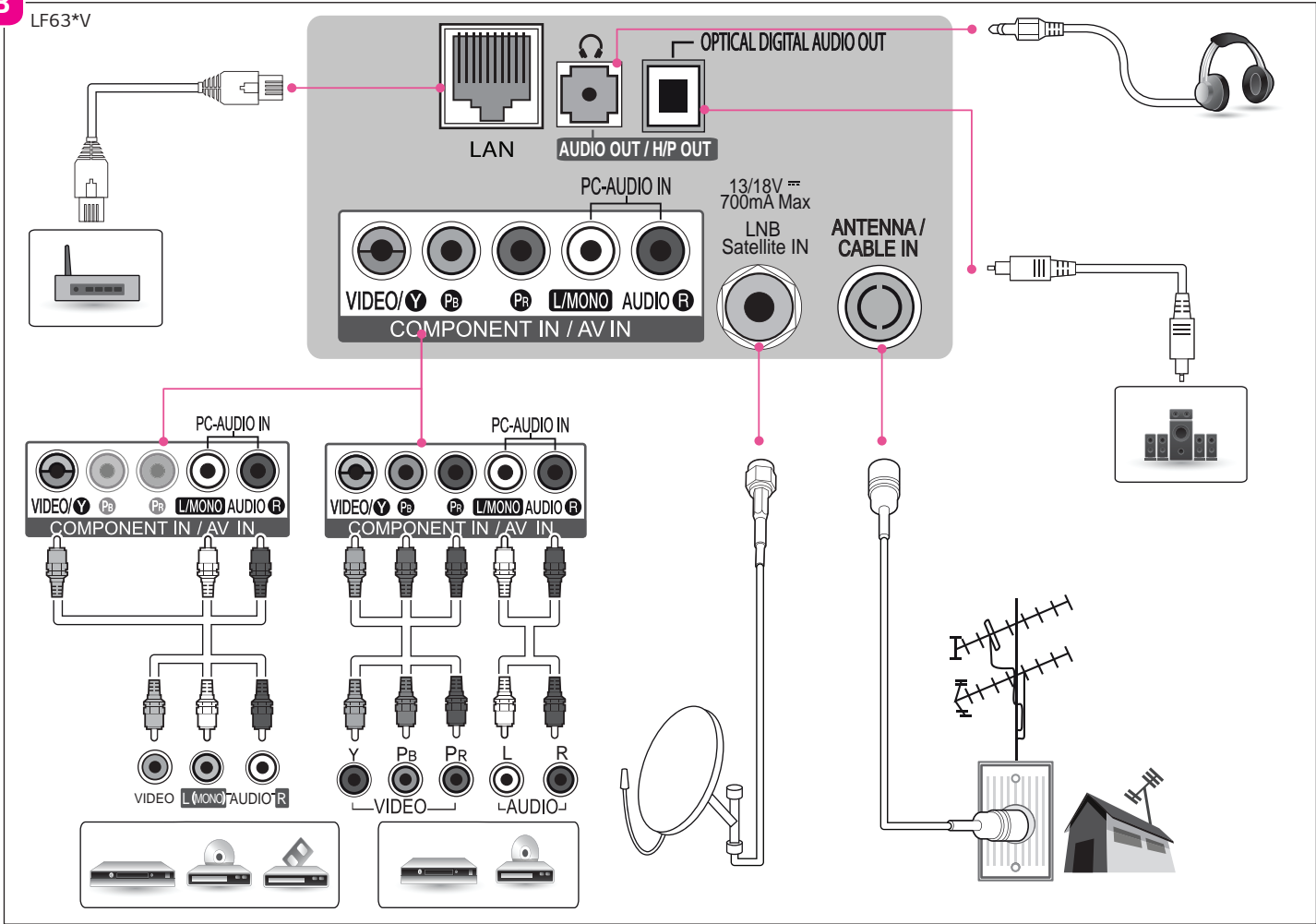


B LF63*0, LF63*T, LF63*Y

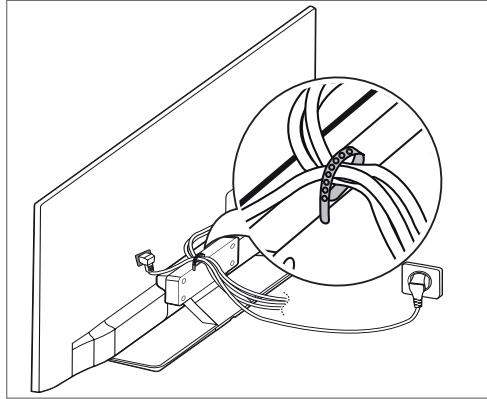


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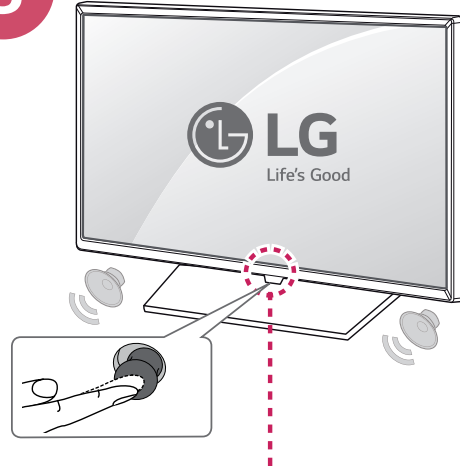
LF63*V



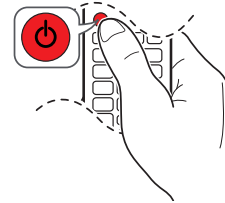
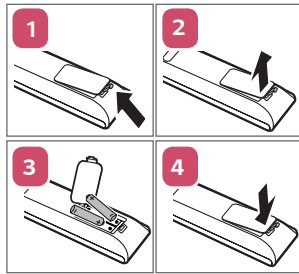
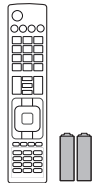
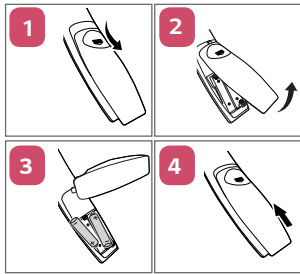
3

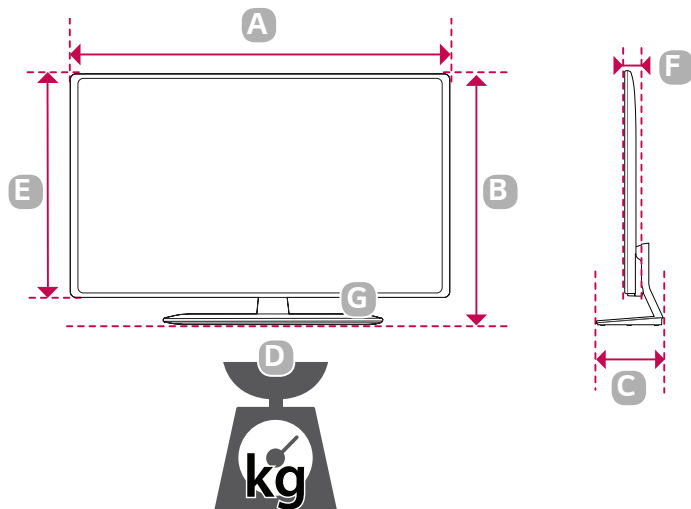


5



4





	32LF6300-TA 32LF630T-TA 32LF630Y-TA 32LF630V-TA 32LF631V-TB 32LF6310-TB 32LF632T-TA	40LF6300-TA 40LF630T-TA 40LF630Y-TA 40LF630V-TA 40LF631V-TB 40LF6310-TB 40LF632T-TA	43LF6300-TA 43LF630T-TA 43LF630Y-TA 43LF630V-TA 43LF631V-TB 43LF6310-TB 43LF632T-TA	49LF6300-TA 49LF630T-TA 49LF630Y-TA 49LF630V-TA 49LF631V-TB 49LF6310-TB 49LF632T-TA	55LF6300-TA 55LF630T-TA 55LF630Y-TA 55LF630V-TA 55LF631V-TB 55LF6310-TB 55LF632T-TA	60LF6300-TA 60LF630T-TA 60LF630Y-TA 60LF630V-TA 60LF631V-TB 60LF6310-TB 60LF632T-TA	65LF6300-TA 65LF630T-TA 65LF630Y-TA 65LF630V-TA 65LF631V-TB 65LF6310-TB 65LF632T-TA
A x B x C (mm)	734 x 483 x 154	911 x 581 x 189	973 x 625 x 193	1106 x 697 x 220	1242 x 774 x 220	1363 x 844 x 294	1461 x 899 x 294
A x E x F (mm)	734 x 438 x 55.3	911 x 528 x 55.3	973 x 573 x 37	1106 x 647 x 37	1242 x 724 x 37	1363 x 792 x 39	1461 x 848 x 39
D (kg)	6.1	9.6	12.7	17.6	20.9	29.3	34
D - G (kg)	5.3	7.5	10.2	14.4	17.7	24.1	28.8

Power requirement / Alimentation / Requisito de alimentação / متطلبات الطاقة

AC 100 - 240 V ~ 50 / 60 Hz
تيار متردد 100 - 240 فولت ~ 50 / 60 هرتز



OWNER'S MANUAL

Safety and Reference

LED TV*

* Disclaimer

LG LED TV applies LCD screen with LED backlights.

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



www.lg.com

P/NO : MFL68702222 (1507-REV03)

Printed in Korea

India region only. (Below sentence is not applicable for above 1920 X 1080 resolution TV models.)

ATTENTION:

This product is qualified for the BEE Star rating in the 'Home' Mode.

The Objectives of Star Labeling Program is designed to promote energy efficient products and practices.

When the television is initially set up, it is designed to meet the BEE Star Labeling requirements while maintaining optimum picture quality.

- Changes to certain functionalities of this television (TV Guide, Picture/sound etc) may change the power consumption.
- Depending upon such changed setting (eg., Retail mode), the power consumption may vary which possibly could exceed the stated energy consumption.

To reset the television to Star rating qualified settings, select 'Home' mode from the initial set-up procedure in 'factory settings' under the 'Set-up' menu.

Safety instructions

Please read these safety precautions carefully before using the product.

! WARNING



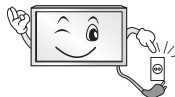
Do not place the TV and/or remote control in the following environments:

- A location exposed to direct sunlight
- An area with high humidity such as a bathroom
- Near any heat source such as stoves and other devices that produce heat
- Near kitchen counters or humidifiers where they can easily be exposed to steam or oil
- An area exposed to rain or wind
- Near containers of water such as vases

Otherwise, this may result in fire, electric shock, malfunction or product deformation.



Do not place the product where it might be exposed to dust. This may cause a fire hazard.



Mains Plug is the TV connecting/disconnecting device to AC mains electric supply. This plug must remain readily attached and operable when TV is in use.



Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off. You may be electrocuted due to excess moisture.



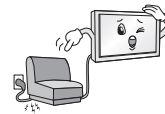
Make sure to connect Mains cable to compliant AC mains socket with Grounded earth pin. (Except for devices which are not grounded on earth.) Otherwise possibility you may be electrocuted or injured.



Insert power cable plug completely into wall socket otherwise if not secured completely into socket, fire ignition may break out.



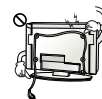
Ensure the power cord does not come into contact with hot objects such as a heater. This may cause a fire or an electric shock hazard.



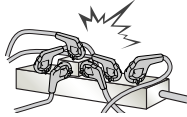
Do not place a heavy object, or the product itself, on power cables. Otherwise, this may result in fire or electric shock.



Bend antenna cable between inside and outside building to prevent rain from flowing in. This may cause water damaged inside the Product and could give an electric shock.



When mounting TV onto wall make sure to neatly install and isolate cabling from rear of TV as to not create possibility of electric shock / fire hazard.



Do not plug too many electrical devices into a single multiple electrical outlet. Otherwise, this may result in fire due to over-heating.



Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.



Keep the anti-moisture packing material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.



Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.



Dispose of used batteries carefully to ensure that a small child does not consume them. Please seek Doctor- Medical Attention immediately if child consumes batteries.



Do not insert any metal objects/conductors (like a metal chopstick/ cutlery/screwdriver) between power cable plug and input Wall Socket while it is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal. You may be electrocuted. (Depending on model)



Do not put or store inflammable substances near the product. There is a danger of combustion/explosion or fire due to careless handling of the inflammable substances.



Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention. Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service centre.



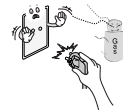
Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur.



Do not allow any impact, shock or any objects to fall into the unit, and do not drop anything onto the screen. You may be injured or the product can be damaged.



Never touch this product or antenna during a thunder or lightning storm. You may be electrocuted.



Never touch the wall outlet when there is leakage of gas, open the windows and ventilate. It may cause a fire or a burn by a spark.



Do not disassemble, repair or modify the product at your own discretion. Fire or electric shock accident can occur. Contact the service centre for check, calibration or repair.



If any of the following occur, unplug the product immediately and contact your local service centre.

- The product has been impacted by shock
- The product has been damaged
- Foreign objects have entered the product
- The product produced smoke or a strange smell

This may result in fire or electric shock.



Unplug the TV from AC mains wall socket if you do not intend to use the TV for a long period of time. Accumulated dust can cause fire hazard and insulation deterioration can cause electric leakage/shock/fire.

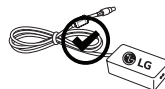


Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

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 water enters or comes into contact with TV, AC adapter or power cord please disconnect the power cord and contact service centre immediately. Otherwise, this may result in electric shock or fire.



Only use an authorized AC adapter and power cord approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction or product deformation.



Never Disassemble the AC adapter or power cord. This may result in fire or electric shock.



Be careful in handling the adapter to prevent any external shocks to it. An external shock may cause damage to the adapter.

CAUTION



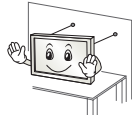
Install the product where no radio wave occurs.



There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls. This may cause an electric shock.



Do not install the product on places such as unstable shelves or inclined surfaces. Also avoid places where there is vibration or where the product cannot be fully supported. Otherwise, the product may fall or flip over, which may cause injury or damage to the product.



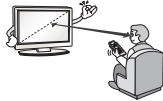
If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.

If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.

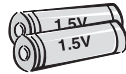
Only use the attachments / accessories specified by the manufacturer.



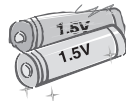
When installing the antenna, consult with a qualified service technician. If not installed by a qualified technician, this may create a fire hazard or an electric shock hazard.



We recommend that you maintain a distance of at least 2 to 7 times the diagonal screen size when watching TV. If you watch TV for a long period of time, this may cause blurred vision.



Only use the specified type of battery. This could cause damage to the remote control.



Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.

Batteries should not be exposed to excessive heat. For example, keep away from direct Sunlight, open fireplace and electric heaters.

Do not place non-rechargeable batteries in charging device.



Make sure there are no objects between the remote control and its sensor.



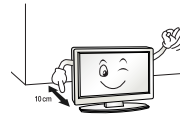
Signal from Remote Control can be interrupted due to external/internal lighting eg Sunlight, fluorescent lighting. If this occurs turn off lighting or darken viewing area.



When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.



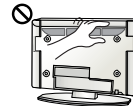
Do not turn the product On/Off by plugging-in or unplugging the power plug to the wall outlet. (Do not use the power plug for switch.) It may cause mechanical failure or could give an electric shock.



Please follow the installation instructions below to prevent the product from overheating.

- The distance between the product and the wall should be more than 10 cm.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a cupboard).
- Do not install the product on a carpet or cushion.
- Make sure the air vent is not blocked by a tablecloth or curtain.

Otherwise, this may result in fire.



Take care not to touch the ventilation openings when watching the TV for long periods as the ventilation openings may become hot. This does not affect the operation or performance of the product.

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 servicer.



Prevent dust collecting on the power plug pins or outlet. This may cause a fire hazard.



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 press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it, as it may cause damage to screen.

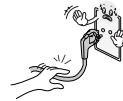


Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary or permanent distortion/damage to screen.



When cleaning the product and its components, unplug the power first and wipe it with a soft cloth. Applying excessive force may cause scratches or discolouration. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, car or industrial shiner, abrasives or wax, benzene, alcohol etc., which can damage the product and its panel. Otherwise, this may result in fire, electric shock or product damage (deformation, corrosion or breakage).

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by SWITCH.



When unplugging the cable, grab the plug and unplug it, by pulling at the plug.

Don't pull at the cord to unplug the power cord from the power board, as this could be hazardous.



When moving the product, make sure you turn the power off first. Then, unplug the power cables, antenna cables and all connecting cables. The TV set or power cord may be damaged, which may create a fire hazard or cause electric shock.



When moving or unpacking the product, work in pairs because the product is heavy. Otherwise, this may result in injury.



Contact the service centre once a year to clean the internal parts of the product.

Accumulated dust can cause mechanical failure.



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.



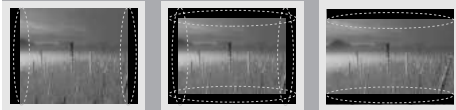
If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.



The panel is a high technology display product with resolution of two million to eight million pixels. You may see tiny black dots and/or brightly coloured dots (red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.



You may find different brightness and colour of the panel depending on your viewing position (left/right/top/down). This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction.



Displaying a still image (e.g., broadcasting channel logo, on-screen menu, scene from a video game) for a prolonged time may cause damage to the screen, resulting in retention of the image, which is known as image sticking. The warranty does not cover the product for image sticking.

Avoid displaying a fixed image on your television's screen for a prolonged period (2 or more hours for LCD, 1 or more hours for Plasma). Also, if you watch the TV at a ratio of 4:3 for a long time, image sticking may occur on the borders of the panel.

This phenomenon also occurs in third-party products and is not subject to exchange or refund.

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.

Do not use high voltage electrical goods near the TV (e.g. electric mosquito-swatter). This may result in product malfunction.

Viewing 3D imaging (Only 3D models)

⚠ WARNING

Viewing environment

- Viewing Time
 - When watching 3D contents, take 5 - 15 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 that 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 react with sensitivity due to stimulation from light in 3D contents. Advise them to refrain from watching 3D contents for a long time when they are tired.
- Elderly
 - The elderly may perceive less 3D effect compared to the young. Do not sit closer to the TV than the recommended distance.

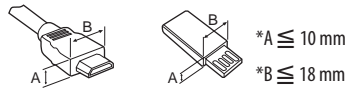
Cautions when using the 3D glasses

- 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.

Preparing

NOTE

- If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take a few minutes.
- 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 TV can be placed in standby mode in order to reduce the power consumption. And the TV should be turned off if it will not be watched for some time, as this will reduce energy consumption.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.
- 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.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports USB 2.0 if the USB cable or USB memory stick 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)
 - High-Speed HDMI™ Cable (3m or less)
 - High-Speed HDMI™ Cable with Ethernet (3m or less)

CAUTION

- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the manufacturer's warranty.
- Some models have a thin film attached on to the screen and this must not be removed.
- 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 completely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.

Separate purchase

Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buy these items. These devices only work with certain models. The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

(Depending on model)

AG-F*** Cinema 3D Glasses	AN-MR600 Magic Remote	AN-VC550 Smart Camera
AG-F***DP Dual Play Glasses	LG Audio Device	AN-WF500 Wi-Fi/Bluetooth Dongle

* Some models require Wi-Fi/Bluetooth Dongle for using Magic Remote or LG Audio Device.

* Supporting device of Wi-Fi/Bluetooth Dongle is a different in accordance with model.

Maintenance

Cleaning your TV

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

- 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, 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.

- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not push, rub, or hit the screen surface with your fingernail or a sharp object, as this may result in scratches and image distortions.
- Do not use any chemicals as this may damage the product.
- 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.

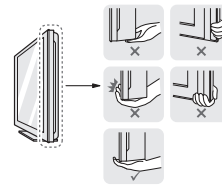
Lifting and moving the TV

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

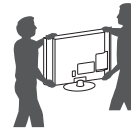
- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.



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



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



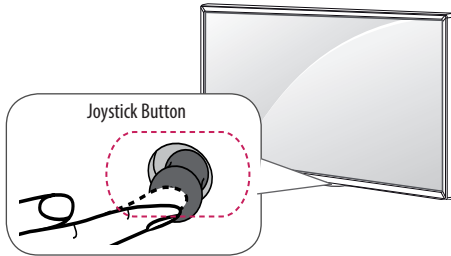
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.
- Do not apply excessive pressure to cause flexing /bending of frame chassis as it may damage screen.
- When 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 move the TV by holding the cable holders, as the cable holders may break, and injuries and damage to the TV may occur.

Using the joystick button

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



Basic functions

	Power On	When the TV is turned off, place your finger on the joystick button and press it once and release it.
	Power Off	When the TV is turned on, place your finger on the joystick button and press it once for a few seconds and release it. All running apps will close, and any recording in progress will stop.
	Volume Control	If you place your finger over the joystick button and move it left or right, you can adjust the volume level you want.
	Programmes Control	If you place your finger over the joystick button and move it up or down, you can scrolls through the saved programmes you want.

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.
	Clears on-screen displays and returns to TV viewing.
	Changes the input source.
	Accesses the Quick Settings.

NOTE

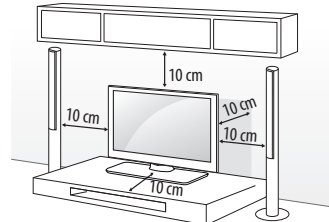
- When your finger over the joystick button and push it to the up, down, left or right, be careful not to press the joystick button. If you press the joystick button first, you may not be able to adjust the volume level and saved programmes.

Mounting on a table

(Image shown may differ from your TV.)

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

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



2 Connect the power cord to a wall outlet.

CAUTION

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

WARNING

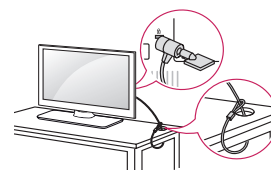
- If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
 - Using cabinets or stands recommended by the manufacturer of the television.
 - Only using furniture that can safely support the television.
 - Ensuring the television is not overhanging the edge of the supporting furniture.
 - Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
 - Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
 - Educating children about the dangers of climbing on furniture to reach the television or its controls.

Using the kensington security system

(This feature is not available for all models.)

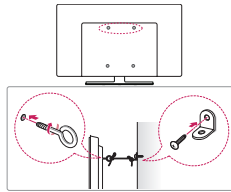
- Image shown may differ from your TV.

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



Securing the TV to a wall

(This feature is not available for all models.)



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

⚠ CAUTION

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

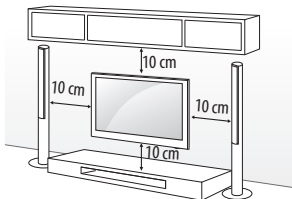
! NOTE

- Use a platform or cabinet that is strong and large enough to support the TV securely.
- Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.

Mounting on a wall

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

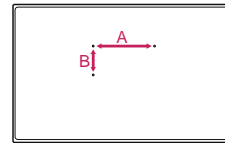
We recommend the use of LG's wall mount bracket. LG's wall mount bracket is easy to move with cables connected. When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. It is advised to connect all the cables before installing fixed wall mounts.



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

Separate purchase(Wall mounting bracket)

Model	32/43LF59** 32/40/43LF63** 32LF65**	49LF59** 49/55LF63**
VESA (mm) (A x B)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW240B MSW240	LSW350B MSW240
Model	60/65LF63**	55LF59** 42/50/55LF65**
VESA (mm) (A x B)	300 x 300	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW350B	LSW440B MSW240
Model	60/65LF65**	70LF65**
VESA (mm) (A x B)	400 x 400	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket	LSW440B	LSW640B



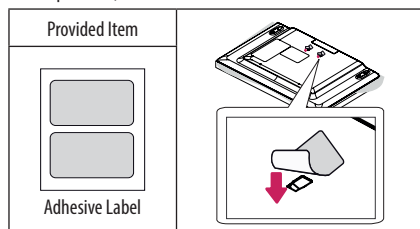
⚠ CAUTION

- Disconnect the power first, and then move or install 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 authorised 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 manufacturer's warranty.

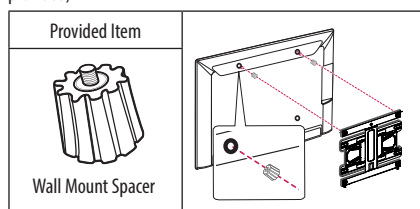
! NOTE

- 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 not provided. 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.
- When installing the wall mounting bracket, use the Adhesive Label. The Adhesive Label will protect the opening from accumulating dust and dirt. (Only when the item of the following form is provided)



- When attaching a wall mounting bracket to the TV, insert the wall mount spacers into the TV wall mount holes to adjust the vertical angle of the TV. (Only when the item of the following form is provided)



Connections (notifications)

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

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

! NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- 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.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- 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.
- In PC mode, some resolution settings may not work properly depending on the graphics card.

Antenna connection

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

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.
- Supported DTV Audio: MPEG, Dolby Digital, Dolby Digital Plus, HE-AAC

Satellite dish connection

(Only satellite models)

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

CI module connection

(Depending on model)

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

- Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.
- If the TV does not display any video and audio when CI+ CAM is connected, please contact to the Terrestrial/Cable/Satellite Service Operator.

USB connection

(Depending on model)

Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the TV.

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. Some separate cable is not provided.

! NOTE

- Supported HDMI Audio format :
Dolby Digital (32 kHz, 44.1 kHz, 48 kHz),
DTS (44.1 kHz, 48 kHz),
PCM (32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz)
(Depending on model)

Remote control

(Depending on model)

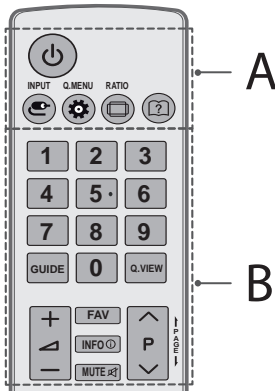
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly.

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

CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- In Analogue TV and some countries, some remote control buttons may not work.
- The remote control will not be included for all sales market.

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



A

- POWER** Turns the TV on or off.
- INPUT** Changes the input source.
- Q. MENU** Accesses the Quick Settings.
- RATIO** Resizes an image.
- (User Guide)** Sees user-guide.

B

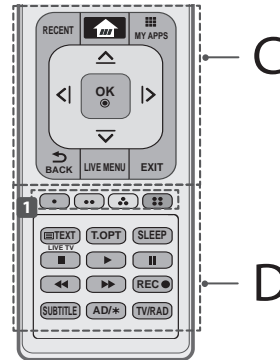
- Number buttons** Enters numbers.
- GUIDE** Shows programme guide.
- Q.VIEW** Returns to the previously viewed programme.
- + / -** Adjusts the volume level.
- FAV** Accesses your favourite programme list.

INFO Views the information of the current programme and screen.

MUTE Mutes all sounds.

^ P v Scrolls through the saved programmes.

← PAGE → Moves to the previous or next screen.



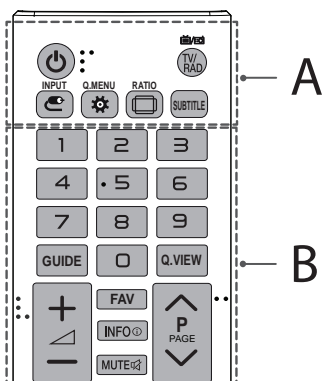
C

- RECENT** Shows the previous history.
- (HOME)** Accesses the Home menu.
- MY APPS** Shows the list of Apps.
- Navigation buttons (up/down/left/right)** Scrolls through menus or options.
- OK** Selects menus or options and confirms your input.
- BACK** Returns to the previous level.
- LIVE MENU** Shows the list of Programmes, Search and Recorded.
- EXIT** Clears on-screen displays and returns to TV viewing.

D

- Coloured buttons** These access special functions in some menus.
(●): Red, (●●): Green, (●●●): Yellow, (●●●●): Blue
- TELETEXT buttons (TEXT, T.OPT)** These buttons are used for teletext.
- LIVE TV** Returns to LIVE TV.
- SLEEP** Sets the length of time until the TV to turn off.
- Control buttons (■, ▶, II, ◀, ▶▶)** Controls the Premium contents, Time Machine or SmartShare menus or the SIMPLINK compatible devices (USB or SIMPLINK or Time Machine).
- REC** Starts to record and displays record menu.
- SUBTITLE** Recalls your preferred subtitle in digital mode.
- AD/*** By Pressing AD button, audio descriptions function will be enabled. (Depending on model)
- TV/RAD** Selects Radio, TV and DTV programme.

(Depending on model)



A

(POWER) Turns the TV on or off.

TV/RAD Selects Radio, TV and DTV programme.

INPUT Changes the input source.

Q. MENU Accesses the quick settings.

RATIO Resizes an image.

SUBTITLE Recalls your preferred subtitle in digital mode.

B

Number buttons Enters numbers.

GUIDE Shows programme guide.

Q.VIEW Returns to the previously viewed programme.

+ / - Adjusts the volume level.

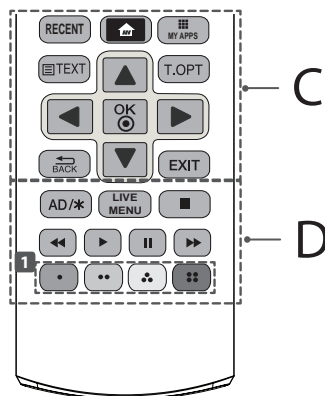
FAV Accesses your favourite programme list.

INFO Views the information of the current programme and screen.

MUTE Mutes all sounds.

^ P v Scrolls through the saved programmes.

^ PAGE v Moves to the previous or next screen.



C

RECENT Shows the previous history.

(HOME) Accesses the Home menu.

MY APPS Shows the list of Apps.

TELETEXT buttons (TEXT, T.OPT) These buttons are used for teletext.

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

OK Selects menus or options and confirms your input.

BACK Returns to the previous level.

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

D

AD/* By Pressing AD button, audio descriptions function will be enabled. (Depending on model)

LIVE MENU Shows the list of Programmes, Search and Recorded.

Control buttons Controls the Premium contents, Time Machine or SmartShare menus or the SIMPLINK compatible devices (USB or SIMPLINK or Time Machine).

Coloured buttons These access special functions in some menus.

(Red, Green, Yellow, Blue)

ENGLISH

Magic remote functions

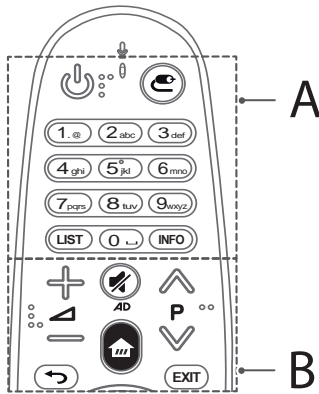
(Depending on model)

When the message "Magic remote battery is low. Change the battery." is displayed, replace the battery.

To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the magic remote toward the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse.

CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- In Analogue TV and some countries, some remote control buttons may not work.



A

⏻ (POWER) Turns the TV on or off.

📺 (INPUT) Changes the input source.

* Pressing and holding the **📺** button displays all the lists of external inputs.

Number buttons Enters numbers.

LIST Accesses the saved programme list.

INFO Views the information of the current programmes and screen.

B

⏮ ⏪ ⏩ ⏭ Adjusts the volume level.

⏮ P ⏭ Scrolls through the saved programmes.

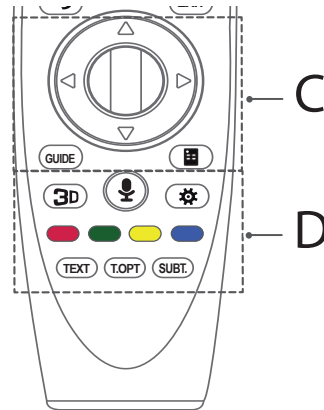
🔇 (MUTE) Mutes all sounds.

* By pressing and holding the **🔇** button, audio descriptions function will be enabled. (Depending on model)

🏠 (HOME) Accesses the Home menu.

⏪ (BACK) Returns to the previous level.

EXIT Clears 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 programmes by using the wheel button.

⬆ ⬇ ⬅ ➡ **Navigation buttons** (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.

GUIDE Shows programmes guide.

📺 (Screen Remote) Displays the Screen Remote.

*Accesses the Universal Control Menu. (Depending on model)

D

3D Used for viewing 3D video. (Depending on model)


(Voice recognition)

(Depending on model)

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 from your face.
 - The voice recognition may fail when you speak too fast or too slowly.
 - The recognition rate may vary depending on the user's characteristics (voice, pronunciation, intonation, and speed) and the environment (noise and TV volume).

Q (Quick Settings) Accesses the Quick Settings.

* Pressing and holding the  button displays the **Advanced** menu.

Coloured buttons These access special functions in some menus.

(: Red, : Green, : Yellow, : Blue)

TELETEXT buttons (TEXT, T.OPT) These buttons are used for teletext.


SUBT. Recalls your preferred subtitle in digital mode.

Registering magic remote

How to register the magic remote

To use the Magic Remote, first pair it with your TV.

1 Put batteries into the Magic Remote and turn the TV on.

2 Point the Magic Remote at your TV and press the  **Wheel (OK)** on the remote control.

* If the TV fails to register the Magic Remote, try again after turning the TV off and back on.





How to deregister the magic remote

Press the  **(BACK)** and  **(HOME)** buttons 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.

How to use magic remote



- Shake the Magic Remote slightly to the right and left or press  **(HOME)**,  **(INPUT)**,  **3D** buttons to make the pointer appear on the screen.
(In some TV models, the pointer will appear when you turn the  **Wheel (OK)** button.)
- 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.
- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- The Magic Remote depletes batteries faster than a normal remote due to the additional features.

Precautions to take when using the magic remote

- Use the remote control within the specified range (within 10 m). 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 on 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 meter of the TV.
Your wireless router should be more than 1 m 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.lg.com.



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. This offer is valid for three (3) years from the date on which you purchased the product.

(Australia region only)

FreeviewPlus provides access to content and services from the Freeview networks. The FreeviewPlus service provides a 7 + day EPG, all available Catch Up TV, recommendations and the ability to set reminders and favourites. FreeviewPlus is available by pressing the green button on the remote.

*FreeviewPlus uses HbbTV technology which combines broadcast and broadband. It requires an internet connection. Normal data usage charges and conditions apply.

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 **Automatic Standby**(Depending on model) / **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.

When connecting to the PC (HDMI/DVI), 'No signal' or 'Invalid Format' is displayed.

- Turn the TV off/on using the remote control.
- Reconnect the HDMI cable.
- Restart the PC with the TV on.

Specifications

Wireless module

- 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.
- This device should be installed and operated with minimum distance 20 cm between the device and your body. And this phrase is for the general statement for consideration of user environment.



(Only LF63**, LF65**)

Wireless module (LGSBW41) Specification			
Wireless LAN		Bluetooth	
Standard	IEEE802.11a/b/g/n	Standard	Bluetooth Version 4.0
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz (for Non EU)	Frequency Range	2400 to 2483.5 MHz
Output Power (Max.)	802.11a: 13 dBm 802.11b: 15 dBm 802.11g: 14 dBm 802.11n - 2.4GHz: 16 dBm 802.11n - 5 GHz: 16 dBm	Output Power (Max.)	10 dBm or Lower

(Only LF59**)

Wireless LAN module(TWFM-B006D) specification	
Standard	IEEE802.11a/b/g/n
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz (for Non EU)
Output Power (Max.)	802.11a: 11 dBm 802.11b: 14 dBm 802.11g: 10.5 dBm 802.11n - 2.4 GHz: 11 dBm 802.11n - 5 GHz: 12.5 dBm

CI Module Size¹ (W x H x D)		100.0 mm x 55.0 mm x 5.0 mm
Environment condition	Operating Temperature	0 °C to 40 °C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	Less than 85 %

1 Only Satellite models.

	Digital TV (Depending on Country)	Analogue TV (Depending on Country)
Television system	DVB-T ³ DVB-T/T2 ¹ DVB-T/T2/C/S/S2 ²	PAL B/B, PAL B/G, PAL D/K, PAL-I SECAM B/G, SECAM D/K NTSC-M
Programme coverage	VHF, UHF C-Band ² , Ku-Band ²	VHF, UHF, CATV
Maximum number of storable programmes	DVB-T/T2 & Analogue TV : 1,500 DVB-S/S2 : 6,000	
External antenna impedance	75 Ω	

1 Only DVB-T2 support models.

2 Only DVB-T2/C/S2 support models.

3 Despite DVB-T model, DVB-T function does not apply in India and Philippines.

Environmental information

(India region only)

Disposal of your old appliance (as per e-waste Rules)



1. When this crossed out wheeled bin symbol is depicted on the product and its operator's manual, it means the product is covered by the e-waste Management and Handling Rules, 2011 and are meant to be recycled, dismantled, refurbished or disposed off.

2. Dos

- The product is required to be handed over only to the authorized recycler for disposal.
- Keep the product in isolated area, after it becomes non-functional/un-repairable so as to prevent its accidental breakage.

Don't

- The product should not be opened by the user himself/herself, but only by authorized service personnel.
 - The product is not meant for re-sale to any unauthorized agencies/scrap dealer/kabariwala.
 - The product is not meant for mixing into household waste stream.
 - Do not keep any replaced spare part(s) from the product in exposed area.
3. Any disposal through unauthorized agencies/person will attract action under Environment (Protection) Act 1986.
4. Hazards of improper handling or accidental breakage:
- All picture tubes are hazardous due to concentration of lead, cadmium and zinc in it. The various chemicals and heavy metals contained in picture tubes cause cancer, birth defects, hormone disruption, and damage body organs when they leak into the environment. All of this can, and does, leach into the soil, ground water, air and our own bodies. To prevent possible injury in case of breakage, wear heavy protective clothing, including gloves & safety goggles.
 - If batteries are disposed incorrectly, it can greatly harm the environment. The chemical by-products are hazardous. The metals and chemicals found in batteries can mix into soil which may be hazardous to humans, plants and animals. If thrown in fire, they can cause blast and release toxic gases which may be harmful for health.
5. To locate a nearest collection centre or call for pick-up (limited area only) for disposal of this appliance, please contact Toll Free No. 1800-180-9999 for details. All collection centre and pick up facilities are done by third parties with LG Electronics India Pvt. Ltd. merely as a facilitator. For more detailed information, please visit : <http://www.lge.com/in>

पर्यावरणीय जानकारी

आपके पुराने घरेलू उपकरण का निपटान (ई-अपशिष्ट निपटान नियमावली के अनुसार)



1. जब यह काटे गये पहिये वाले बिन का चिह्न किसी उत्पाद और इसके प्रचालक पुस्तिका के साथ संलग्न होता है, तो इसका अर्थ है, उत्पाद ई-अपशिष्ट (प्रबंधन और हथालन) नियम २०११ के अन्तर्गत, सम्मिलित किया गया है। इस नियम के अनुसार उत्पाद को पुनः नवीनीकरण, ध्वस्त या निपटाना चाहिए।

2. इसे करें

- उत्पाद को केवल अधिकृत पुनः नवीनीकरणकर्ता को निपटान हेतु हस्तान्तरित करें।
- उत्पाद कार्यात्मक ना रहे तो, उत्पाद को पृथक क्षेत्र में रखें, जिससे उत्पाद आकस्मिक क्षति से बच सके।

इसे न करें

- उत्पाद को उपभोक्ता स्वयं नहीं खोलें, बल्कि अधिकृत सेवा कर्मचारी द्वारा खुलवायें।
 - उत्पाद को किसी अनधिकृत एजेंसी/पुराने सामान के डीलर/कबाड़ी वाले को फिर से न दें।
 - उत्पाद को घरेलू अपशिष्ट धारा के साथ न मिलाएँ।
 - उत्पाद के बदले हुए या अतिरिक्त पूर्णों को खुली जगह में न रखें।
3. उत्पाद को किसी भी अनधिकृत एजेंसी/व्यक्ति द्वारा निपटान कराने पर, पर्यावरण (संरक्षण) अधिनियम १९८६, के तहत कार्यवाही हो सकती है।
4. गलत ढंग से रखरखाव या आकस्मिक टूट-भूट के खतरे :
- लीड, कैडमियम व जिंक की मौजूदगी के कारण सभी पिक्चर ट्यूब खतरनाक होती है। पिक्चर ट्यूब में विभिन्न रसायनों तथा भारी धातुओं की मौजूदगी के कारण वातावरण में इनके रिसाव से कैंसर, जन्म दोष, हार्मोन विघटन, और शरीर के अंगों को नुकसान हो सकता है। ये सभी रसायन मिट्टी में, भू-गर्म जल में, हवा में घूल कर हमारे शरीर में प्रवेश कर सकते हैं।
 - यदि बैटरियों का गलत ढंग से निपटान किया जाता है, तो इससे पर्यावरण को काफी अधिक नुकसान हो सकता है। रासायनिक उप-उत्पाद खतरनाक होते हैं। बैटरियों में पाए जाने वाली धातुएँ व रसायन मिट्टी में मिल सकते हैं जोकि मनुष्यों, पेड़-पौधों तथा जानवरों के लिए खतरनाक हो सकते हैं। यदि आग में फंके जाते हैं, तो वे विस्फोट कर सकते हैं तथा जहरीली गैसों को छोड़ सकते हैं जोकि स्वास्थ्य के लिए हानिकारक हो सकती हैं।
5. इस उत्पाद के निपटारण हेतु या फिर नजदीकी संग्रह केन्द्र का पता लगाने के लिए, कृपया टोल फ्री नम्बर १८००-१८०-९९९९ (सीमित क्षेत्र में उपलब्ध) पर सम्पर्क करें। सभी संग्रह केन्द्र एवं पिक-अप सुविधाएं बाहरी एजेंसी द्वारा चलायी जाती हैं। LG Electronics India Pvt. Ltd. सिर्फ सुविधा प्रदान कराने का माध्यम है। अधिक जानकारी के लिए वेबसाइट देखें: <http://www.lge.com/in>







Record the model number and serial number of the TV.
Refer to the label on the back cover and quote this
information to your dealer when requiring any service.

MODEL _____

SERIAL _____

(Only DTV)





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	∧ (Arrow Key / Cursor Up)	R/C Button	BB	Soccer	R/C Button
41	∨ (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	9B	TV/PC	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.

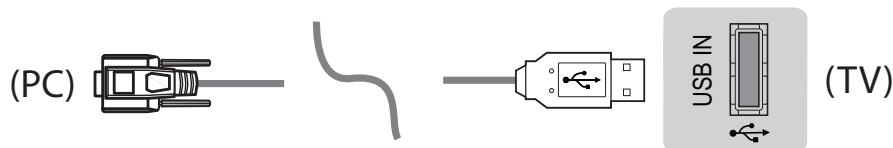
Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

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.

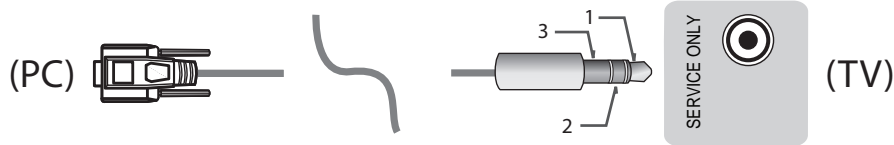


The connection interface may differ from your TV.

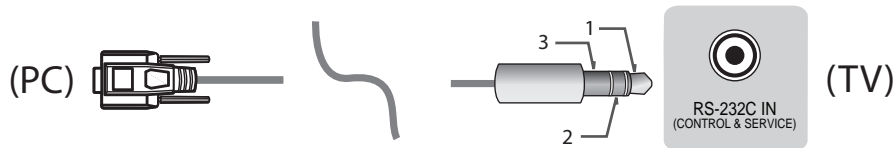
ENGLISH

Phone jack Type

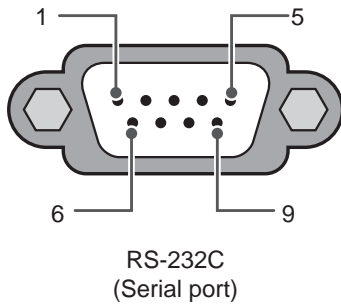
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- * For other models, connect to the USB port.
- * The connection interface may differ from your TV.



- or

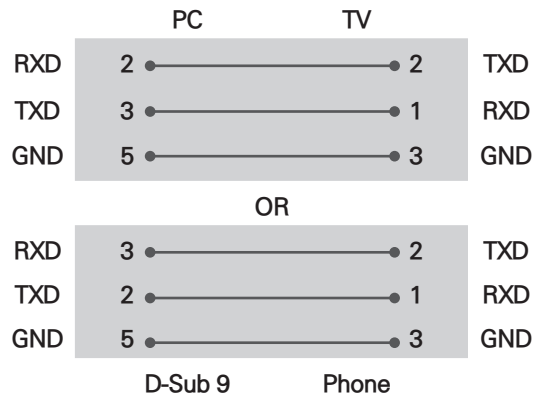


Customer Computer



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

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

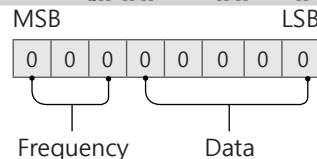
20: Color(Colour) Wash

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	1	0	0	1	1	19(decimal)

1	0	0	5th Band	1	0	1	0	0	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 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]
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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 : Run Auto Configure

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