



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

43UT570H0UA

49UT570H0UA

55UT570H0UA

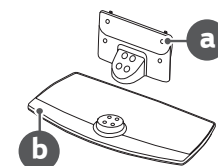
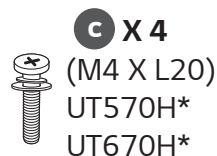
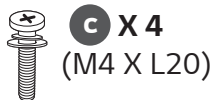
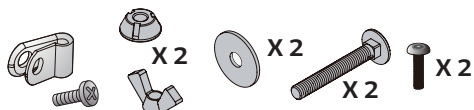
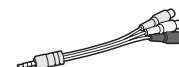
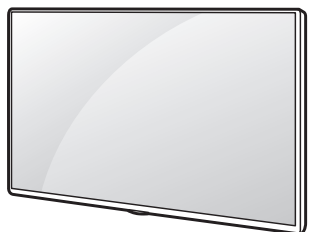
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49UT770H0UA

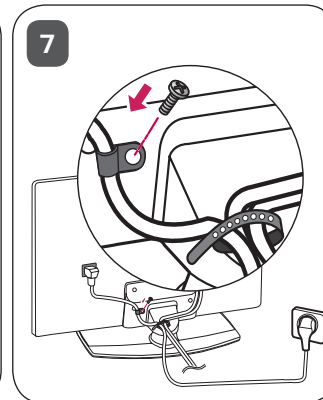
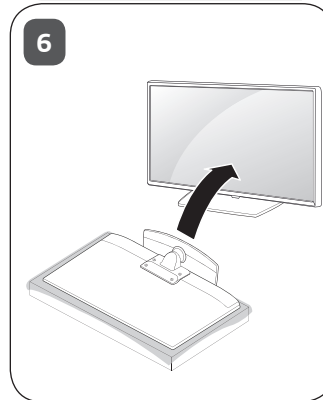
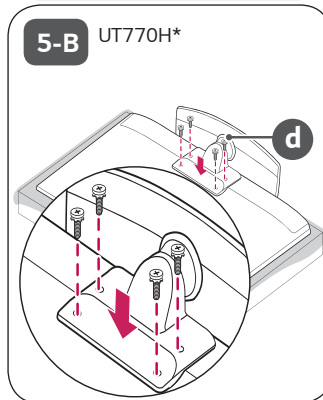
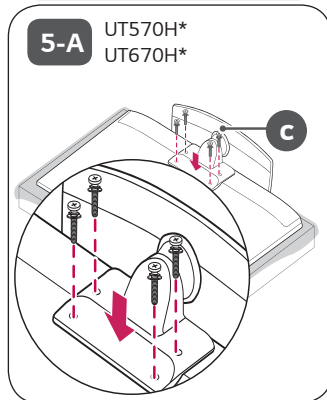
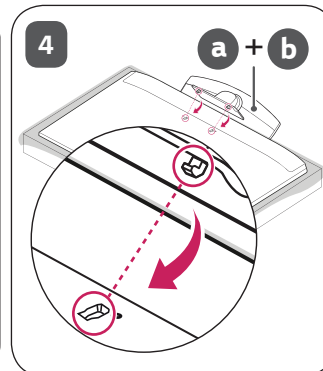
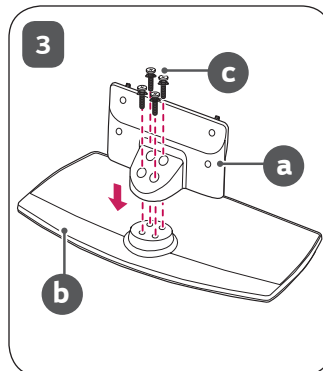
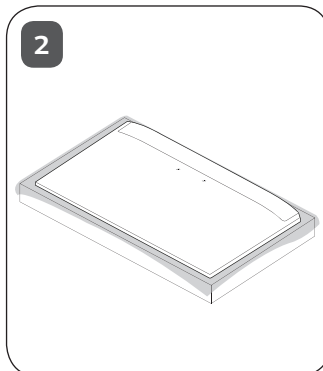
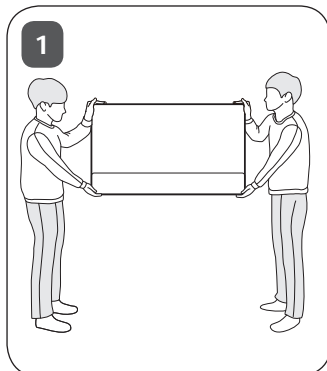
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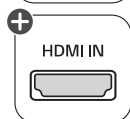
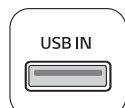
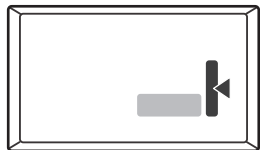


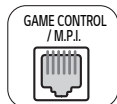
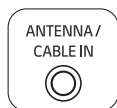
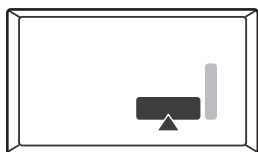
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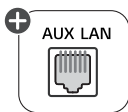
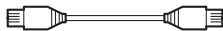
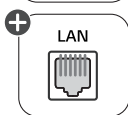
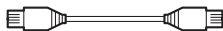
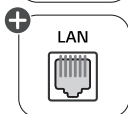
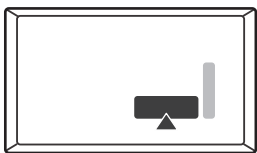
+ Depending upon model / Según el modelo / Selon le modèle

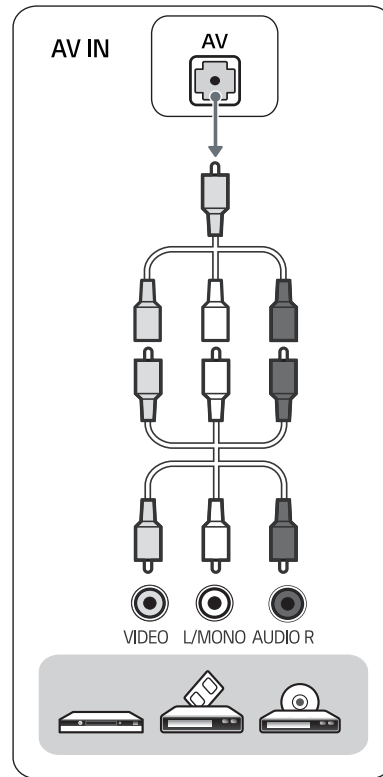
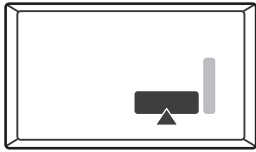
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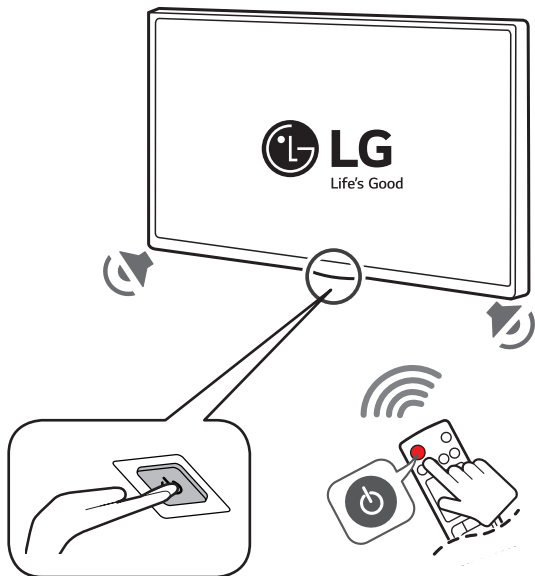
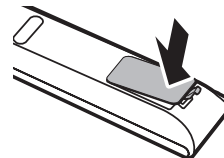
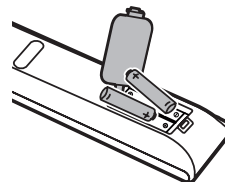
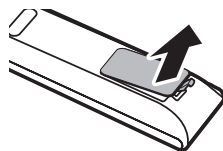
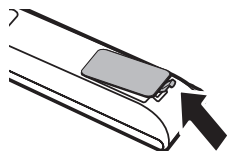
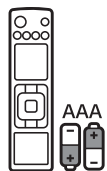
**ENGLISH**Read **Safety and Reference**.**WARNING** : To prevent injury, this apparatus must be securely attached to the desk/wall in accordance with the **Safety and Reference**.**ESPAÑOL**Leer **Seguridad y Consultas**.**ADVERTENCIA** : Para prevenir daños, este aparato debe ser instalado a la mesa/pared de acuerdo a la guía de **Seguridad y Consultas**.**FRANÇAIS**Lisez **Sécurité et références**.**AVERTISSEMENT** : Pour éviter les blessures, cet appareil doit être solidement fixé au bureau ou au mur, conformément aux directives du manuel **Sécurité et références**.

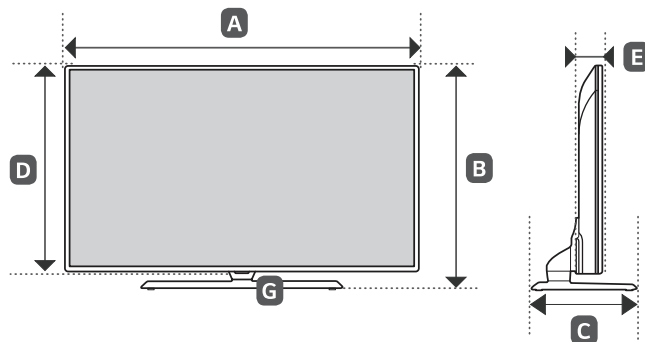












(lbs / libras / lb)

MODELS MODELOS MODÈLES	A		B		C		D		E		F		F - G		Power consumption Consumo de potencia Consommation électrique
	mm (inches / pulgadas / po)										kg (lbs / libras / lb)				
43UT570H0UA 43UT670H0UA	973 (38.3)	973 (38,3)	626 (24.6)	626 (24,6)	303 (11.9)	303 (11,9)	572 (22.5)	572 (22,5)	85.0 (3.3)	85,0 (3,3)	11.2 (24.6)	11,2 (24,6)	8.0 (17.6)	8,0 (17,6)	120 W
49UT570H0UA 49UT670H0UA	1,110 (43.7)	1 110 (43,7)	705 (27.7)	705 (27,7)	303 (11.9)	303 (11,9)	650 (25.5)	650 (25,5)	81.1 (3.1)	81,1 (3,1)	14.3 (31.5)	14,3 (31,5)	11.1 (24.4)	11,1 (24,4)	120 W
55UT570H0UA 55UT670H0UA	1,244 (48.9)	1 244 (48,9)	780 (30.7)	780 (30,7)	303 (11.9)	303 (11,9)	726 (28.5)	726 (28,5)	87.1 (3.4)	87,1 (3,4)	17.5 (38.5)	17,5 (38,5)	14.3 (31.5)	14,3 (31,5)	160 W
49UT770H0UA	1,096 (43.1)	1 096 (43,1)	697 (27.4)	697 (27,4)	303 (11.9)	303 (11,9)	640 (25.1)	640 (25,1)	63.6 (2.5)	63,6 (2,5)	17.2 (37.9)	17,2 (37,9)	14.0 (30.8)	14,0 (30,8)	135 W
55UT770H0UA	1,232 (48.5)	1 232 (48,5)	773 (30.4)	773 (30,4)	303 (11.9)	303 (11,9)	716 (28.1)	716 (28,1)	63.6 (2.5)	63,6 (2,5)	20.4 (44.9)	20,4 (44,9)	17.2 (37.9)	17,2 (37,9)	155 W
Power requirement / Alimentación requerida / Alimentation électrique											AC 120 V ~ 50 / 60 Hz				



OWNER'S MANUAL

Safety and Reference

LED TV*

* LG LED TV applies LCD screen with LED backlights.

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

43UT570H0UA	43UT670H0UA	49UT770H0UA
49UT570H0UA	49UT670H0UA	55UT770H0UA
55UT570H0UA	55UT670H0UA	65UT770H0UB
65UT570H0UB		75UT770H0UA



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(2006-REV04)

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Printed in Korea

Important Safety Instruction

- 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.



- 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.

Warning! Safety instructions



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



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

 The symbol 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 symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the device.

WARNING : TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- **Do not place the TV and/or remote control in the following environments:**
 - Keep the product away from 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.
 - 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).

- Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
 - Do not install in excessively dusty places.
- Otherwise, this may result in fire, electric shock, combustion/ explosion, malfunction or product deformation.

• Ventilation

- Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
- Do not install the product on a carpet or cushion.
- Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.
- 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 device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.
- Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.
- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.
- **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.
- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.

- **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
- **Grounding** (Except for devices which are not grounded.)
 - TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet. Ensure that you connect the earth ground wire to prevent possible electric shock.
 - Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.
 - Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.
 - Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
 - Do not touch the end of the power cord while it is plugged in. You may be electrocuted.
- **If any of the following occur, unplug the product immediately and contact your local customer service.**
 - The product has been damaged.
 - If water or another substance enters the product (like an AC adapter, power cord, or TV).
 - If you smell smoke or other odors coming from the TV.
 - When lightning storms or when unused for long periods of time.

Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.

 - Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
 - Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
 - Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
 - Never disassemble the AC adapter or power cord. This may result in fire or electric shock.
 - Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.
 - To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.
 - **Batteries**
 - Store the accessories (battery, etc.) in a safe location out of the reach of children.
 - Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
 - Caution: Risk of fire or explosion if the battery is replaced by an incorrect type.

- **Moving**

- When 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. Otherwise, this may result in product damage, fire hazard or injury.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- 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. It may cause damage to screen.

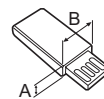
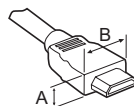
- **Cleaning**

- When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

Preparing

- When the TV is turned on for the first time after being shipped from the factory, initialization of the TV may take approximately one minute.
- 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 device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.
- 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)
 - Ultra High Speed HDMI®/™ cable (3 m (9.84 feet) or less)



- * $A \leq 10 \text{ mm}$
(0.39 inches)
- * $B \leq 18 \text{ mm}$
(0.7 inches)

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

Optional Extras

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

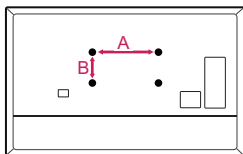
Magic Remote Control

AN-MR18HA

Check whether your TV model supports Bluetooth in the Wireless Module Specification to verify whether it can be used with the Magic Remote.

Wall Mounting Bracket

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	43UT570H0UA	49UT570H0UA
	43UT670H0UA	49UT670H0UA
	49UT770H0UA	55UT670H0UA
		55UT770H0UA
VESA (A x B)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW240B	OLW480B
	MSW240	MSW240
Model	65UT570H0UB	75UT770H0UA
	65UT770H0UB	
VESA (A x B)	300 x 300	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket (optional)	OLW480B	LSW640B

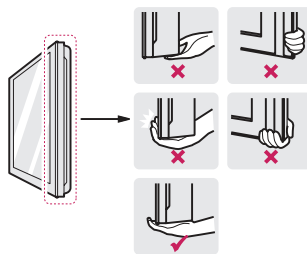
Lifting and Moving the TV

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.

- 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.

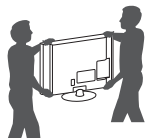


- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grille area.



- 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.



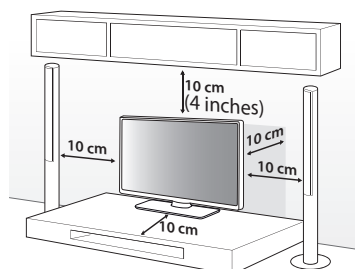
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.



- 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 holders, as the cable holders may break, and injuries and damage to the TV may occur. (Depending upon model)
- 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.

Mounting on a Table

- 1 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.



(Depending upon model)

- 2 Connect the power cord to a wall outlet.

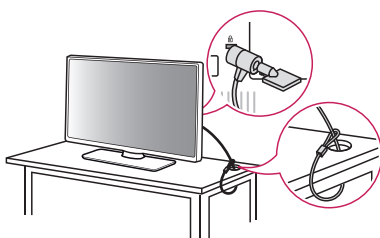


- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.
- 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 warranty.
- 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 fasten the screws with excessive force otherwise they may be worn out and become loose.

Using the Kensington Security System (optional)

(Depending upon model)

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.



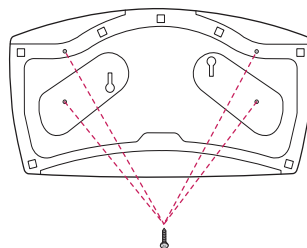
- The Kensington security system is optional. You can obtain additional accessories from your local dealer.

Attaching the TV to a Desk

(Depending upon model)

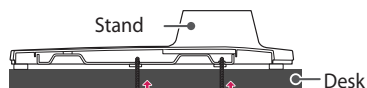
The TV should be attached to a desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product.

(TYPE A)



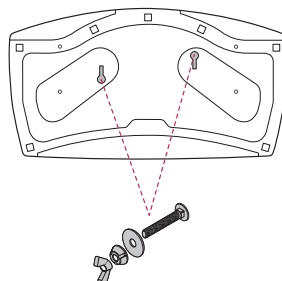
4-Screws

(Not supplied with TV)

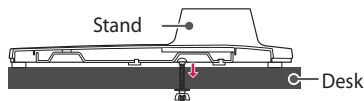


- Screw : M5 x L (*L: Table depth + 8~10 mm)
ex) Table depth: 15 mm, Screw: M5 x L25

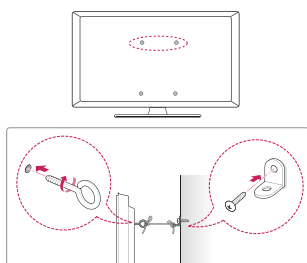
(TYPE B)



2-Screws for Stand Fixing,
2-Washers for Stand Fixing,
2-Nuts for Stand Fixing
(Supplied with TV)



Securing TV to the Wall

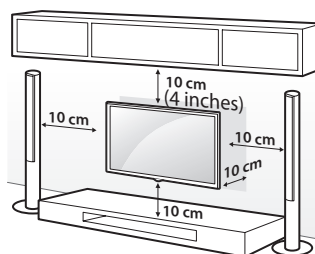


(Depending upon model)

- 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.
 - 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.

Mounting on a Wall

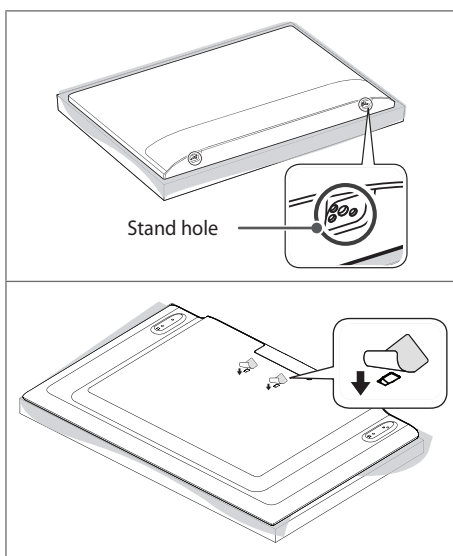
An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. 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.



(Depending upon model)



- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- For more information of screws and wall mount bracket, refer to the Separate purchase.
- 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.
- 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 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.
- When installing the wall mounting bracket, it is recommended to cover the stand hole using tape, in order to prevent the influx of dust and insects. (Depending upon model)



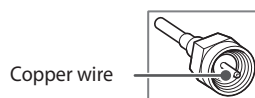
Connections

You can connect various external devices to the TV. For more information on external device's connection, refer to the manual provided with each device.

Antenna/Cable

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

- 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.
- Use a signal splitter to use 2 TVs or more.
- This TV cannot receive ULTRA HD (3840 x 2160 pixels) broadcasts directly because the related standards have not been confirmed. (Depending upon model)

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.

HDMI

- Supported HDMI Audio format :
(Depending upon model)
DTS (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz),
DTS HD (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz),
Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz),
PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)
- DTV Audio Supported Codec: MPEG, Dolby Digital
- MENU SETTINGS** ►   ► [Picture] ► [Additional Settings] ► [HDMI ULTRA HD Deep Color]
 - On : Support 4K @ 60 Hz (4:4:4, 4:2:2, 4:2:0)
 - Off : Support 4K @ 60 Hz 8 bit (4:2:0)

If the device connected to Input Port also supports ULTRA HD Deep Color, your picture may be clearer. However, if the device doesn't support it, it may not work properly. In that case, change the TV's [HDMI ULTRA HD Deep Color] setting to off.

 - This feature is available only on certain models which support HDMI ULTRA HD Deep Color.

USB

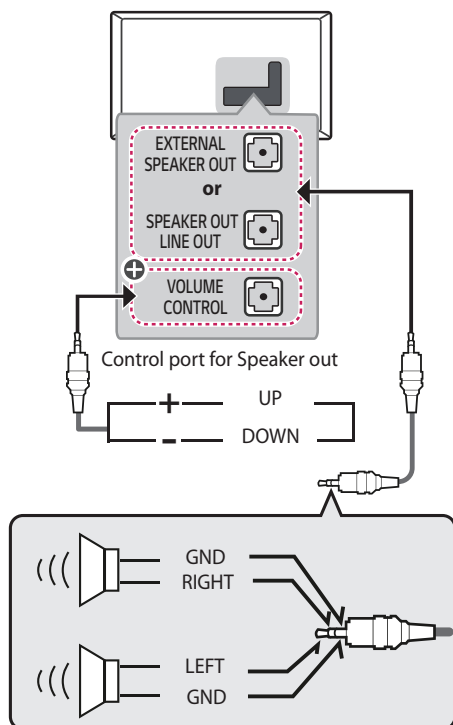
- Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the TV.
- It is recommended that you use a USB hub or USB HDD with a power supply. (If the power supplied is not sufficient, the USB storage device may not be detected properly.)
- It is recommended that you use an external USB HDD with a rated voltage of 5 V or less and a rated current of 500 mA or less.

External Devices

Supported external devices are: Blu-ray player, HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

- The external device connections shown may differ slightly from illustrations in a manual.
- Connect external devices to the TV regardless about 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.
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable.

External Speakers



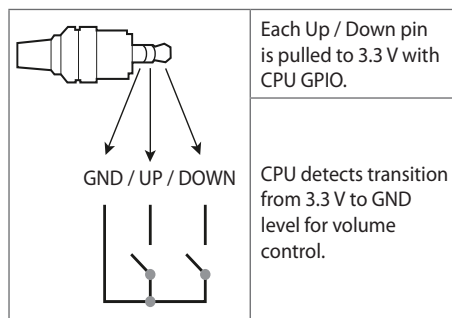
⊕ : Depending upon model

- Use only with the 3 pole 3.5 mm stereo jack.
- Do not connect your headphones or earphones to the port for connecting an external speaker.

Method of volume control port

(Depending upon model)

- Cable Spec.



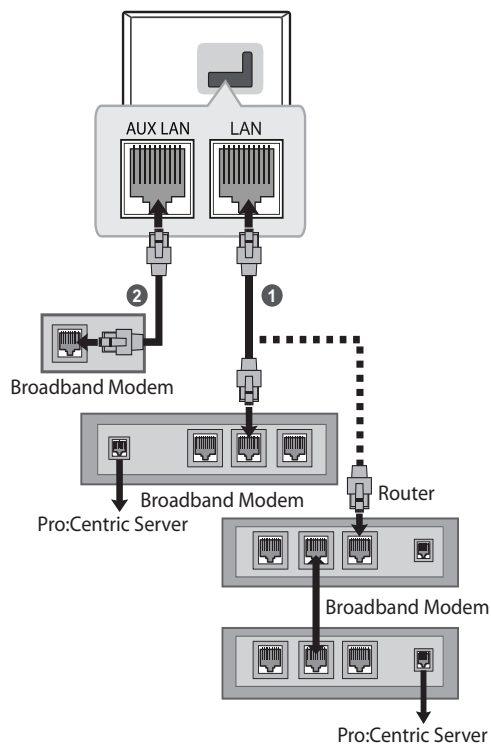
Network setup

(Depending upon model)

Wired network connection

This TV can be connected to a Pro:Centric server via the **LAN** port. After making the physical connection, the TV needs to be set up for network communication.

Connect the **LAN** port of the Modem or Router from Pro:Centric server to the **LAN** port on the TV.



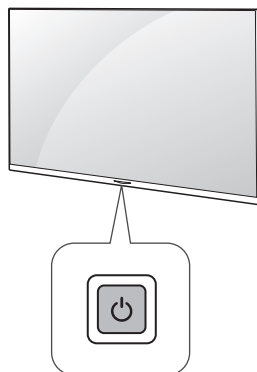
1 Connect the **LAN** port of the Modem or Router to the **LAN** port on the TV.

2 Connect the **LAN** port of the PC to the **AUX LAN** port on the TV. (Depending upon model)

- Do not connect a modular phone cable to the **LAN** port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.

Using the Button

You can simply operate the TV functions, using the button.



Basic Functions

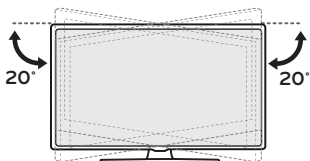
	Power On (Press) Power Off ¹ (Press)
--	--

1 All running apps will close.

Adjusting the Angle of the TV to suit view

(Depending on model)

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



- When adjusting the angle of the product, watch out for your fingers.
- Personal injury may occur if hands or fingers are pinched. If the product is tilted too much, it may fall, causing damage or injury.

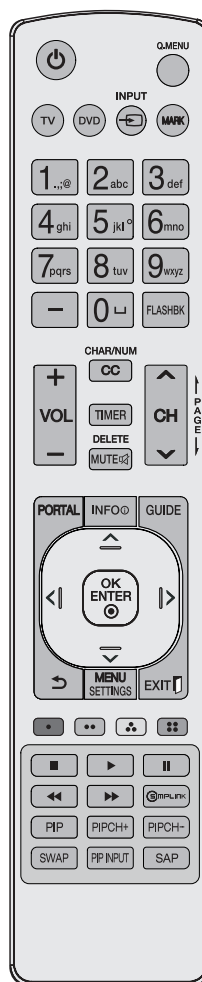
Using Remote Control

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

To 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.

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.

(TYPE A)



(Some buttons and services may not be provided depending upon models or regions.)

⏻ (Power) Turns the TV on or off.

Q.MENU Not functional.

TV Selects the remote's operating mode: TV.

DVD Selects the remote's operating mode: DVD.

INPUT Changes the input source.

MARK Not functional.

Number button Enters numbers.

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

␣ (Space) Not functional.

FLASHBK Tunes to the last channel or input viewed.

+ VOL — Adjusts the volume level.

CHAR/NUM Not functional.

CC Selects a closed caption.

TIMER Turns the TV off in a set amount of time.

DELETE Not functional.

MUTE Mutes all sounds.

^ CH v Scrolls through the saved channels.

⏮ PAGE ⏭ Moves to the previous or next screen.

PORTAL Displays and removes Pro:Centric Application.

INFO Shows the information of the current program.

GUIDE Displays and removes the electronic program guide of Pro:Centric Application.

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

OK ENTER Selects menus or options and confirms your input.

⏮ (Back) Returns to the previous screen.

MENU SETTINGS Accesses the quick settings.

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

These access special functions in some menus.

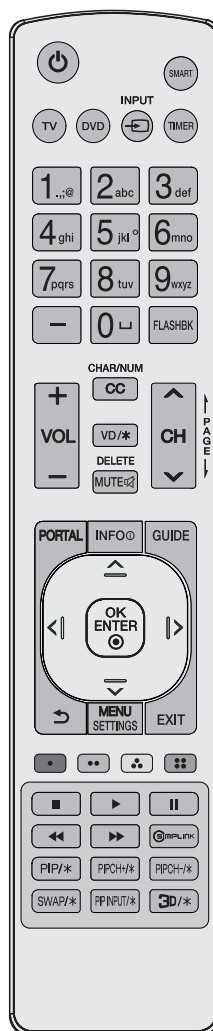
■, ⏮, ⏭, II, ⏭, ⏭ Control buttons for media contents

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

PIPPIPCH+/-SWAP, PIP INPUT Not functional.

SAP Analog mode: Selects MTS sound (Mono, Stereo or SAP) DTV mode: Changes the audio language.

(TYPE B)



(Some buttons and services may not be provided depending upon models or regions.)

 **(Power)** Turns the TV on or off.

SMART Accesses the Smart menu.

TV Selects the remote's operating mode: TV.

DVD Selects the remote's operating mode: DVD.

 **INPUT** Changes the input source.

TIMER Turns the TV off in a set amount of time.

Number button Enters numbers.

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

 **(Space)** Not functional.

FLASHBK Tunes to the last channel or input viewed.

+ VOL — Adjusts the volume level.

CHAR/NUM Not functional.

CC Selects a closed caption.

VD/* Enables VD function. SAP (Secondary Audio Program) feature can also be enabled by pressing the **VD** key.

DELETE Not functional.

MUTE  Mutes all sounds.

 **CH**  Scrolls through the saved channels.

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

PORTAL Displays and removes Pro:Centric Application.

INFO  Shows the information of the current program.

GUIDE Displays and removes the electronic program guide of Pro:Centric Application.

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

OK ENTER  Selects menus or options and confirms your input.

 **(Back)** Returns to the previous screen.

MENU SETTINGS Accesses the quick settings.

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

 These access special functions in some menus.

 Control buttons for media contents

 **SIMPLINK** Feature can only be enabled or disabled by installer menu settings. Configuration of this feature is not supported on TV remote control.

PIP/*;PIPC/*;PIPC/*;SWAP/*;PIP INPUT/* Not functional.

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



- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- 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.
- 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.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire or the like.

Troubleshooting

The software may be updated for improvement in performance. The customer is responsible to ensure the compatibility of their equipment with any LG Electronics software. If needed, please consult with LG Electronics and update new software versions according to the guidance provided by LG Electronics.

- Cannot control the TV with the remote control.
 - Check if anything such as tape has been placed over the receiver.
 - Check if there is any obstacle between the product and the remote control.
 - Replace the batteries with new fresh ones.
- 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.

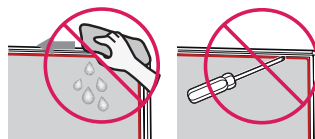
- The TV turns off suddenly.
 - Check the power control settings. The power supply may be interrupted.
 - Check if the auto-off function is activated on the settings related time.
 - If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.
- When connecting to the PC (HDMI), no signal is detected.
 - Turn the TV off/on using the remote control.
 - Reconnect the HDMI cable.
 - Restart the PC with the TV on.
- **Abnormal Display**
 - 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.
 - This panel is an advanced product that contains millions of 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.
 - Displaying a still image for a prolonged period of time may cause an image sticking. Avoid displaying a fixed image on the TV screen for an extended length of time.

• 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.



- When cleaning the product, be careful not to allow any liquid or foreign objects to enter the gap between the upper, left or right side of the panel and the guide panel. (Depending upon model)



- Make sure to wring any excess water or cleaner from the cloth.
- Do not spray water or cleaner directly onto the TV screen.
- Make sure to spray just enough of water or cleaner onto a dry cloth to wipe the screen.

Settings

To select Picture Mode

MENU SETTINGS ► ⓘ (⚙️) ► **[Picture]** ► **[Picture Mode Settings]** ► **[Picture Mode]**

Select the picture mode optimized for the viewing environment or the program.

- [Vivid] Heightens contrast, brightness and sharpness to display vivid images.
- [Standard] Displays images in standard levels of contrast, brightness and sharpness.
- [APS] APS (Auto power saving) mode reduces power consumption by dimming control.
- [Cinema] / [Game] Displays the optimum picture for a movie or a game.
- [Sports] Optimized picture mode for sports matches. The pitch and kits are presented in vibrant colors, with crystal-clear images even for fast movements.
- [HDR Effect] This feature lets you enjoy a more dynamic, clearer image by correcting the light and dark areas of the display. This feature provides a realistic image, even when the source image's gradation level is high. If you set Picture Mode to HDR Effect, you will not be able to use some of Picture Mode Settings.
- [Expert] Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This menu for adjustment is provided for ISF-certified picture tuning professionals. (ISF logo can be used only on ISF-certified TVs.) ISFccc: Imaging Science Foundation Certified Calibration Control
- Depending upon input signal, the available range of picture modes may differ.
- [Expert] mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be drastic.
- [Picture Mode] change may modify [Motion Eye Care] settings and it can affect energy consumption.

To set additional picture options

MENU SETTINGS ► ⓘ (⚙️) ► **[Picture]** ► **[Picture Mode Settings]** ► **[Picture Options]**

Adjusts detailed setting for images.

- [Noise Reduction] Eliminates noise in the picture.
- [MPEG Noise Reduction] Eliminates noise generated while creating digital picture signals.
- [Smooth Gradation] It removes the contour noise of the part with gradation to show a softer gradation.
- [Black Level] Adjusts the brightness and contrast of the screen to suit the black level of the input picture by using the blackness (black level) of the screen.
- [Real Cinema] Optimizes the screen for movie viewing.
- [Motion Eye Care] Saves power consumption by adjusting the brightness corresponding to the movement of the image on the screen.
- [TruMotion] Corrects- images to display smoother motion sequences. Auto means juddering and blurring range that depend on input video status is controlled by TruMotion mode.
- Depending upon input signal or other picture settings, the range of detailed items for adjustment may differ.

Specifications

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

Estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

Broadcasting Specifications	
Television system	ATSC, NTSC-M, 64 & 256 QAM
Program coverage (Band)	VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-135, 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 %

For UT670H0U, UT770H0U series

Wireless module(LGSBWAC92)Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	18 dBm
5150 to 5725 MHz	18 dBm
5725 to 5850 MHz	18 dBm
Bluetooth	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	8 dBm
As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.	
For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body.	
FCC ID: BEJLGSBWAC92	
IC: 2703H-LGSBWAC92	

HDMI (PC) supported mode

- Use HDMI IN 1 for PC mode.
(Depending upon model)

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60.00
1360 x 768	47.71	60.01
1152 x 864	54.34	60.05
1280 x 1024	63.98	60.02
1920 x 1080	67.50	60.00
	134.86	119.88
	135.00	120.00
2560 x 1440	88.78	59.95
2560 x 1440 ¹	182.99	119.99
3840 x 2160	53.95	23.98
	54.00	24.00
	56.25	25.00
	61.43	29.97
	67.50	30.00
	112.50	50.00
	134.86	59.94
4096 x 2160	135.00	60.00
	53.95	23.98
	54.00	24.00
	56.25	25.00
	61.43	29.97
	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00

¹ For 75UT770H0UA

HDMI (DTV) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480p	31.46	59.94
	31.50	60.00
720 x 480p	31.47	59.94
	31.50	60.00
720 x 576p	31.25	50.00
1280 x 720p	44.96	59.94
	45.00	60.00
	37.50	50.00
1920 x 1080i	28.12	50.00
	33.72	59.94
	33.75	60.00
1920 x 1080p	26.97	23.97
	27.00	24.00
	33.71	29.97
	33.75	30.00
	56.25	50.00
	67.43	59.94
	67.50	60.00
	112.50	100.00
	134.86	119.88
	135.00	120.00
3840 x 2160p	53.95	23.98
	54.00	24.00
	56.25	25.00
	61.43	29.97
	67.50	30.00
	112.5	50.00
4096 x 2160p	134.86	59.94
	135.00	60.00
	53.95	23.98
	54.00	24.00
	56.25	25.00
	61.43	29.97
	67.50	30.00
	112.50	50.00
	134.86	59.94
	135.00	60.00

Composite, AV Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480i	15.73	59.94
	15.75	60.00
720 x 480p	31.47	59.94
	31.50	60.00

Supported Photo Formats

File Format	Format	Resolution
.jpeg .jpg .jpe	JPEG	Minimum : 64 (W) x 64 (H) Maximum : - Normal Type : 15360 (W) x 8640 (H) - Progressive Type : 1920 (W) x 1440 (H)
.png	PNG	Minimum : 64 (W) x 64 (H) Maximum : 5760 (W) x 5760 (H)
.bmp	BMP	Minimum : 64 (W) x 64 (H) Maximum : 1920 (W) x 1080 (H)

Supported Audio Formats

File Format	Info
.mp3	(Bit rate) 32 Kbps - 320 Kbps (Sample freq.) 16 kHz - 48 kHz (Support) MPEG1, MPEG2 (channels) mono, stereo
.wav	(Bit rate) - (Sample freq.) 8 kHz ~ 96 kHz (Support) PCM (channels) mono, stereo
.ogg	(Bit rate) 64 Kbps - 320 Kbps (Sample freq.) 8 kHz ~ 48 kHz (Support) Vorbis (channels) mono, stereo
.wma	(Bit rate) 128 Kbps ~ 320 Kbps (Sample freq.) 8 kHz ~ 48 kHz (Support) WMA (channels) up to 6 ch
.flac	(Bit rate) - (Sample freq.) 8 kHz ~ 96 kHz (Support) FLAC (channels) mono, stereo

ENGLISH

Supported Video Formats

File Format	Codec	
.asf .wmv	Video	VC-1 Advanced Profile (except for WMVA), VC-1 Simple and Main Profiles
	Audio	WMA Standard (except for WMA v1/ WMA Speech)
.avi	Video	Xvid (except for 3 warp-point GMC), H.264/AVC, Motion Jpeg, MPEG-4
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, LPCM, ADPCM, DTS
.mp4 .m4v .mov	Video	H.264/AVC, MPEG-4, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3), Dolby AC-4
.3gp .3g2	Video	H.264/AVC, MPEG-4
	Audio	AAC, AMR-NB, AMR-WB
.mkv	Video	MPEG-2, MPEG-4, H.264/AVC, VP8, VP9, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, PCM, DTS, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.ts .trp .tp .mts	Video	H.264/AVC, MPEG-2, HEVC
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM, Dolby AC-4
.mpg .mpeg .dat	Video	MPEG-1, MPEG-2
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

Cautions for Video Playback

- ULTRA HD Video : 3840 x 2160, 4096 x 2160
- Some HEVC encoded ULTRA HD videos other than the content officially provided by LG Electronics may not be played.
- Some codecs can be supported after a software upgrade.

File Format	Codec	
.mkv .mp4 .ts	Video	H.264/AVC, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC

Supported External Subtitles

Subtitle	Format
External Subtitle	*.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX), *.dcs (DLP Cinema)
Embedded Subtitle	Matroska(mkv) : Sub Station Alpha(SSA), Advanced Sub Station Alpha(ASS), SRT MP4 : Timed Text

KEY CODES (TYPE A)

* This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH PAGE	R/C Button	C0	(Green)	R/C Button
01	CH PAGE	R/C Button	C1	(Red)	R/C Button
02	VOL	R/C Button	C2	(Yellow)	R/C Button
03	VOL	R/C Button	C3	(Blue)	R/C Button
06		R/C Button	8E		R/C Button
07		R/C Button	8F		R/C Button
08	(Power)	R/C Button	B0		R/C Button
09	MUTE DELETE	R/C Button	B1		R/C Button
10 - 19	Number Key 0 - 9, (Space)	R/C Button	BA		R/C Button
28	(Back)	R/C Button	AA	INFO	R/C Button
39	CC CHAR/NUM	R/C Button	AB	GUIDE	R/C Button
40		R/C Button	7E	mPLink	R/C Button
41		R/C Button	0A	SAP	R/C Button
43	MENU SETTINGS	R/C Button	60	PIP	R/C Button
44	OK ENTER	R/C Button	61	PIP INPUT	R/C Button
0B	INPUT	R/C Button	71	PIPCH+	R/C Button
0C	PORTAL	R/C Button	72	PIPCH-	R/C Button
0E	TIMER	R/C Button	63	SWAP	R/C Button
1A	FLASHBK	R/C Button	1E	MARK	R/C Button
4C	- (Dash)	R/C Button	-	TV	R/C Button
5B	EXIT	R/C Button	-	DVD	R/C Button
45	Q.MENU	R/C Button			

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

KEY CODES (TYPE B)

* This feature is not available for all models.

ENGLISH

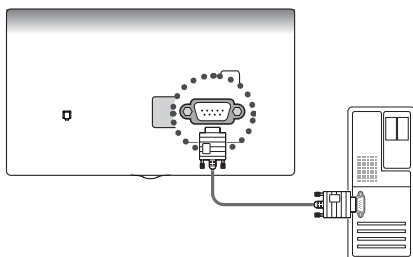
Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH PAGE	R/C Button	C0	(Green)	R/C Button
01	CH PAGE	R/C Button	C1	(Red)	R/C Button
02	VOL	R/C Button	C2	(Yellow)	R/C Button
03	VOL	R/C Button	C3	(Blue)	R/C Button
06		R/C Button	8E		R/C Button
07		R/C Button	8F		R/C Button
08	(Power)	R/C Button	B0		R/C Button
09	MUTE DELETE	R/C Button	B1		R/C Button
10 - 19	Number Key 0 - 9, (Space)	R/C Button	BA		R/C Button
28	(Back)	R/C Button	AA	INFO	R/C Button
39	CC CHAR/NUM	R/C Button	AB	GUIDE	R/C Button
40		R/C Button	7C	SMART	R/C Button
41		R/C Button	7E	SIMPLINK	R/C Button
43	MENU SETTINGS	R/C Button	DC	3D/*	R/C Button
44	OK ENTER	R/C Button	60	PIP/*	R/C Button
0B	INPUT	R/C Button	61	PIP INPUT/*	R/C Button
0C	PORTAL	R/C Button	71	PIPCH+/*	R/C Button
0E	TIMER	R/C Button	72	PIPCH-/*	R/C Button
1A	FLASHBK	R/C Button	63	SWAP/*	R/C Button
4C	— (Dash)	R/C Button	91	VD/*	R/C Button
5B	EXIT	R/C Button	-	TV	R/C Button
			-	DVD	R/C Button

- Key code 4C (0 x 4C) 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.
- * Cable is not provided.
- * The connection interface may differ from your TV.

RS-232C Setup



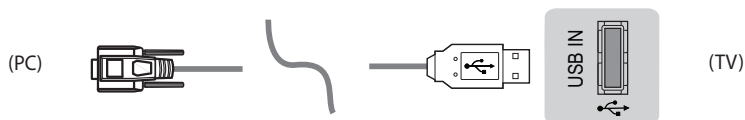
- Connect the USB to Serial converter/RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.
- Connect the serial port of the control device to the RS-232C jack on the product back panel.

NOTE

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

USB to Serial converter with USB Cable

USB Type



- LG TV supports PL2303 chip-based (Vendor ID : 0 x 0557, Product ID : 0 x 2008) 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.

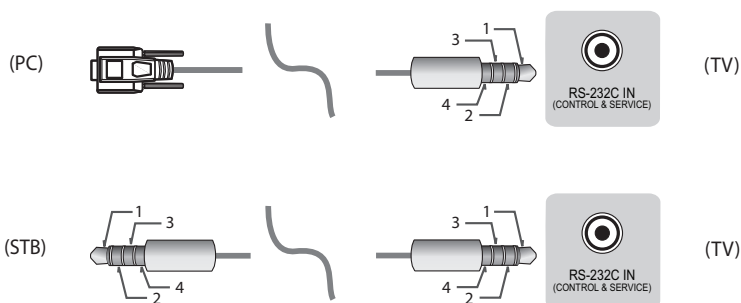
RS-232C with RS-232C Cable

DE9 (D-Sub 9pin) Type



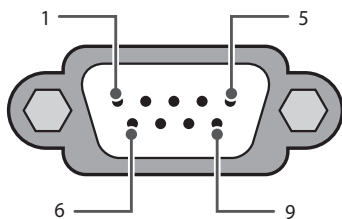
- You need to purchase the RS-232C (DE9, D-Sub 9 pin female-to-female type) to RS-232C cable required for the connection between the PC and the TV, which is specified in the manual.

Phone jack Type (75UT770H0UA Only)

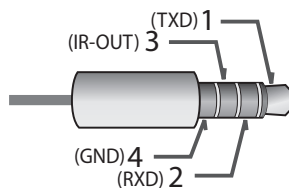


- You need to purchase the phone-jack to RS-232C cable required for the connection between the PC and the TV, which is specified in the manual.

Connector type: D-Sub 9-pin male



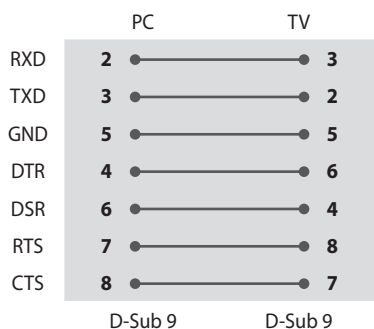
Connector Type: 4-Pin Phone-Jack (75UT770H0UA Only)



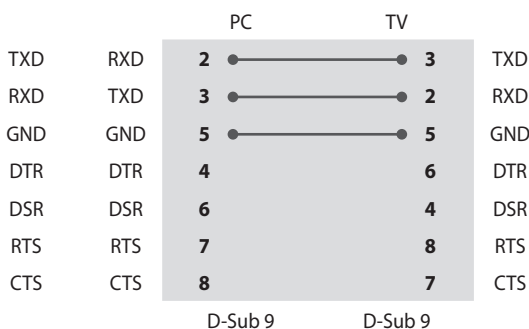
RS-232C (Serial port)

RS-232C configurations

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

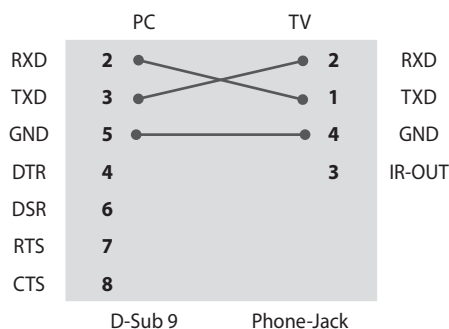


3-Wire Configurations
(Not standard)



RS-232C configurations (75UT770H0UA Only)

7-Wire or 3-Wire Configuration



Set ID

For Set ID number, see "Real data mapping (Hexadecimal : Decimal)".

- 1 Press **MENU SETTINGS** to access the main menu.
- 2 Press the navigation buttons to scroll to ([General] ► [Set ID]) and press **OK ENTER** button.
- 3 Scroll left or right to select a set ID number and select **↩ (Back)**. The adjustment range is 1-99.
- 4 When you are finished, press **EXIT** / **EXIT**.

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command reference list

* (Depending upon model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)
1 Power	k	a	00 to 01
2 [Aspect Ratio]	k	c	(page 30)
3 Screen Mute	k	d	(page 30)
4 Volume Mute	k	e	00 to 01
5 Volume Control	k	f	00 to 64
6 [Contrast]	k	g	00 to 64
7 [Brightness]	k	h	00 to 64
8 [Color]	k	i	00 to 64
9 [Tint]	k	j	00 to 64
10 [Sharpness]	k	k	00 to 32
11 OSD Select	k	l	00 to 01
12 Remote Control Lock Mode	k	m	00 to 01
13 [Balance]	k	t	00 to 64
14 [Color Temperature]	x	u	00 to 64
15 [Equalizer]	j	v	(page 32)
16 Tune Command	m	a	(page 32)
17 [Channel] Skip/Add	m	b	00 to 01
18 Key	m	c	Key Codes
19 Control [Backlight]	m	g	00 to 64
20 Input select	x	b	(page 35)

- During playing 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

* (Depending upon Model)

Transmission

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

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

(Command 2) : Second command to control the TV.

([Set ID]) : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 to 99. When selecting Set ID '0', every connected set is controlled. Set ID is indicated as decimal (1 to 99) on menu and as Hexa decimal (0 x 0 to 0 x 63) on transmission/receiving protocol.

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

(Cr) : Carriage Return - ASCII code '0 x 0D'

() : Space - ASCII code '0 x 20'

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
...	...	...

1 Power (Command: k a)

- To control power on or off of the set.

Transmission

(k)(a)()([Set ID])()(Data)(Cr)

Data 00 : [Off]

Data 01 : [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/NG)(Data)(x)

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

* OK Ack., Error Ack. and other message may display on the screen when TV is power on.

2 [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 picture settings.

Transmission

(k)(c)()([Set ID])()(Data)(Cr)

Data 01 : [4:3] (Normal screen - Just Scan Off)

Data 02 : [16:9] (Wide screen - Just Scan Off)

Data 06 : [Original] (Just Scan Off)

Data 09 : [Just Scan]

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.

3 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

Data 01 : Screen mute on (Picture off)

Data 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.

4 Volume Mute (Command: k e)

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

Transmission

(k)(e)()([Set ID])()(Data)(Cr)

Data 00 : Volume mute on (Volume off)

Data 01 : Volume mute off (Volume on)

Ack

(e)()([Set ID])()(OK/NG)(Data)(x)

5 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)

6 [Contrast] (Command: k g)

- To adjust screen contrast. You can also adjust contrast in the picture settings.

Transmission

(k)(g)()([Set ID])()(Data)(Cr)

Data Min : 00 to Max : 64

Ack

(g)()([Set ID])()(OK/NG)(Data)(x)

7 [Brightness] (Command: k h)

- To adjust screen brightness. You can also adjust brightness in the picture settings.

Transmission

(k)(h)()([Set ID])()(Data)(Cr)

Data Min : 00 to Max : 64

Ack

(h)()([Set ID])()(OK/NG)(Data)(x)

8 [Color] (Command: k i)

- To adjust the screen color. You can also adjust color in the picture settings.

Transmission

(k)(i)()([Set ID])()(Data)(Cr)

Data Min : 00 to Max : 64

Ack

(i)()([Set ID])()(OK/NG)(Data)(x)

9 [Tint] (Command: k j)

- To adjust the screen tint. You can also adjust color in the picture settings.

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 settings.

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 : [Off]

Data 01 : [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 : [Off]

Data 01 : [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 operation is on, TV will not turn on by power on key of IR & Local Key.

13 [Balance] (Command: k t)

- To adjust balance. You can also adjust balance in the audio settings.

Transmission

(k)(t)()([Set ID])()(Data)(Cr)

Data Min : 00 to Max : 64

Ack

(t)()([Set ID])()(OK/NG)(Data)(x)

14 [Color Temperature] (Command: x u)

- To adjust color temperature. You can also adjust color temperature in the picture settings.

Transmission

(x)(u)()([Set ID])()(Data)(Cr)

Data Min : 00 to Max : 64

Ack

(u)()([Set ID])()(OK/NG)(Data)(x)

15 [Equalizer] (Command : j v)

- Adjust EQ of the set.

Transmission

(j)(v)()([Set ID])()(Data)(Cr)

MSB

LSB



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)

Ack

(v)()([Set ID])()(OK/NG)(Data)(x)

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

16 Tune Command (Command: m a)

- * This command may work differently Depending upon 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 byte channel data

Data 01 : Low byte 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)()(Data 00)()(Data 01)()

(Data 02)()(Data 03)()(Data 04)()(Data 05)(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)()(Data 00)()(Data 01)()(Data 02)
 ()(Data 03)()(Data 04)()(Data 05)(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)

17 [Channel] Skip/Add (Command: m b)

- To skip current channel for next time.

Transmission

(m)(b)()([Set ID])()(Data)(Cr)

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

Data 01 : Add

Ack

(b)()([Set ID])()(OK/NG)(Data)(x)

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

18 Key (Command: m c)

- To send IR remote key code.

Transmission

(m)(c)()([Set ID])()(Data)(Cr)

Data : Key code - page 23, 24

Ack

(c)()([Set ID])()(OK/NG)(Data)(x)

19 Control [Backlight] (Command: m g)

- 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)

20 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

Data 01 : CADTV

Data 02 : Satellite DTV ISDB-BS (Japan)

Data 03 : ISDB-CS1 (Japan)

Data 04 : ISDB-CS2 (Japan)

Data 10 : ATV

Data 11 : CATV

Data 20 : AV or AV1

Data 21 : AV2

Data 40 : Component1

Data 41 : Component2

Data 60 : RGB

Data 90 : HDMI1

Data 91 : HDMI2

Data 92 : HDMI3

Data 93 : HDMI4

Ack

(b)()([Set ID])()(OK/NG)(Data)(x)

* This function depends on model and signal.

IR OUT Using Guide

Suitable / Not Recommend remote-controller data format

Item	Data format code	Note
Suitable Data Format	NEC, Toshiba Full Repeat Code Format	Single : Enable Repeat : Enable
	Philips RC5, RC6 Code Format	
	Zenith Code Format	
Not Recommend Data Format	Matsushita, RCA Code Format	Single : Enable
	Sony 12/15/20 bit, Mitsubishi Code Format	Repeat : Disable
	Sharp, JVC, R-step, Philips RCMM, RECS-80, XMP Code Format	Single : Disable Repeat : Disable

IR Receiver specifications

Carrier frequency	37.9 KHz
Peak Wavelength	940 nm
Minimum burst length	Min. 300 μ s
Minimum gap time is required of	Min. 350 μ s
Data word length	Max. 100 ms
Minimum gap time in the data stream is needed of	Min. 50 ms

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
High Level Out Pulse Width	Tw _H	Burst Wave = 600 μ s	400	-	800	μ s
Low Level Out Pulse Width	Tw _L	Period = 1.2 ms	400	-	800	μ s



If not use the remote-controller with data formats recommended, IR output signals will be suppressed automatically by IR receiver. In this case, LG does not guarantee IR working function. To make sure of this matter, here are two methods as below.

- Use the remote-controller with suitable data formats.
- Use the IR dongle receiver of the set-top box.

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 a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

Updating Firmware

(Depending upon model)

You can update the firmware for the product by downloading the latest firmware.

- 1 Download the latest firmware at partner.lge.com.
(Signing up for a membership and log-in required)
- 2 Create a folder named "LG_DTV" or "lg_dtv" on a USB memory device.
- 3 Move the downloaded file to the folder that you have created on the USB memory device.
- 4 Connect the USB memory device to the USB port on your TV.
- 5 When a pop-up window appears, start the update by following the instructions.

Licenses

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

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(Depending upon model)



Regulatory

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. 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)

(For USA)

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 USA)

[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 contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (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 & 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.

RSS-247 Requirement

(For Canada)

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

- (1) 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;
- (2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- (3) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- (4) [For devices operating in the band 5250-5350 MHz having an e.i.r.p. greater than 200 mW] Antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 of RSS-247 shall be clearly indicated.

Users should also be advised that 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.

WARNING!

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. 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 set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

Symbols

	Refers to alternating current (AC).
	Refers to direct current (DC).
	Refers to class II equipment.
	Refers to stand-by.
	Refers to "ON" (power).
	Refers to dangerous voltage.

LG Take-back & Recycling Policy

(For USA)

LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates products' recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG Electronics seeks to contribute to conserving natural resources and protecting the environment. For more information, please visit our global site at <https://www.lg.com/recycling>

THE CONSUMER TECHNOLOGY INDUSTRY CARES

Manufacturers, retailers and the rest of the consumer technology industry are committed to making products 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

- **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** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **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 a Nationally Recognized Testing Laboratory (NRTL).
- **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. Use proper anchoring systems for different wall or ceiling types (e.g. wood, concrete, metal, etc.). 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

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



Supplier's Declaration of Conformity

Trade Name LG
Responsible Party LG Electronics USA, Inc.
Address 111 Sylvan Avenue, North Building,
Englewood Cliffs, NJ 07632
E-mail lg.environmental@lge.com

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL _____

SERIAL NO. _____

LG Customer Information Center

For inquires or comments,
visit www.lg.com or call;

1-888-865-3026 USA, Commercial User

1-855-286-2456 CANADA