Life's Good

OWNER'S MANUAL

Safety and Reference

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

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

65SK9500PSA	75UK6520PSA	50UK6510PSF	49UK6300PSB	43LK5700PSC	75UK6570PDA	55UK6200PDA
65SK8500PSA	75UK6570PSA	50UK6520PSA	49UK6310PSE	43LK5750PSA	70UK6550PDA	49UK6200PDA
55SK8500PSA	70UK6540PSA	50UK6550PSB	43UK6310PSE	65SK9500PDA	65UK6550PDB	43UK6200PDA
75SK8000PSA	70UK6550PSA	50UK6500PSA	43UK6300PSB	65SK8500PDA	55UK6550PDB	32LK610BPDA
65SK8000PSA	65UK6530PSF	43UK6510PSF	60UK6200PSA	55SK8500PDA	50UK6500PDA	49LK5700PDC
55SK8000PSA	65UK6540PSB	43UK6520PSA	55UK6200PSA	65SK8000PDA	65UK6350PDC	43LK5700PDC
65UK7500PSA	65UK6550PSB	43UK6500PSA	49UK6200PSA	55SK8000PDA	65UK6300PDB	32LK615BPSB
55UK7500PSA	55UK6540PSB	65UK6350PSC	43UK6200PSA	65UK7500PDA	55UK6350PDC	49UK7510PSB
49UK7500PSA	55UK6550PSB	55UK6360PSF	32LK610BPSA	55UK7500PDA	49UK6300PDB	50UK6300PSB
86UK6520PSA	55UK6530PSF	55UK6350PSC	49LK5700PSC	49UK7500PDA	43UK6300PDB	50UK6300PDB
86UK6570PSA	55UK6500PSA	55UK6300PSB	49LK5750PSA	86UK6570PDA	60UK6200PDA	

MFL70301602
(1805-REV03)

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Important Safety Instruction

ENGLISH

- 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 : 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.

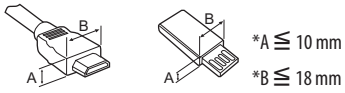
  Otherwise, this may result in fire, electric shock, combustion/ explosion, malfunction or product deformation.
- **Ventilation**
  - Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
  - Do not install the product on a carpet or cushion.
  - Do 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.

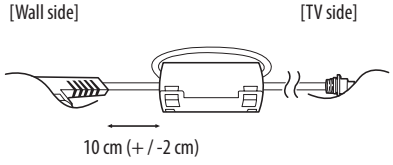
  Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.
- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written 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.
- **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 thick and 18 mm width.
- Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV's USB port.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types (3 m or less)
  - High-Speed HDMI®/™ cable
  - High-Speed HDMI®/™ cable with Ethernet



- How to use the ferrite core, (Depending upon model).
  - Use the ferrite core to reduce the electromagnetic interference in the power cord. Wind the power cord on the ferrite core once.



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.

Magic Remote Control

(Depending upon model)

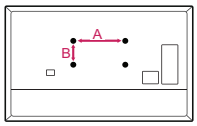
AN-MR18BA

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

(Depending upon model)

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	49UK75* 43/50UK65* 43/50UK63* 43UK62* 32LK61* 43LK57*	55SK80* 55UK75* 55UK65* 49/55UK63* 49/55UK62* 49LK57*
VESA (A x B)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket (optional)	LSW240B MSW240	OLW480B MSW240
Model	65SK95* 55/65SK85* 65SK80* 65UK75* 65UK65* 65UK63* 60UK62*	75SK80* 70/75/86UK65*
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

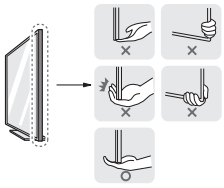
Lifting and moving the TV

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.

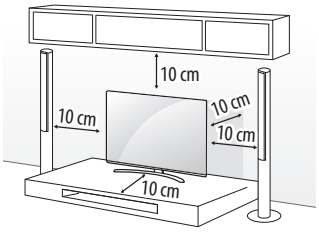


- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.

- 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 the Table

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

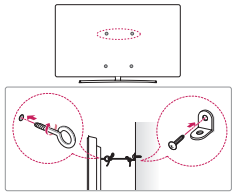


(Depending upon model)

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 strip and become loose.

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.

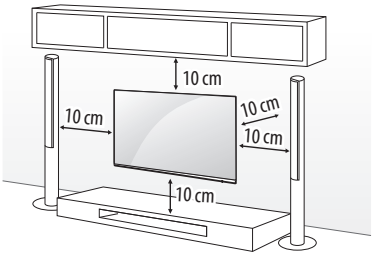
2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.

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.

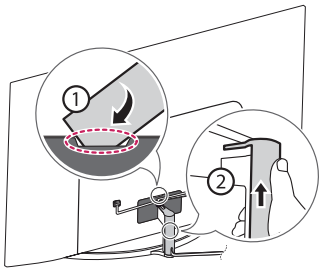
Mounting to the Wall

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.



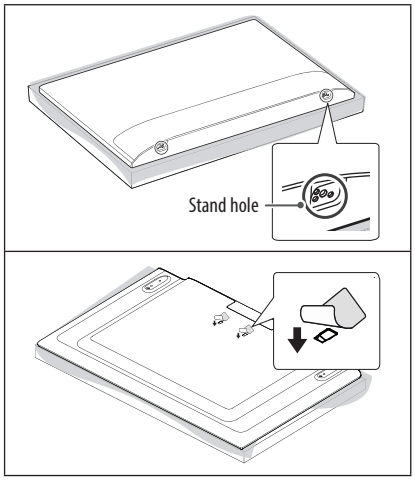
(Depending upon model)

- 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.



- Do not use a sharp object when you detached the cable cover. This could damage the cable or the cabinet. It may also cause personal harm, (Depending upon model).

- 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.
- To improve the picture quality in a poor signal area, purchase a signal amplifier.
- Use a signal splitter to use 2 TVs or more.
- If the antenna is not installed properly, contact your dealer for assistance.
- 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),
  True HD (48 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)

(Only UHD models)

- → → → (⚙) → **Picture** → **Additional Settings** → **HDMI ULTRA HD Deep Color**
  - On : Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0)
  - Off : Support 4K @ 50/60 Hz 8bit (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.

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.

- If you record a TV program on a Blu-ray/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 about recording, refer to the manual provided with the connected device.
- 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.
- 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.
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable.
- For LK series, HDR (High Dynamic Range) pictures can be viewed over the Internet or via USB and HDMI 1.4 compatible devices.

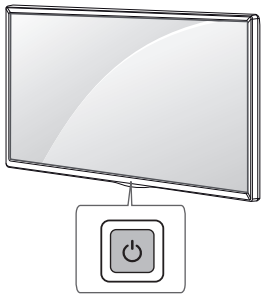
Remote RS-232C setup

To obtain the RS-232C external control setup information, please visit *www.lg.com*. Download and read the manual, (Depending upon model).

- 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.
- 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.

Using Button

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



Basic functions

	Power On (Press) Power Off [1] (Press and Hold) Menu Control (Press [2]) Menu Selection (Press and Hold [3])

1 All running apps will close, and any recording in progress will stop.
2 You can access and adjust the menu by pressing the button when TV is on.
3 You can use the function when you access menu control.

Adjusting the menu

When the TV is turned on, press the ⏻ button one time. You can adjust the Menu items using the button.

⏻	Turns the power off.
⇄	Changes the input source.
∧ ∨	Scrolls through the saved Channels.
+ −	Adjusts the volume level.

Using Remote Control

(Depending upon model)

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

To install batteries, open the battery cover, replace batteries (1.5 V AAA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. 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.

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



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

* **To use the button, press and hold for more than 3 seconds.**

(POWER) Turns the TV on or off.
TV Returns to the last TV channel.
CC/SUB Activates or deactivates the subtitles.
Activates your preferred subtitle in digital mode. (Depending upon country)
(Q. Settings) Accesses the Quick Settings.
(Search) Shows the search mode.
(Input) Changes the input source.
Number button Enters numbers.
(Dash) Inserts a dash between numbers such as 2-1 and 2-2.
LIST Accesses the saved channel list.
Q.VIEW Alternates between the two last channels selected (pressing repeatedly).
QUICK ACCESS* You can access the application or Live TV channel by using the number buttons as registered.
+ VOL − Adjusts the volume level.
FAV Accesses your favorite channel list.
INFO Shows information on the current program.
(MUTE) Mutes all sounds.
* **(MUTE)** Accesses the **Accessibility** menu.
∧ CH ∨ Scrolls through the saved channels.
∧ PAGE ∨ Moves to the previous or next screen.
1, 2 **Streaming Service buttons** Connects to the Video Streaming Service.
(Home) Accesses the Home menu.
* **(Home)** Shows the previous history.
GUIDE Displays the program event according to time scheduler.
LIVE ZOOM By zooming in on the selected area, you can view it in full screen.
Navigation button (up / down / left / right)
Scrolls through menus or options.
OK Selects menus or options and confirms your input.
BACK Returns to the previous screen.
EXIT Clears all on-screen displays and returns to TV viewing.
SAP/✳ Enables SAP (Secondary Audio Program) Feature, (Depending upon model).
REC/✳ Starts to record. (Only Time Machine Ready supported model) (Depending upon model)
■, ◀◀, ▶, ❚❚, ▶▶ Control buttons for media contents
·, ··, ∴, ⁘ These access special functions in some menus.

ENGLISH

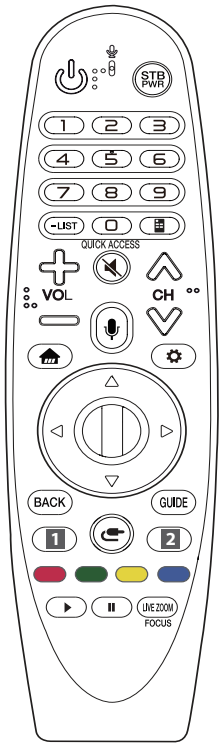
Using Magic Remote Control

(Depending upon model)

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

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

To install 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. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.



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

* **To use the button, press and hold for more than 3 seconds.**

(POWER) Turns the TV on or off.

STB PWR You can turn your set-top box on or off by adding the set-top box to the universal remote control for your TV.

Number buttons Enters numbers.

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

LIST Accesses the saved channel list.

(Screen Remote) Displays the Screen Remote.

- Accesses the Universal Control Menu in some regions.

* **(Screen Remote)** SAP (Secondary Audio Program) Feature can be enabled by pressing the key.

QUICK ACCESS* You can access apps or Live TV using the number buttons corresponding to the features.

VOL Adjusts the volume level.

(MUTE) Mutes all sounds.

* **(MUTE)** Accesses the **Accessibility** menu.

CH Scrolls through the saved Channels.

* **(Voice recognition)**

Network connection is required to use the voice recognition function.

Once the voice display bar is activated on the TV screen, press and hold the button and speak your command out loud.

(HOME) Accesses the Home menu.

* **(HOME)** Shows the previous history.

Wheel (OK) Press the center of the Wheel button to select a menu. You can change Channels by using the wheel button.

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

BACK Returns to the previous level.

BACK* Clears on-screen displays and returns to last input viewing.

GUIDE Displays the program event according to time scheduler.

1, 2 **Streaming Service buttons** Connects to the Video Streaming Service.

(INPUT) Changes the input source.

* **(INPUT)** Displays all the lists of external inputs.

(Q. Settings) Accesses the Quick Settings.

* **(Q. Settings)** Displays the **All Settings** menu.

, , , These access special functions in some menus.

* **(Red Button)** : Runs the record function.

▶, ❚❚ Control buttons for media contents

LIVE ZOOM By zooming in on the selected area, you can view it in full screen.

FOCUS* You can zoom in on the area where the remote control is pointed.

Registering Magic Remote Control

How to register the Magic Remote Control

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 Control

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 **GUIDE** button will let you cancel and re-register Magic Remote at the same time.

- 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

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 in the settings menu.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

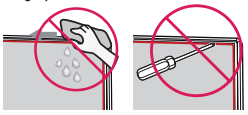
Abnormal Display

- 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 a 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.

Specifications

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

(Depending upon country)

Broadcasting Specifications				
	For SK9500PS, SK8500PS, SK8000PS, UK7500PS, UK6520PS, UK6570PS, UK6540PS, UK6550PS, UK6530PS, UK6500PS, UK6510PS, UK6350PS, UK6360PS, UK6300PS, UK6310PS, UK6200PS, LK610BPS, LK5700PS, LK5750PS, LK615BPS, UK7510PS series		**For SK9500PD, SK8500PD, SK8000PD, UK7500PD, UK6570PD, UK6550PD, UK6500PD, UK6350PD, UK6300PD, UK6200PD, LK610BPD, LK5700PD series**	
	Digital	Analog	Digital	Analog
Television system	SBTVD	NTSC, PAL-M/N	DVB-T/T2	NTSC, PAL-M/N
Program coverage (Band)	VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-135		VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-125	
External antenna impedance	75 Ω			

(Only LK61*)

Wireless module(LGSWFAC71) Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz 5150 to 5725 MHz 5725 to 5850 MHz	15 dBm 14.5 dBm 14.5 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 between the device and the body. FCC ID: BEJLGSWFAC71 IC: 2703H-LGSWFAC71	

(Except for LK61*)

Wireless module (LGSBWAC72) Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz 5150 to 5725 MHz 5725 to 5850 MHz	15 dBm 14.5 dBm 14.5 dBm
Bluetooth	
Frequency Range	Output Power (Max.)
2400 to 2483.5 MHz	8.5 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 between the device and the body. FCC ID: BEJLGSBWAC72 IC: 2703H-LGSBWAC72	

Environment condition	
Operating Temperature	0 ℃ to 40 ℃
Operating Humidity	Less than 80 %
Storage Temperature	-20 ℃ to 60 ℃
Storage Humidity	Less than 85 %

- The energy information provided on the product is shown in accordance with the applicable regulations of each respective country, (Depending upon the country).
  - The Energy consumption was measured in accordance with IEC 62087.
- The actual energy consumption depends on the usage environment, (Example: content watched, TV settings, etc.).

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.

Licenses

Supported licenses may differ by model.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Regulatory

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.



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 No. _____

SMART TV Quick Setup Guide

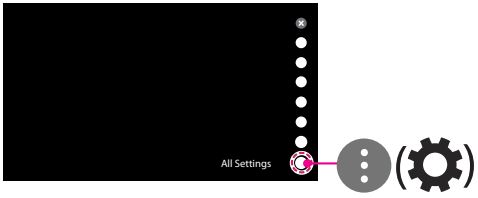
* Image shown may differ from your TV.
* Image shown on a PC or mobile phone may vary depending on the OS(Operating System).
* App icon positions may vary on the platform, depending upon the software version.

Network Settings

1 Press the **(Home)** button on the remote to access the Home menu. Point the **(Settings)** icon and select by pressing the **Wheel (OK)** button on the remote.



2 Point the (**All Settings**) icon and select by pressing the **Wheel (OK)** button on the remote.



3 Select the **Network** → **Wired Connection (Ethernet)** or **Wi-Fi Connection**.



4 The device automatically tries to connect to the network available (wired network first).
When you select the **Wi-Fi Connection**, the network list available is displayed. Choose the network you wish to use.

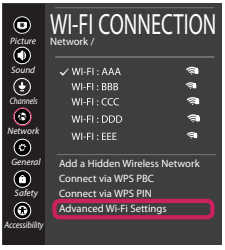


For wireless AP (Router) that have the symbol, you need to enter the security key.

5 If the connection is successful, the "**Connected to Internet**" is displayed.



You can check the status of connection in **Advanced Wi-Fi settings**.





www.lg.com

Troubleshooting Network Problems

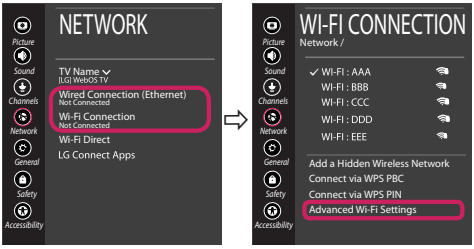
1 Press the **(Home)** button on the remote to access the Home menu. Point the **(Settings)** icon and select by pressing the **Wheel (OK)** button on the remote.



2 Point the (**All Settings**) icon and select by pressing the **Wheel (OK)** button on the remote.



3 Select the **Network** → **Wired Connection (Ethernet)** or **Wi-Fi Connection** → **Advanced Wi-Fi Settings**.



Follow the instructions below that match to your network status.

Check the TV or the AP (Router).



When X appears next to TV:

1. Check the connection status of the TV, AP (Router) and cable modem.
2. Power off and power on in the following order; (1st) the cable modem, wait for the cable modem to reset, (2nd) the AP (Router), wait for the AP (Router) to reset and (3rd) the TV.
3. If you are using a static IP, enter the IP directly.
4. Contact internet service provider or AP (Router) manufacturer.

Check the AP (Router) or consult your Internet service provider.



When X appears next to Gateway:

1. Unplug the power cord of the AP (Router) or cable modem, wait 5 seconds. Reapply power.
2. Initialize (Reset) the AP (Router) or cable modem.
3. Contact Internet service provider or AP (Router) manufacturer.



When X appears next to DNS:

1. Unplug the power cord of the AP (Router) or cable modem, wait 5 seconds. Reapply power.
2. After the cable modem or AP (Router) has initialized (Reset), try to reconnect.
3. Check that the MAC address of the TV/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the right pane of the network status window should be registered with your Internet service provider.)
4. Check the AP (Router) manufacturer's website to make sure your router has the latest firmware version installed.

SmartShare PC SW Installing & Setting

1 Install the SmartShare PC SW programme on your PC.

2 Go to ***www.lg.com***. Then, select your region.

3 Select **Support**.

4 Select **Software & Drivers**. Then, select **SmartShare**.

5 Download the SmartShare PC SW and install it on your PC. You can run the program when installation is complete.

NOTE

- **Smartshare** service is only available if TV and other devices are connected via a single AP (Router).

SmartShare Connection to Smartphone

1 Check that Wi-Fi is enabled on your smartphone. To use **SmartShare**, both devices must on the same local network.

2 Install/run the app for sharing content on your smartphone (It's called **LG TV Plus** on LG phones).

3 Enable your smartphone to share content files with other devices.

4 Open **Device Connector** application.
(Home) → Device Connector → Smartphone → CONTENT SHARE.

5 Select the file type you want to play (movie, audio or photo).

6 Select a movie, music or photo file to play on the TV.

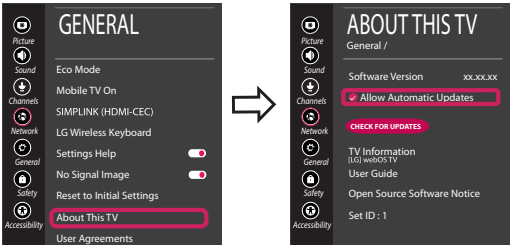
7 Play the media file to view and enjoy it on your TV.

Updating the TV Firmware

* 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.

1 **(Home) → (Settings) → (All Settings) → General → About This TV → CHECK FOR UPDATES**

2 After checking the version of the software, update it.
If you check the "**Allow Automatic Updates**", you can update the software automatically.



Wi-Fi Direct Setting



(Home) → (Settings) → (All Settings) → Network → Wi-Fi Direct

If a local network is not available, you can connect a portable device directly to the TV using Wi-Fi Direct.
With **SmartShare**, you can share files or screens of devices connected to **Wi-Fi Direct**.

1 When you open **Wi-Fi Direct** menu, a list of available devices appears.

2 When you are prompted to request connection, select **Yes**. **Wi-Fi Direct** is now connected to your TV.

* You can only use devices that support **Wi-Fi Direct**.

Miracast Setting

Miracast allows a portable device to send video and sound securely to the TV wirelessly.

1 **Miracast** should be set to "**ON**" on your portable device.

2 When your TV is detected, select the device on your portable device.
When connection is completed, the device screen appears on the TV screen.

Guide d'installation rapide du téléviseur SMART

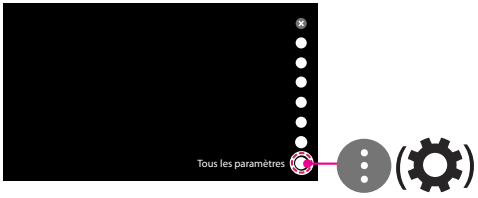
* Les images présentées pourraient ne pas correspondre à votre téléviseur.
* Les images affichées sur un ordinateur ou un téléphone mobile peuvent varier en fonction du SE (système d'exploitation).
* L'emplacement de l'icône de l'application peut varier sur la plateforme, en fonction de la version du logiciel.

Paramètres réseau

1 Appuyez sur le bouton **(Accueil)** de la télécommande pour accéder au menu d'accueil. Visez l'icône **(Paramètres)** et sélectionnez-la en appuyant sur le bouton **Molette (OK)** de la télécommande.



2 Visez l'icône (⋮(⚙)) **(Tous les paramètres)** et sélectionnez-la en appuyant sur le bouton **Molette (OK)** de la télécommande.



3 Sélectionnez le **Réseau** → **Connexion filaire (Ethernet)** ou **Connexion Wi-Fi**.

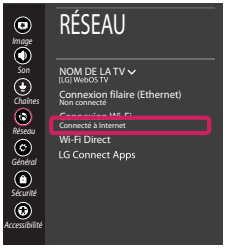


4 L'appareil tente automatiquement de se connecter au réseau disponible (réseau filaire en premier).
Lorsque vous sélectionnez la **Connexion Wi-Fi**, la liste des réseaux disponibles s'affiche. Choisissez le réseau que vous voulez utiliser.

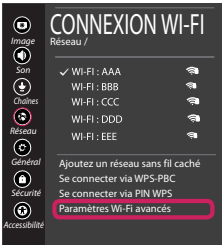


Pour les points d'accès sans fil (routeur) affichant le symbole , vous devez saisir le code de sécurité.

5 Lorsque la connexion est établie, la mention « **Connecté à Internet** » est affichée.



Vous pouvez vérifier l'état de la connexion dans **Paramètres Wi-Fi avancés**.



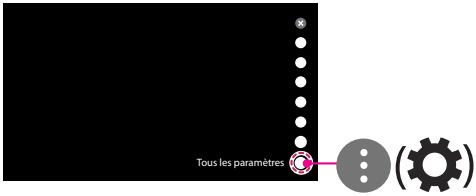


Dépannage des problèmes réseau

1 Appuyez sur le bouton **(Accueil)** de la télécommande pour accéder au menu d'accueil. Visez l'icône **(Paramètres)** et sélectionnez-la en appuyant sur le bouton **Molette (OK)** de la télécommande.



2 Visez l'icône (⚙) **(Tous les paramètres)** et sélectionnez-la en appuyant sur le bouton **Molette (OK)** de la télécommande.



3 Sélectionnez le **Réseau** → **Connexion filaire (Ethernet)** ou **Connexion Wi-Fi** → **Paramètres Wi-Fi avancés**.



Suivez les instructions ci-dessous qui correspondent à l'état de votre réseau.

Vérifiez le téléviseur ou le point d'accès (routeur).



Lorsqu'une croix (X) apparaît à côté du téléviseur :

1. Vérifiez l'état de la connexion du téléviseur, du point d'accès (routeur) et du modem câble.
2. Mettez les appareils hors tension et sous tension dans l'ordre suivant : (1) le modem câble, attendez que le modem câble se réinitialise; (2) le point d'accès (routeur), attendez que le routeur se réinitialise et (3) le téléviseur.
3. Si vous utilisez une adresse IP fixe, saisissez-la directement.
4. Communiquez avec le fournisseur d'accès à Internet ou avec le fabricant du point d'accès (routeur).

Vérifiez le point d'accès (routeur) ou consultez votre fournisseur d'accès à Internet.



Lorsqu'une croix (X) apparaît à côté de la passerelle :

1. Débranchez le cordon d'alimentation du point d'accès (routeur) ou du modem câble, attendez 5 secondes, puis rebranchez-le.
2. Réinitialisez le point d'accès (routeur) ou le modem câble.
3. Communiquez avec le fournisseur d'accès Internet ou le fabricant du point d'accès (routeur).



Lorsqu'une croix (X) apparaît à côté du DNS :

1. Débranchez le cordon d'alimentation du point d'accès (routeur) ou du modem câble, attendez 5 secondes, puis rebranchez-le.
2. Une fois que le modem câble ou le point d'accès (routeur) est réinitialisé, essayez de vous reconnecter.
3. Vérifiez que l'adresse MAC du téléviseur ou du point d'accès (routeur) est enregistrée auprès de votre fournisseur d'accès à Internet. (L'adresse MAC affichée dans le volet droit de la fenêtre d'état du réseau doit être enregistrée auprès de votre fournisseur d'accès Internet.)
4. Consultez le site Web du fabricant de votre point d'accès (routeur) afin de vérifier que celui-ci exécute la dernière version du microprogramme.

Installation et configuration du logiciel PC SmartShare

1 Installez le logiciel PC SmartShare sur votre ordinateur.
2 Rendez-vous sur ***www.lg.com***, puis sélectionnez votre région.
3 Sélectionnez **Soutien**.
4 Sélectionnez **Logiciels et micrologiciels**. Sélectionnez **Partage "SmartShare"**.
5 Téléchargez le logiciel PC SmartShare et installez-le sur votre ordinateur. Vous pouvez exécuter le programme lorsque l'installation est terminée.

REMARQUE

- Le service **Smartshare** est offert uniquement si le téléviseur et les autres appareils sont connectés au même point d'accès (routeur).

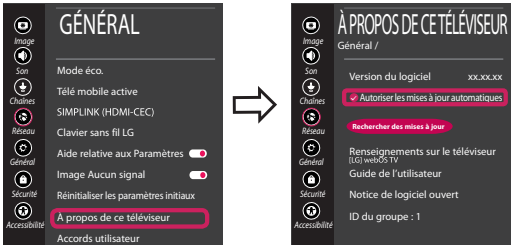
Connexion SmartShare à un téléphone intelligent

1 Vérifiez que l'option Wi-Fi est activée sur votre téléphone intelligent. Pour utiliser **SmartShare**, les deux appareils doivent être sur le même réseau local.
2 Installez/exécutez l'application de partage de contenu sur votre téléphone intelligent (sur les téléphones LG, il s'agit de **LG TV Plus**).
3 Activez l'option sur votre téléphone intelligent afin de partager des fichiers avec d'autres appareils.
4 Ouvrez l'application **Connecteur de périphérique**.
(Accueil) → Connecteur de périphérique → Téléphone intelligent → PARTAGE DE CONTENU.
5 Sélectionnez le type de fichier que vous voulez lire (film, musique ou photo).
6 Sélectionnez un fichier de film, de musique ou de photo à lire.
7 Lisez le fichier multimédia sur votre téléviseur.

Mise à jour du micrologiciel du téléviseur

* S'il s'agit de la première fois que le téléviseur est allumé depuis sa sortie d'usine, l'initialisation peut prendre quelques minutes.

1 **(Accueil) → (Paramètres) → (Tous les paramètres) → Général → À propos de ce téléviseur → Rechercher des mises à jour**
2 Vérifiez d'abord la version du logiciel, puis mettez-le à jour.
Si vous cochez la case « **Autoriser les mises à jour automatiques** », vous pouvez mettre à jour le logiciel automatiquement.



Configuration de Wi-Fi Direct



(Accueil) → (Paramètres) → (Tous les paramètres) → Réseau → Wi-Fi Direct

S'il n'y a pas de réseau local disponible, vous pouvez connecter un appareil mobile directement au téléviseur à l'aide de Wi-Fi Direct.
Grâce à **SmartShare**, vous pouvez partager des fichiers ou les écrans d'appareils connectés à **Wi-Fi Direct**.

1 Lorsque vous ouvrez le menu **Wi-Fi Direct**, une liste d'appareils disponibles apparaît.
2 Lorsque vous êtes invité(e) à demander une connexion, sélectionnez **OK**. **Wi-Fi Direct** est à présent connecté à votre téléviseur.

* Vous ne pouvez utiliser que les périphériques qui prennent en charge **Wi-Fi Direct**.

Configuration de Miracast

Miracast permet à un appareil mobile d'envoyer sans fil et de manière sécuritaire des vidéos et du contenu audio au téléviseur.

1 L'option **Miracast** doit être sur « **ON** » (activée) sur votre appareil mobile.
2 Lorsque votre téléviseur est détecté, sélectionnez-le sur vot re appareil mobile.
Une fois la connexion établie, l'écran de l'appareil apparaît sur le téléviseur.

Guía de configuración rápida del SMART TV

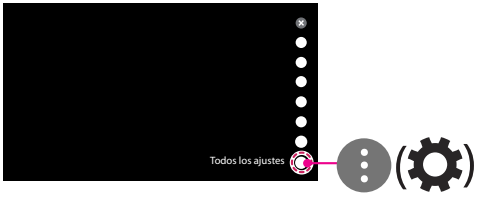
* La imagen que se muestra puede ser diferente a su televisor.
* La imagen que se muestra en una PC o un teléfono móvil puede variar según el sistema operativo (sistema operativo).
* Las posiciones de los íconos de la aplicación pueden variar en la plataforma según la versión del software.

Configuración de la red

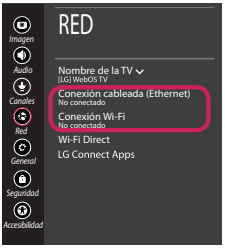
1 Presione el botón **(Inicio)** del control remoto para acceder al menú Inicio. Vaya al ícono **(Configuración)** y selecciónelo con el botón **Rueda (Aceptar)** del control remoto.



2 Vaya al ícono (⋮(⚙)) **(Todos los ajustes)** y selecciónelo con el botón **Rueda (Aceptar)** del control remoto.



3 Seleccione **Red** → **Conexión cableada (Ethernet)** o **Conexión Wi-Fi**.



4 El dispositivo intenta conectarse automáticamente a la red disponible (primero, la red cableada).
Cuando selecciona **Conexión Wi-Fi**, se muestra la lista de redes disponibles. Seleccione la red que desea usar.

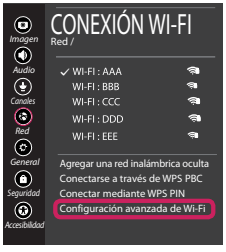


Para el AP inalámbrico (enrutador) que tiene el símbolo , debe ingresar la clave de seguridad.

5 Si la conexión es exitosa, se muestra "**Conectado a Internet**".



Puede verificar el estado de conexión en **Configuración avanzada de Wi-Fi**.





Resolución de problemas de red

1 Presione el botón **(Inicio)** del control remoto para acceder al menú Inicio. Vaya al ícono **(Configuración)** y selecciónelo con el botón **Rueda (Aceptar)** del control remoto.



2 Vaya al ícono (⋮)(⚙) **(Todos los ajustes)** y selecciónelo con el botón **Rueda (Aceptar)** del control remoto.



3 Seleccione **Red** → **Conexión cableada (Ethernet)** o **Conexión Wi-Fi** → **Configuración avanzada de Wi-Fi**.



Siga las instrucciones que están a continuación y que se relacionan con el estado de red.

Revise el televisor o el AP (enrutador).



Cuando aparece X al lado del televisor:

❶ Revise el estado de la conexión del TV, el Punto de Acceso (Router), y módem de cable.
❷ Apague y encienda en el siguiente orden: (Primero) el módem de cable, espere que el módem de cable se restablezca, (Segundo) el Punto de Acceso (Router), espere a que el Punto de Acceso (Router) se restablezca, (Tercero) la TV.
❸ Si usa una dirección IP estática, ingrésela directamente.
❹ Comuníquese con el proveedor de servicios de Internet o la empresa de AP (enrutador).

Revise el AP (enrutador) o consulte a su proveedor de servicios de Internet.



Cuando aparece X junto a la puerta de enlace:

❶ Desenchufe el cable de alimentación del AP (enrutador) e intente conectarlo después de 5 segundos.
❷ Inicialice (restablezca) el AP (enrutador).
❸ Comuníquese con el proveedor de servicios de Internet o la empresa de AP (enrutador).



Cuando aparece X junto a DNS:

❶ Desconecte el cable de alimentación del Punto de Acceso (Router), y del módem de cable , espere 5 segundos. Vuelva a conectar los cables de alimentación, y vuelva a intentar la conexión.
❷ Inicialice (Reset) el Punto de Acceso (Router), o el módem de cable.
❸ Verifique que la dirección MAC del TV/AP (enrutador) esté registrada con su proveedor de servicios de Internet. (La dirección MAC que se muestra en el panel derecho de la ventana de estado de red debe registrarse con su proveedor de servicios de Internet.)
❹ Consulte el sitio web del fabricante del AP (enrutador) para asegurarse de que su enrutador tenga instalada la última versión de firmware.

Instalación y configuración de SmartShare PC SW

1 Instale el programa SmartShare PC SW en su PC.

2 Vaya a ***www.lg.com***. Luego, seleccione su región.

3 Seleccione **Soporte**.

4 Select **Software y actualizaciones**. Then, select **SmartShare**.

5 Descargue el Software SmartShare PC e instálelo en su PC. Puede ejecutar el programa al finalizar la instalación.

NOTA

- El servicio **Smartshare** solo está disponible si el televisor y otros dispositivos están conectados a través de un solo AP (enrutador).

Conexión de SmartShare a un teléfono inteligente

1 Verifique que la conexión Wi-Fi esté activada en su teléfono inteligente. Para utilizar **SmartShare**, ambos dispositivos deben estar en la misma red local.

2 Instale y ejecute la aplicación para compartir contenido en su teléfono inteligente (se llama **LG TV Plus** en teléfonos LG).

3 Permita que su teléfono inteligente comparta archivos de contenido con otros dispositivos.

4 Abra la aplicación **Conector de Dispositivo**.
(Inicio) → Conector de Dispositivo → Teléfono Inteligente → COMPARTIR CONTENIDO.

5 Seleccione el tipo de archivo que desea reproducir (película, audio o foto).

6 Seleccione una película, música o archivo de fotografía para reproducir en el televisor.

7 Reproduzca el archivo multimedia para verlo y disfrutarlo en su televisor.

Actualización del firmware del televisor

* Cuando el televisor se enciende por primera vez después de que se envía de fábrica, la inicialización del televisor puede tardar unos minutos.

1 **(Inicio) → (Configuración) → (Todos los ajustes) → General → Acerca de este TV → BUSCAR ACTUALIZACIONES**

2 Después de verificar la versión del software, actualícela.
Si marca la opción "**Permitir Actualizaciones Automáticas**", puede actualizar el software automáticamente.



Configuración de Wi-Fi Direct



(Inicio) → (Configuración) → (Todos los ajustes) → Red → Wi-Fi Direct

Si no hay una red local disponible, puede conectar un dispositivo portátil directamente al televisor con Wi-Fi Direct.
Con **SmartShare**, puede compartir archivos o pantallas de dispositivos conectados a **Wi-Fi Direct**.

1 Cuando abre el menú **Wi-Fi Direct**, aparece una lista de los dispositivos disponibles.

2 Cuando se le indica que solicite conexión, seleccione **OK**. **Wi-Fi Direct** ahora está conectado a su televisor.

* Solo puede utilizar dispositivos compatibles con **Wi-Fi Direct**.

Configuraciones Miracast

Miracast permite que el dispositivo portátil envíe vídeos y sonidos al TV sin cables de

1 **Miracast** debe configurarse en "**ENCENDIDO**" en su dispositivo móvil.

2 Cuando se detecta el televisor, seleccione el dispositivo en su dispositivo portátil. Cuando se completa la conexión, aparece la pantalla del dispositivo en la pantalla del televisor.

Comuníquese con el Servicio de atención al cliente de LG si tiene algún problema.

Guia Rápido de Configuração SMART TV

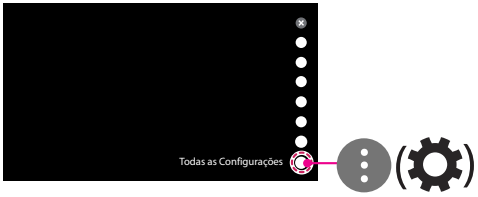
* As imagens neste guia podem ser diferentes da TV.
* As imagens do PC ou Telefone podem ser diferentes dependendo do sistema operacional.
* A posição dos ícones de Aplicativos podem variar na plataforma, dependendo da versão de software.

Ajustes de Rede

1 No controle remoto, pressione o botão **(Home)** para acessar o menu principal. No menu, selecione **(CONFIGURAÇÕES)** e pressione o botão **Scroll (OK)**.



2 Selecione (⋮)(⚙) **(Todas as Configurações)** e pressione o botão **Scroll (OK)**.



3 No menu selecione **Rede** → **Conexão com fio (Ethernet)** ou **Conexão da rede Wi-Fi**.



4 O dispositivo será conectado automaticamente em uma rede disponível (rede com fio em primeiro lugar).
Ao selecionar **Conexão da rede Wi-Fi**, uma lista de redes será disponibilizada. Selecione a rede desejada.

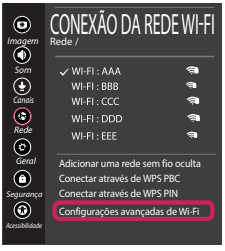


Para roteadores protegidos, o símbolo é exibido indicando a necessidade de senha para acessar a rede.

5 Caso a conexão esteja correta, a mensagem "**Conectado à Internet**" será exibida.



Caso deseje, verifique o status da conexão acessando a opção **Configurações avançadas de Wi-Fi**.



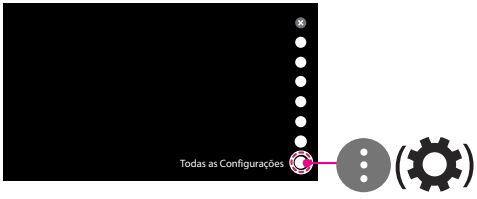


Problemas de Rede - Soluções

1 No controle remoto, pressione o botão **(Home)** para acessar o menu principal. No menu, selecione **(CONFIGURAÇÕES)** e pressione o botão **Scroll (OK)**.



3 Selecione (⋮)(⚙) **(Todas as Configurações)** e pressione o botão **Scroll (OK)**.



4 Selecione **Rede** → **Conexão com fio (Ethernet)** ou **Conexão da rede Wi-Fi** → **Configurações avançadas de Wi-Fi**.



As instruções abaixo servem para verificar o status da conexão de rede.

Verifique a TV ou o Roteador.



Quando o **X** estiver próximo do ícone **TV**:

1. Verifique o status da conexão na TV, Roteador e Modem.
2. Desligue os equipamentos na ordem: (1º) o modem, aguarde o modem reiniciar, (2º) o roteador, aguarde o roteador reiniciar e (3º) a TV.
3. Nos casos de endereço IP estático será necessário inseri-lo manualmente.
4. Se o problema persistir, contate o provedor de internet ou o fabricante do roteador.

Verifique o roteador ou contate o provedor de internet.



Quando o **X** estiver próximo do ícone **Gateway**:

1. Desconecte o cabo de força da tomada do roteador ou modem, aguarde 5 segundos e torne a conectar.
2. Reinicie o roteador e o modem.
3. Contate seu provedor de internet e o fabricante do roteador.



Quando o **X** estiver próximo do ícone **DNS**:

1. Desconecte o cabo de força da tomada do roteador ou modem, aguarde 5 segundos e torne a conectar.
2. Reinicie o roteador e o modem e tente reconectar
3. Verifique se o endereço MAC da TV/Roteador está registrado no seu provedor de internet (o endereço MAC é exibido na janela de status de rede. Envie este número ao seu provedor para registrá-lo).
4. Verifique no site do fabricante do seu roteador se a última versão do firmware está instalada.

Instalar & Configurar o SmartShare PC Software

1 Instale o SmartShare PC em seu computador.

2 Acesse ***www.lg.com***. Se necessário, selecione seu país ou região.

3 Selecione **Suporte**.

4 Selecione **Software & Drivers**. Então, selecione **SmartShare**.

5 Faça o download e instale o software. Após a finalização da instalação será possível executar e configurar o programa.

NOTE

- A função **Smartshare** está disponível na TV e em dispositivos conectados ao mesmo roteador.

SmartShare - Conectando um Smartphone

1 Ative a conexão Wi-Fi no Smartphone. Para conectar usando o **SmartShare**, os dispositivos (TV e Smartphone) devem estar conectados na mesma rede.

2 No Smartphone, instale ou execute o aplicativo de compartilhamento (se desejar instale o aplicativo **LG TV Plus**).

3 Ative o compartilhamento para compartilhar conteúdo com outros dispositivos.

4 Acesse **(Home)** e execute o aplicativo **Conector de Dispositivos**. No menu acesse a opção **Smartphone → COMPARTILHAMENTO DE CONTEÚDO**.

5 Selecione o tipo de arquivo desejado (filme, música ou foto).

6 Selecione o conteúdo desejado para reproduzi-lo na TV.

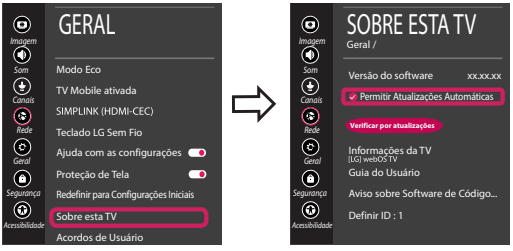
7 Inicie a reprodução do conteúdo selecionado na TV.

Atualizando o Software da TV

* Ao ligar a TV pela primeira vez, a inicialização do aparelho pode levar alguns minutos.

1 **(Home) → (CONFIGURAÇÕES) → (Todas as Configurações) → Geral → Sobre esta TV → VERIFICAR POR ATUALIZAÇÕES**

2 Após verificar, execute o processo de atualização.
Se desejar, selecione a opção "**Permitir Atualizações Automáticas**", para atualizar o software da TV automaticamente.



Ajustar Wi-Fi Direct



(Home) → (CONFIGURAÇÕES) → (⋮) (Todas as Configurações) → Rede → Wi-Fi Direct

Caso uma rede local não esteja disponível, conecte-se diretamente a TV usando a função Wi-Fi Direct.
Usando **SmartShare**, será possível compartilhar telas ou arquivos usando **Wi-Fi Direct**.

1 Ao selecionar o menu **Wi-Fi Direct**, uma lista de dispositivos disponíveis será exibida.

2 Quando a solicitação de conexão for exibida, selecione **Sim**. O dispositivo **Wi-Fi Direct** estará conectado com sua TV.

* Somente dispositivos **Wi-Fi Direct** estarão disponíveis para conexão.

Ajustar Miracast

Miracast permite o compartilhamento de áudio e vídeo sem fio do dispositivo para a TV.

1 Ative a função **Miracast** no seu dispositivo.

2 Quando a TV detectar, selecione o seu dispositivo.
Quando a conexão estiver completa a tela do dispositivo será exibida na TV.

Por favor, entre em contato com o SAC para mais informações.

LG
Life's Good

OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

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

www.lg.com

ENGLISH

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	9E	LIVE MENU	R/C Button
0F	TV, TV/RAD	R/C Button	7A	User Guide	R/C Button
10 - 19	* Number Key 0 - 9	R/C Button	7C	Smart / Home	R/C Button
1A	Q.View / Flashback	R/C Button	7E	SIMPLINK	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8E	►► (Forward)	R/C Button
20	Text (Teletext)	R/C Button	8F	◄◄ (Rewind)	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AA	Info	R/C Button
28	Return (BACK)	R/C Button	AB	Program Guide	R/C Button
30	AV (Audio / Video) Mode	R/C Button	B0	► (Play)	R/C Button
39	Caption/Subtitle	R/C Button	B1	■ (Stop / File List)	R/C Button
40	Λ (Arrow Key / Cursor Up)	R/C Button	B5	RECENT	R/C Button
41	V (Arrow Key / Cursor Down)	R/C Button	BA	II (Freeze / Slow Play / Pause)	R/C Button
42	My Apps	R/C Button	BB	Soccer	R/C Button
43	Menu / Settings	R/C Button	BD	● (REC)	R/C Button
44	OK / Enter	R/C Button	DC	3D	R/C Button
45	Q.Menu	R/C Button	99	AutoConfig	R/C Button
4C	List, - (ATSC Only)	R/C Button	9F	App / *	R/C Button
4D	PICTURE	R/C Button	9B	TV / PC	R/C Button
52	SOUND	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.

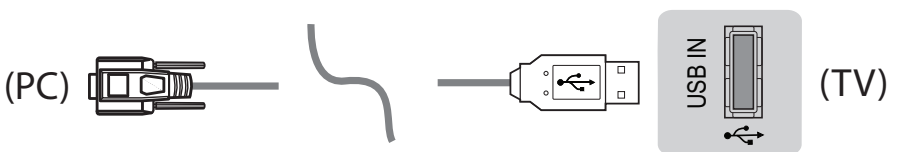
Note: The type of control port on the TV can be different between model series.

* 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

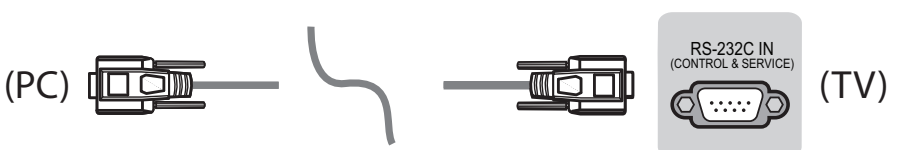


- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

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.

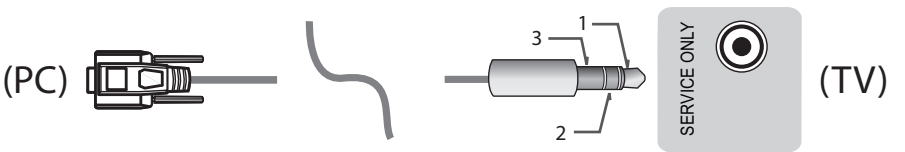
ENGLISH

Phone jack Type

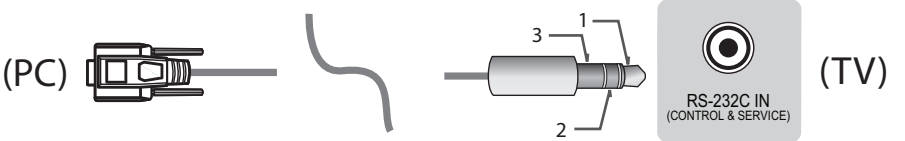
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.

* For other models, connect to the USB port.

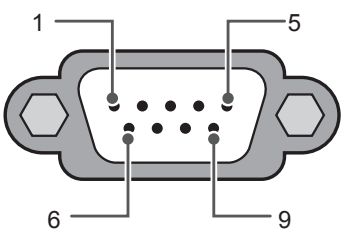
* The connection interface may differ from your TV.



- or



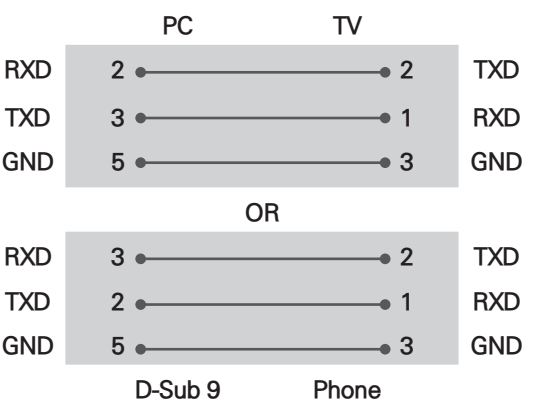
Customer Computer



RS-232C
(Serial port)

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.12)
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 ь Decimal)

* When you enter the [data] in hexadecimal, refer to following conversion table.
* Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

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

* Commands may work differently depending on model and signal.

01. Power (Command: k a)

► To control Power *On or Off of the set.

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

Data 00 : Power Off 01 : *Power On

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

► To Show TV is Power On or *Off

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

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

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

02. Aspect Ratio (Command: k c)
(Main Picture Size)

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

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

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

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

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

03. Screen Mute (Command: k d)

► To select screen mute on/off.

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

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

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

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

04. Volume Mute (Command: k e)

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

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

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

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

05. Volume Control (Command: k f)

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

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

Data Min : 00 to Max : 64

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

06. Contrast (Command: k g)

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

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

Data Min : 00 to Max : 64

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

07. Brightness (Command: k h)

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

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

Data Min : 00 to Max : 64

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

08. Color/Colour (Command: k i)

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

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

Data Min : 00 to Max : 64

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

09. Tint (Command: k j)

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

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

Data Red : 00 to Green : 64

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

10. Sharpness (Command: k k)

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

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

Data Min : 00 to Max : 32

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

11. OSD Select (Command: k l)

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

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

Data 00 : OSD off 01 : OSD on

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

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

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

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

Data 00 : Lock off 01 : Lock on

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

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

13. Treble (Command: k r)

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

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

Data Min : 00 to Max : 64

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

* (Depending on model)

14. Bass (Command: k s)

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

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

Data Min : 00 to Max : 64

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

* (Depending on model)

15. Balance (Command: k t)

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

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

Data Min : 00 to Max : 64

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

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

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

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

Data Min : 00 to Max : 64

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

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

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

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

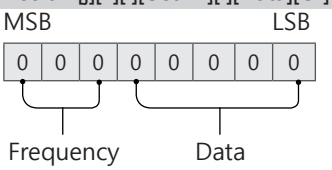
Data Min : 02: Orbiter
08: Normal
20: Color(Colour) Wash

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

18. Equalizer (Command : j v)

► Adjust EQ of the set.

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



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1st Band	0	0	0	0	0	0(decimal)
0	0	1	2nd Band	0	0	0	0	1	1(decimal)
0	1	0	3rd Band	...	...	...	...	...	...
0	1	1	4th Band	1	0	0	1	1	19(decimal)
1	0	0	5th Band	1	0	1	0	1	20(decimal)

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

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

19. Energy Saving (Command: j q)

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

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

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

* (Depending on model)

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

20. Tune Command (Command: m a)

* This command may work differently depending on model and signal.

• For Europe, Mid-East, Colombia, Asia except South Korea and Japan Model

► Select channel to following physical number.

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

* Analog Antenna/Cable

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

Data 02 : Input Source (Analog)
- 00 : Antenna TV (ATV)
- 80 : Cable TV (CATV)

* Digital Antenna/Cable/Satellite

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

Data 02 : Input Source (Digital)
- 10 : Antenna TV (DTV)
- 20 : Antenna Radio (Radio)
- 40 : Satellite TV (SDTV)
- 50 : Satellite Radio (S-Radio)
- 90 : Cable TV (CADTV)
- a0 : Cable Radio (CA-Radio)

* Tune Command Examples:

1. Tune to the Analog antenna (PAL) Channel 10.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 10 = 00 0a
   Data 02 = Analog Antenna TV = 00
   Result = **ma 00 00 0a 00**

2. Tune to the digital antenna (DVB-T) Channel 01.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 1 = 00 01
   Data 02 = Digital Antenna TV = 10
   Result = **ma 00 00 01 10**

3. Tune to the satellite (DVB-S) Channel 1000.
   Set ID = All = 00
   Data 00 & 01 = Channel Data is 1000 = 03 E8
   Data 02 = Digital Satellite TV = 40
   Result = **ma 00 03 E8 40**

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][x][a][ ][Set ID][ ][NG][Data 00][x]

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

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

Transmission [m][a][ ][0][ ][Data00][ ][Data01]
[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]

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

* Analog Antenna/Cable

Data 00 : Physical Channel Number
- Antenna (ATV) : 02~45 (Decimal: 2 ~ 69)
- Cable (CATV) : 01, 0E~7D (Decimal : 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number
Data 01 & 02: xx (Don't care)
Data 03 & 04: xx (Don't care)
Data 05: Input Source (Analog)
- 00 : Antenna TV (ATV)
- 01 : Cable TV (CATV)

* Digital Antenna/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number
Data 01 : High byte Channel Data
Data 02 : Low byte Channel Data
- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number
Data 03 : High byte Channel Data
Data 04 : Low byte Channel Data

Data 05 : Input Source (Digital)
- 02 : Antenna TV (DTV) – Use Physical Channel Number
- 06 : Cable TV (CADTV) – Use Physical Channel Number
- 22 : Antenna TV (DTV) – Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) - Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 66 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)
- 0b : Cable DTV Plus – Use Physical Channel Number
- 2b : Cable DTV Plus – Don't Use Physical Channel Number
- 4b : Cable DTV Plus – Use Physical/Major Channel Number Only (One Part Channel)
- 6b : Cable DTV Plus – 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)
- 42 : Antenna TV (DTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 62 : Antenna TV (DTV) – Use Major Channel Number Only (One Part Channel)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

* Tune Command Examples:
1 Tune to the digital antenna (ISDB-T) channel 17-1.
   Set ID = All = 00
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 17 = 00 11
   Data 03 & 04 = Minor/Branch is 1 = 00 01
   Data 05 = Digital Antenna TV = 02
   Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.
   Set ID = All = 00
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 30 = 00 1E
   Data 03 & 04 = Don't Care = 00 00
   Data 05 = Digital BS TV = 07
   Total = **ma 00 00 00 1E 00 00 07**

* This feature is varied based on the model.

Ack [a][ ][Set ID][ ][OK][Data 00][Data 01]
[Data 02][Data 03][Data 04][Data 05]
[x][a][ ][Set ID][ ][NG][Data 00][x]

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

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

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

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

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

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

22. Key (Command: m c)

► To send IR remote key code.

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

Data Key code - p.2.

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

23. Control Backlight (Command: m g)

• For LCD TV / LED TV

► To control the backlight.

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

Data Min : 00 to Max : 64

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

Control Panel Light (Command: m g)

• For Plasma TV

► To control the panel light.

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

Data Min : 00 to Max : 64

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

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

► To select input source for main picture.

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

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

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

* This function depends on model and signal.

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

► To change 3D mode for TV.

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

* (Depending on model)

Data Structure

[Data 00] 00 : 3D On
01 : 3D Off
02 : 3D to 2D
03 : 2D to 3D

[Data 01] 00 : Top and Bottom
01 : Side by Side
02 : Check Board
03 : Frame Sequential
04 : Column interleaving
05 : Row interleaving

[Data 02] 00 : Right to Left
01 : Left to Right

[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14
(*transmit by Hexadecimal code)

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

[Data 00]	[Data 01]	[Data 02]	[Data 03]
00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

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

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

► To change 3D option for TV.

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

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

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

1) When [Data 00] is 00
00 : Right to Left
01 : Left to Right

2) When [Data 00] is 01, 02
Data Min: 0 - Max: 14 (*transmit by Hexadecimal code)
Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)
* This option works when 3D Mode (Genre) is manual only.

3) When [Data 00] is 06, 07
00 : Off
01 : On

4) When [Data 00] is 08
00 : Revert to 3D video from 3D-to-2D converted 2D video
01 : Change 3D video to 2D video, except 2D-to-3D video
* If conversion condition doesn't meet, command is treated as NG.

5) When [Data 00] is 09

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

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

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

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

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

Data 01 : To set Auto Configure

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


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