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

OLED65G6P
OLED77G6P

www.lg.com
P/NO : MFL69383631 (1606-REV02)
Important Safety Instructions

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

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

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

**WARNING/CAUTION**

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

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

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

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

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

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- **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.

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

• Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.

• Keep the packing anti-moisture material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed, induce vomiting and go to the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.

• CAUTION concerning the Power Cord (Can differ by country):
Check the specification page of this owner’s manual to be certain concerning current requirements. Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, and have the cord replaced with an exact replacement part by an authorized servicer. 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 with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.

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

• Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
• **Grounding**  
(Except for devices which are not grounded.)  
Ensure that you connect the earth ground wire to prevent possible electric shock (i.e., a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet).  
If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.

![Circuit Breaker Diagram](image)

• As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.  
• Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.  
• **Outdoor Antenna Grounding**  
(Can differ by country):  
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.  
**Antenna grounding according to the National Electrical Code, ANSI/NFPA 70**

![Antenna Grounding Diagram](image)

• **Cleaning**  
When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners, or benzene.  
• **Moving**  
Make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV.  
• **Ventilation**  
Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials while plugged in. Do not install in excessively dusty places.  
• If you smell smoke or other odors coming from the TV, unplug the power cord and contact an authorized service center.  
• Keep the product away from direct sunlight.  
• Never touch this apparatus or antenna during a lightning storm.  
• When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.  
• Do not allow an impact shock or any objects to fall into the product, and do not drop anything onto the screen.  
• **DISCONNECTING THE DEVICE FROM THE MAIN POWER**  
The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.  
• Make sure the power cord is connected securely to the power plug on the TV. (Depending upon model)

![Power Plug Image](image)

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

• Dot Defect
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.

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

Electrical circuit humming/panel buzzing A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending upon the product. This generated sound does not affect the performance and reliability of the product.

• Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot. This does not affect the performance of the product or cause defects in the product.
• Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
• If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV’s performance. Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.
• Displaying a still image for a prolonged time may cause image sticking. Avoid displaying a fixed image on the TV screen for a long period of time.
• Some horizontal lines may appear when the Clear Panel Noise feature is performed. It is normal and there is no need to be concerned.

Viewing 3D Imaging
(For 3D models)

⚠️ CAUTION
• Guardians should not leave children unsupervised who are watching a 3D video. Guardians should make children stop watching the video and take a rest if they experience eye fatigue, headache, or dizziness.
• When viewing a 3D video, some may experience discomfort such as a headache, dizziness, fatigue, or blurred vision. In this case, stop watching the 3D video and take a rest.
• If you watch a 3D video for a long time, you may experience eye fatigue. In this case, stop watching the 3D video and take a rest.
• Only use LG 3D glasses. Otherwise, you may not be able to view 3D videos properly.
• Do not use 3D glasses instead of your normal glasses, sunglasses, or protective goggles. Place the 3D glasses over your normal eye ware.
• Do not keep your 3D glasses in extremely high or low temperatures. It will cause deformation.
• Do not use the 3D glasses while walking or moving around. It may cause an accident or injury.
• Be careful not to poke your eye with the frames of the 3D glasses.
• Do not watch 3D content if you have photosensitive seizures, epilepsy, or heart disease.
Preparing

NOTE

- 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 items supplied with your product may vary depending upon the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) width.
- Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV’s USB port.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.

Recommended HDMI cable types (3 m or less)
- High-Speed HDMI® cable
- High-Speed HDMI®/TM cable with Ethernet

CAUTION

- Do not use any unapproved items to ensure the safety and product’s lifespan.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Some models appear to have a thin film on the screen. It is actually part of the screen; do not remove it.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- Do not fasten the screws with excessive force; otherwise, they may be worn out and become loose.
- 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.

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)

<table>
<thead>
<tr>
<th>AG-F***</th>
<th>AG-F***DP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cinema 3D Glasses</td>
<td>Dual Play Glasses</td>
</tr>
<tr>
<td>AN-MR650</td>
<td>AN-VC550</td>
</tr>
<tr>
<td>Magic Remote</td>
<td>Smart Camera</td>
</tr>
</tbody>
</table>
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.

⚠️ CAUTION

• Avoid touching the screen at all times, as this may result in damage to the screen.
• Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
• Do not move the TV by holding the cable holders, as the cable holders may break, and injuries and damage to the TV may occur. (Depending upon model)
• Make sure to attach the AV box fixing supporter to the AV box before you lift the product and move. Moving the product without attaching the AV box fixing supporter to the AV box first may cause injury to your fingers.
Using the Button

You can simply operate the TV functions, pressing or moving the button.

![Joystick Button](image)

**Basic Functions**

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Power On" /></td>
<td>Power On (Press)</td>
</tr>
<tr>
<td><img src="image" alt="Power Off" /></td>
<td>Power Off (Press and Hold)*1</td>
</tr>
<tr>
<td><img src="image" alt="Volume Control" /></td>
<td>Volume Control</td>
</tr>
<tr>
<td><img src="image" alt="Channels Control" /></td>
<td>Channels Control</td>
</tr>
</tbody>
</table>

*1 All running apps will close.

Adjusting the Menu

When the TV is turned on, press button one time. You can adjust the Menu items pressing or moving the buttons.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Turns the power off." /></td>
<td>Turns the power off.</td>
</tr>
<tr>
<td><img src="image" alt="Accesses the setting menu." /></td>
<td>Accesses the setting menu.</td>
</tr>
<tr>
<td><img src="image" alt="Clears on-screen displays and returns to TV viewing." /></td>
<td>Clears on-screen displays and returns to TV viewing.</td>
</tr>
<tr>
<td><img src="image" alt="Changes the input source." /></td>
<td>Changes the input source.</td>
</tr>
</tbody>
</table>

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.

![Mounting on a Table](image)

2. Connect the power cord to a wall outlet.

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

Securing the TV to a Wall (optional)

(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.

⚠️ CAUTION
- Make sure that children do not climb on or hang on the TV.
NOTE
• Use a platform or cabinet that is strong and large enough to support the TV securely.
• Brackets, bolts, and ropes are optional. You can obtain additional accessories from your local dealer.

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.

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>OLED65G6P</th>
<th>OLED77G6P</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA (A x B)</td>
<td>400 x 200</td>
<td>600 x 300</td>
</tr>
<tr>
<td>Standard screw</td>
<td>M6</td>
<td>M8 (4 EA) / M4 (2 EA)</td>
</tr>
<tr>
<td>Number of screws</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Wall mount bracket (optional)</td>
<td>OTW420B</td>
<td>OTW630B</td>
</tr>
</tbody>
</table>

NOTE
• Fold the AV box before installing the TV on a wall mount by performing the stand attachment in reverse.
• To install the wall mount, switch the selector to WALL TYPE as shown in the following illustration. (For OLED77G6P)

CAUTION
• Fold the AV box and attach the AV box fixing supporter / wall mount spacer to the AV box before installing the product on a wall mount. (For OLED65G6P)

Provided Item

<table>
<thead>
<tr>
<th>Provided Item</th>
<th>X 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Box Fixing Supporter</td>
<td></td>
</tr>
</tbody>
</table>

(For OLED77G6P)

<table>
<thead>
<tr>
<th>Provided Item</th>
<th>X 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV Box Fixing Supporter / Wall Mount Spacer</td>
<td></td>
</tr>
<tr>
<td>Wall Mount Spacer</td>
<td></td>
</tr>
</tbody>
</table>

(For OLED65G6P)
Connections (Notifications)

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

NOTE
• If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information 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.
• Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
• 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.
• The TV may be capable of operating without a set-top from a multichannel video programming distributor (MVPD).

Connecting to an Antenna or Cable

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

⚠️ CAUTION
• Make sure not to bend the copper wire of the RF cable.

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

NOTE
• Use a signal splitter to use 2 TVs or more.
• DTV Audio Supported Codec: MPEG, Dolby Digital
• Direct ULTRA HD broadcast is unavailable in areas without an ULTRA HD signal.
• 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. Depending upon the model, a cable may not be provided.

NOTE
• General > HDMI ULTRA HD Deep Color:
  - On : Support 4K @ 60 Hz (4:4:4, 4:2:2, 4:2:0)
  - Off : Support 4K @ 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, connect the device to a different HDMI port or 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.
• HDMI Audio Supported Format:
  DTS (44.1 kHz / 48 kHz),
  AC3 (32 kHz / 44.1 kHz / 48 kHz),
  PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz) (Depending upon model)
Slim 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 replace coin batteries, turn the battery cover counterclockwise by using a coin. Then, take the battery cover. Insert and fix the battery (CR2032) with the + facing forward. And, put the battery cover on the remote control and turn it clockwise to close. To remove the coin batteries, perform the installation actions in reverse. When in use, it should be pointed in the direction of the TV’s remote sensor.

A

(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.

+ VOL Adjusts the volume level.

(MUTE) Mutes all sounds.

* Video descriptions function will be enabled.

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

▲ CH ▼ Scrolls through the saved channels.

B

BACK Returns to the previous screen.

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

(Home) Accesses the Home menu.

(INPUT) Changes the input source.

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

(↑↓←→) (Navigation buttons) Scrolls through menus or options. (up/down/left/right)

OK Selects menus or options and confirms your input.

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

Battery Installation

⚠️ WARNING

DO NOT INGEST BATTERY. CHEMICAL BURN HAZARD.

⚠️ CAUTION

- The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, incinerate, or heat above 100 °C (212 °F). Replace the battery part no. CR2032 only. Use of another battery may present a risk of fire or explosion. Dispose of used battery. Keep battery away from children. Do not disassemble or dispose of in fire.
- [The remote control supplied with] This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- If you have long nails, do not open the battery cover by using your finger. Or else, your nail could break.
Magic Remote Functions

( Depending upon model )

When the message Magic remote battery is low. Change the battery. is displayed, replace the battery. To install batteries, open the battery cover, replace batteries (1.5 V AA) matching + and – ends to the label inside the compartment, and close the battery cover. Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution. Be sure to point the remote control at the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse.

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

A

• (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 button 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.

B

• Accesses the Universal Control Menu in some regions.

B

• VOL Adjusts the volume level.

• (MUTE) Mutes all sounds.

• * Video descriptions function will be enabled.

• SAP (Secondary Audio Program) Feature can also be enabled by pressing the key.

• CH Scrolls through the saved channels.

• (Home) Accesses the Home menu.

RECENT * Shows the previous history.

• (Search) Search for content such as channels, movies and other videos, or perform a web search by entering your search terms in the search box.

• (Voice recognition) * Network connection is required to use the voice recognition function.

1 Press the (Voice recognition) button.

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

STB MENU Displays the set-top box Home menu.

(When you are not watching with a set-top box: the set-top box screen is displayed.)
How to Register the Magic Remote

To use the Magic Remote, first pair it with your TV.
1  Put batteries into the Magic Remote and turn the TV on.
2  Point the Magic Remote at your TV and press the (Wheel) (OK) on the remote control.
• If the TV fails to register the Magic Remote, try again after turning the TV off and back on.

How to Deregister the Magic Remote

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

Licenses

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

Open Source Software Notice

Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.

External Control Device Setup

To obtain the external control device setup information, please visit www.lg.com.
(Depending upon model)
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 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 Sleep Timer / Timer Power Off feature is activated in the Timers settings.
  - If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Specifications

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

Television System

ATSC, NTSC-M, 64 & 256 QAM

Program Coverage

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 %

Wireless Module (LGSBWAC61) Specifications

<table>
<thead>
<tr>
<th>Wireless LAN (IEEE 802.11a/b/g/n/ac)</th>
<th>Frequency Range</th>
<th>Output Power (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2400 to 2483.5 MHz</td>
<td>15 dBm</td>
</tr>
<tr>
<td></td>
<td>5150 to 5725 MHz</td>
<td>16 dBm</td>
</tr>
<tr>
<td></td>
<td>5725 to 5850 MHz</td>
<td>12.5 dBm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bluetooth</th>
<th>Frequency Range</th>
<th>Output Power (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2400 to 2483.5 MHz</td>
<td>10 dBm</td>
</tr>
</tbody>
</table>

- 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: BEJLGSBWAC61
  IC: 2703H-LGSBWAC61
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 interference; and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

FCC RF Radiation Exposure Statement
[For having wireless function (WLAN, Bluetooth,...)]
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement
(For Canada)
[For having wireless function (WLAN, Bluetooth,...)]
This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:
1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement
(For Canada)
[For having wireless function (WLAN, Bluetooth,...)]
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna & 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.
WARNING

(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 specified for point-to-point and non-point-to-point operation as appropriate; and
4 The 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) shall be clearly indicated.(devices operating in the band 5250-5350 MHz with a maximum e.i.r.p. greater than 200 mW)
5 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

<table>
<thead>
<tr>
<th>~</th>
<th>Refers to alternating current (AC).</th>
</tr>
</thead>
<tbody>
<tr>
<td>———</td>
<td>Refers to direct current (DC).</td>
</tr>
<tr>
<td></td>
<td>Refers to class II equipment.</td>
</tr>
<tr>
<td>☀</td>
<td>Refers to stand-by.</td>
</tr>
<tr>
<td></td>
<td>Refers to “ON” (power).</td>
</tr>
<tr>
<td>⚡</td>
<td>Refers to dangerous voltage.</td>
</tr>
</tbody>
</table>

LG Recycling Policy

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

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

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

TUNE IN TO SAFETY

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

WALL OR CEILING MOUNT YOUR TELEVISION

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

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

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

CE.org/safety
Declaration of Conformity

Trade Name  LG
Model  OLED65G6P-U, OLED77G6P-U
Responsible Party  LG Electronics Inc.
Address  1000 Sylvan Ave.
          Englewood Cliffs NJ 07632
          U.S.A
TEL  201 - 266 - 2534

The model and serial numbers of the TV are located on the back and one side of the TV. Record them below should you ever need service.

MODEL  

SERIAL  

LG Customer Information Center

For inquiries or comments, visit www.lg.com or call:
1-800-984-6306  USA
1-888-542-2623  CANADA

Register your product online!
www.lg.com
Please read this manual carefully before operating the set and retain it for future reference.
# KEY CODES

- This feature is not available for all models.

<table>
<thead>
<tr>
<th>Code (Hexa)</th>
<th>Function</th>
<th>Note</th>
<th>Code (Hexa)</th>
<th>Function</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>CH +, PR +</td>
<td>R/C Button</td>
<td>53</td>
<td>List</td>
<td>R/C Button</td>
</tr>
<tr>
<td>01</td>
<td>CH -, PR -</td>
<td>R/C Button</td>
<td>5B</td>
<td>Exit</td>
<td>R/C Button</td>
</tr>
<tr>
<td>02</td>
<td>Volume +</td>
<td>R/C Button</td>
<td>60</td>
<td>PIP(AD)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>03</td>
<td>Volume -</td>
<td>R/C Button</td>
<td>61</td>
<td>Blue</td>
<td>R/C Button</td>
</tr>
<tr>
<td>06</td>
<td>&gt; (Arrow Key / Right Key)</td>
<td>R/C Button</td>
<td>63</td>
<td>Yellow</td>
<td>R/C Button</td>
</tr>
<tr>
<td>07</td>
<td>&lt; (Arrow Key / Left Key)</td>
<td>R/C Button</td>
<td>71</td>
<td>Green</td>
<td>R/C Button</td>
</tr>
<tr>
<td>08</td>
<td>Power</td>
<td>R/C Button</td>
<td>72</td>
<td>Red</td>
<td>R/C Button</td>
</tr>
<tr>
<td>09</td>
<td>Mute</td>
<td>R/C Button</td>
<td>79</td>
<td>Ratio / Aspect Ratio</td>
<td>R/C Button</td>
</tr>
<tr>
<td>0B</td>
<td>Input</td>
<td>R/C Button</td>
<td>91</td>
<td>AD (Audio Description)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>0E</td>
<td>SLEEP</td>
<td>R/C Button</td>
<td>9E</td>
<td>LIVE MENU</td>
<td>R/C Button</td>
</tr>
<tr>
<td>0F</td>
<td>TV, TV/RAD</td>
<td>R/C Button</td>
<td>7A</td>
<td>User Guide</td>
<td>R/C Button</td>
</tr>
<tr>
<td>10 - 19</td>
<td>* Number Key 0 - 9</td>
<td>R/C Button</td>
<td>7C</td>
<td>Smart / Home</td>
<td>R/C Button</td>
</tr>
<tr>
<td>1A</td>
<td>Q.View / Flashback</td>
<td>R/C Button</td>
<td>7E</td>
<td>SIMPLINK</td>
<td>R/C Button</td>
</tr>
<tr>
<td>1E</td>
<td>FAV (Favorite Channel)</td>
<td>R/C Button</td>
<td>8E</td>
<td>►► (Forward)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>20</td>
<td>Text (Teletext)</td>
<td>R/C Button</td>
<td>8F</td>
<td>◀◀ (Rewind)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>21</td>
<td>T. Opt (Teletext Option)</td>
<td>R/C Button</td>
<td>AA</td>
<td>Info</td>
<td>R/C Button</td>
</tr>
<tr>
<td>28</td>
<td>Return (BACK)</td>
<td>R/C Button</td>
<td>AB</td>
<td>Program Guide</td>
<td>R/C Button</td>
</tr>
<tr>
<td>30</td>
<td>AV (Audio / Video) Mode</td>
<td>R/C Button</td>
<td>B0</td>
<td>▶ (Play)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>39</td>
<td>Caption/Subtitle</td>
<td>R/C Button</td>
<td>B1</td>
<td>■ (Stop / File List)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>40</td>
<td>Λ (Arrow Key / Cursor Up)</td>
<td>R/C Button</td>
<td>B5</td>
<td>RECENT</td>
<td>R/C Button</td>
</tr>
<tr>
<td>41</td>
<td>V (Arrow Key / Cursor Down)</td>
<td>R/C Button</td>
<td>BA</td>
<td>II (Freeze / Slow Play / Pause)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>42</td>
<td>My Apps</td>
<td>R/C Button</td>
<td>BB</td>
<td>Soccer</td>
<td>R/C Button</td>
</tr>
<tr>
<td>43</td>
<td>Menu / Settings</td>
<td>R/C Button</td>
<td>BD</td>
<td>● (REC)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>44</td>
<td>OK / Enter</td>
<td>R/C Button</td>
<td>DC</td>
<td>3D</td>
<td>R/C Button</td>
</tr>
<tr>
<td>45</td>
<td>Q.Menu</td>
<td>R/C Button</td>
<td>99</td>
<td>AutoConfig</td>
<td>R/C Button</td>
</tr>
<tr>
<td>4C</td>
<td>List, - (ATSC Only)</td>
<td>R/C Button</td>
<td>9F</td>
<td>App / *</td>
<td>R/C Button</td>
</tr>
<tr>
<td>4D</td>
<td>PICTURE</td>
<td>R/C Button</td>
<td>9B</td>
<td>TV / PC</td>
<td>R/C Button</td>
</tr>
<tr>
<td>52</td>
<td>SOUND</td>
<td>R/C Button</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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

(PC) ![USB Cable](image)

(TV)

• 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.

(PC) ![RS-232C Cable](image)

(TV)

The connection interface may differ from your TV.
Phone jack Type

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

Customer Computer

RS-232C configurations

3-Wire Configurations (Not standard)

<table>
<thead>
<tr>
<th></th>
<th>PC</th>
<th>TV</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXD</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TXD</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>GND</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RXD</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>TXD</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>GND</td>
<td>5</td>
<td>3</td>
</tr>
</tbody>
</table>

D-Sub 9 Phone

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)

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

* 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 b 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.

<table>
<thead>
<tr>
<th>Hexadecimal</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 : 0</td>
<td>0</td>
</tr>
<tr>
<td>01 : 1</td>
<td>1</td>
</tr>
<tr>
<td>02 : 2</td>
<td>2</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>0A : 10</td>
<td>10</td>
</tr>
<tr>
<td>0B : 11</td>
<td>11</td>
</tr>
<tr>
<td>0C : 12</td>
<td>12</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>0F : 15</td>
<td>15</td>
</tr>
<tr>
<td>10 : 16</td>
<td>16</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>01 00 : 256</td>
<td>256</td>
</tr>
<tr>
<td>01 01 : 257</td>
<td>257</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>01 0F : 263</td>
<td>263</td>
</tr>
<tr>
<td>02 00 : 256</td>
<td>256</td>
</tr>
<tr>
<td>02 01 : 257</td>
<td>257</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>02 0F : 263</td>
<td>263</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>
* 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]

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]
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 Min : 00 to Max : 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]

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]

<table>
<thead>
<tr>
<th>MSB</th>
<th>LSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>00</td>
<td>00</td>
</tr>
<tr>
<td>00</td>
<td>00</td>
</tr>
</tbody>
</table>

Frequency Data
EXTERNAL CONTROL DEVICE SETUP

---

### 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>
```

#### Data

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

* (Depending on model)

#### Acknowledgement

```
[ack] [Set ID] [OK/NG] [Data] [x]
```

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

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

- For South Korea, North/Latin America except Colombia Model
  - To tune channel to following physical/major/minor number.

#### Transmission

```
m a <Set ID> [Data]00 [Data]01 [Data]02 [Cr]
```

#### Digital Channels

- 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.

#### Acknowledgement

```
[a] [Set ID] [OK] [Data 00] [Data 01] [Data 02] [x]
```

* 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`

#### Analog Antenna/Cable

```
[Data]00 [Data]01 [Data]02 [Data]03 [Data]04 [Data]05 [Cr]
```

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

* Analog Antenna/Cable

#### Acknowledgement

```
[a] [Set ID] [OK/NG] [Data 00] [Data 01]
```

* Digital Antenna/Cable/Satellite

---

<table>
<thead>
<tr>
<th>Frequency</th>
<th>1st Band</th>
<th>2nd Band</th>
<th>3rd Band</th>
<th>4th Band</th>
<th>5th Band</th>
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<tr>
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<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0 1</td>
<td>1 0 1</td>
<td>2 0 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>1st Band</th>
<th>2nd Band</th>
<th>3rd Band</th>
<th>4th Band</th>
<th>5th Band</th>
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<tbody>
<tr>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0 0</td>
<td>0 0 1</td>
<td>1 0 1</td>
<td>2 0 1</td>
</tr>
</tbody>
</table>

**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 (CATV)
  - a0 : Cable Radio (CA-Radio)

---

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

---

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

**Digital Antenna/Cable/Satellite**

---

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)
**EXTERNAL CONTROL DEVICE SETUP**

* 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 (CATV) – Use Physical Channel Number
- 22 : Antenna TV (DTV) – Don’t Use Physical Channel Number
- 26 : Cable TV (CATV) - Don’t Use Physical Channel Number
- 46 : Cable TV (CATV) – Use Physical/Major Channel Number Only (One Part Channel)
- 66 : Cable TV (CATV) – 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/Branch is 3 = 00 03
   - Data 05 = Digital Antenna TV = 22
   - Total = **ma 00 00 00 1E 00 03 22**

* 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.

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

| 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] |

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

| Ack [b][ ][Set ID][ ][OK/NG][Data 00][x] |

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

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

| Ack [b][ ][Set ID][ ][OK/NG][Data 00][x] |
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]

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.

<table>
<thead>
<tr>
<th>[Data 00]</th>
<th>[Data 01]</th>
<th>[Data 02]</th>
<th>[Data 03]</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>01</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>02</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>03</td>
<td>X</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

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

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 [][u][ ][Set ID][ ][Data][Cr]
   Data 01 : To set Auto Configure
   Ack [u][ ][Set ID][ ][OK/NG][Data][x]
Network IP Control

(For USA only)

**How to connect**

1. Connect your TV to a wired or wireless network.

2. Press and hold the (Settings) button on the remote control for at least 5 seconds on the Live TV screen. Once the Live TV channel banner appears at the top of the screen, enter 828 and press the OK button to enter the ‘IP Control Setup’ menu.
   * The 3-digit password (default password: 828) can be changed using Password Change.

3. After entering the ‘IP Control Setup’ menu, set the ‘Network IP Control’ submenu to ‘On’. The reboot popup window will appear. Select ‘Yes’ to reboot your TV.
   * Set to ‘Off’ when the feature is not in use.

4. Open a terminal program (e.g. putty, teraterm) on a computer and connect to your TV with your TV’s IP address through telnet service and the port number 9761 as shown below.
   
ex) username : ~$ telnet 10.186.119.107 9761

5. If the connection is successful, the following message will appear. Or if ‘NG’ appears when you press Enter, the connection has been established.

   Trying 10.186.119.107...
   Connected to 10.186.119.107.
   Escape character is ‘^]’.

6. Enter a command like the example shown below and press Enter.

   VOLUME_MUTE on

7. If the command has been successfully entered, ‘OK’ will appear. If not, ‘NG’ will appear.

8. To exit the program, enter ‘quit’ and press Enter. Then, the following message will appear.

   quit
   Connection closed by foreign host

* Power ON through WOL(Wake On Lan)
You can turn on the TV, after setting the ‘Mobile TV On’ submenu(Setting > General > Mobile TV On) to ‘On’ and installing the app related with WOL(Wake On Lan) through iOS or Google Play on your mobile phone.
## Command reference list

<table>
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<th>Note</th>
</tr>
</thead>
<tbody>
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<td>ex) POWER off</td>
</tr>
<tr>
<td>ASPECT_RATIO [4by3 / 16by9 / selbyoriginal]</td>
<td>ex) ASPECT_RATIO 4by3</td>
</tr>
<tr>
<td>SCREEN_MUTE [screenmuteon / videomuteon / allmuteoff]</td>
<td>ex) SCREEN_MUTE screenmuteon</td>
</tr>
<tr>
<td>VOLUME_MUTE [on / off]</td>
<td>ex) VOLUME_MUTE on</td>
</tr>
<tr>
<td>VOLUME_CONTROL [0 to 100]</td>
<td>0 to 100 (Decimal) ex) VOLUME_CONTROL 15</td>
</tr>
<tr>
<td>PICTURE_CONTRAST [0 to 100]</td>
<td>0 to 100 (Decimal) ex) PICTURE_CONTRAST 50</td>
</tr>
<tr>
<td>PICTURE_BRIGHTNESS [0 to 100]</td>
<td>0 to 100 (Decimal) ex) PICTURE_BRIGHTNESS 50</td>
</tr>
<tr>
<td>PICTURE_COLOUR [0 to 100]</td>
<td>0 to 100 (Decimal) ex) PICTURE_COLOUR 50</td>
</tr>
<tr>
<td>PICTURE_TINT [0 to 100]</td>
<td>0 to 100 (Decimal) ex) PICTURE_TINT 50</td>
</tr>
<tr>
<td>PICTURE_SHARPNESS [0 to 50]</td>
<td>0 to 50 (Decimal) ex) PICTURE_SHARPNESS 25</td>
</tr>
<tr>
<td>OSD_SELECT [on / off]</td>
<td>ex) OSD_SELECT on</td>
</tr>
<tr>
<td>REMOTECONTROLER_LOCK [on / off]</td>
<td>ex) REMOTECONTROLER_LOCK on</td>
</tr>
<tr>
<td>AUDIO_BALANCE [0 to 100]</td>
<td>0 to 100 (Decimal) ex) AUDIO_BALANCE 50</td>
</tr>
<tr>
<td>PICTURE_COLOUR_TEMPERATURE [0 to 100]</td>
<td>0 to 100 (Decimal) ex) PICTURE_COLOUR_TEMPERATURE 50</td>
</tr>
<tr>
<td>AUDIO_EQUALIZER [1 to 5] [0 to 20]</td>
<td>1 to 5(Frequency band) 0 to 20(Step decimal) * Precondition : All settings &gt; sound &gt; sound mode settings &gt; Equalizer on ex) AUDIO_EQUALIZER 2 10</td>
</tr>
<tr>
<td>ENERGY_SAVING [screenoff / maximum / medium / minimum / off]</td>
<td>ex) ENERGY_SAVING screenoff</td>
</tr>
<tr>
<td>CHANNELSETTING_ATSC_ATV [Channel Number] antenna</td>
<td>ex) CHANNELSETTING_ATSC_ATV 11 antenna</td>
</tr>
<tr>
<td>CHANNELSETTING_ATSC_ATV [Channel Number] cable</td>
<td>ex) CHANNELSETTING_ATSC_ATV 10 2 antennanotophy</td>
</tr>
<tr>
<td>CHANNELSETTING_ATSC_DTV [Maj. Channel Number] antennanotophy</td>
<td>ex) CHANNELSETTING_ATSC_DTV 10 2 antennanotophy</td>
</tr>
<tr>
<td>CHANNELSETTING_ATSC_DTV [Maj. Channel Number] cablenotophy</td>
<td>ex) CHANNELSETTING_ATSC_DTV 11 antennanotophy</td>
</tr>
<tr>
<td>CHANNEL_ADD_DELETE [add / delete]</td>
<td>ex) CHANNEL_ADD_DELETE add</td>
</tr>
<tr>
<td>COMMAND</td>
<td>NOTE</td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
</tr>
<tr>
<td><strong>20. Control Backlight</strong></td>
<td>PICTURE_BACKLIGHT [0 to 100] 0 to 100 (Decimal) * Precondition : All settings &gt; picture &gt; Energy Saving off ex) PICTURE_BACKLIGHT 50</td>
</tr>
<tr>
<td><strong>22. 3D (only 3D models)</strong></td>
<td>PICTURE_3D [off / 3dto2d] ex) PICTURE_3D off PICTURE_3D 2dto3d [righttoleft / leftright] [0 to 20] ex) PICTURE_3D 2dto3d righttoleft 10 PICTURE_3D on [topandbottom / sidebyside / checkboard / framesquential / columninterleaving / rowinterleaving] [righttoleft / leftright] [0 to 20] ex) PICTURE_3D on topandbottom righttoleft 0</td>
</tr>
</tbody>
</table>
### Command Table: PICTURE_3D_EXTENSION

<table>
<thead>
<tr>
<th>Command</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICTURE_3D_EXTENSION</td>
<td></td>
</tr>
</tbody>
</table>
| picturecorrection [0 / 1]                    | 0 : Right to Left  
1 : Left to Right  
* Precondition : 
1) PICTURE_3D on X X X  
ex) PICTURE_3D_EXTENSION 
picturecorrection 0 |
|                                              |                                                                      |
|                                              | 0 : off  
1 : on  
* Colorcorrection, Sound Precondition :  
1) PICTURE_3D on X X X  
Colorcorrection ex)  
PICTURE_3D on topandbottom righttoleft 0  
PICTURE_3D_EXTENSION colorcorrection 1  
Sound ex)  
PICTURE_3D on topandbottom righttoleft 0  
PICTURE_3D_EXTENSION sound 1 |
|                                              |                                                                      |
|                                              | 0 : off  
1 : on  
* Precondition :  
1) PICTURE_3D on X X X  
ex) PICTURE_3D_EXTENSION normal 0 |
|                                              |                                                                      |
|                                              | 0 to 20 : Viewpoint range  
* Depth precondition :  
1) PICTURE_3D 2dto3d X X  
2) PICTURE_3D_EXTENSION genre 4  
* Viewpoint precondition :  
1) PICTURE_3D 2dto3d X X  
Depth ex)  
PICTURE_3D 2dto3d righttoleft 0  
PICTURE_3D_EXTENSION genre 4  
PICTURE_3D_EXTENSION depth 0  
Viewpoint ex)  
PICTURE_3D 2dto3d righttoleft 0  
PICTURE_3D_EXTENSION viewpoint 0 |
|                                              |                                                                      |
|                                              | 0 : Standard / 1 : Sport / 2 : Cinema / 3 : Extreme / 4 : Manual / 5 : Auto  
* Precondition :  
1) PICTURE_3D 2dto3d X X  
ex) PICTURE_3D_EXTENSION genre 2 |

* This feature is varied based on the model.  
* During playing or recording media, all commands except Power and Key commands are not executed and treated as NG.
Press the (Home) button to access the Smarthome menu. Select (Settings) and press Wheel (OK).

Select (All Settings) and press Wheel (OK).

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

The device automatically tries to connect to the available network (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 has the symbol, you need to enter the security key.

If the connection is completed, Connected to Internet is displayed.

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

* Image shown may differ from your TV.
* Image shown on a PC or mobile phone may vary depending upon the Operating System (OS).
* Depending upon the version of the software, icon position can be changed.
Troubleshooting Network Problems

Depending upon the version of the software, icon position can be changed.

1. Press the (Home) button to access the Smarthome menu. Select (Settings) and press (Wheel (OK)).

2. Select (All Settings) and press (Wheel (OK)).

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 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 10 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 cable modem or the AP (Router), wait 10 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.

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.
SmartShare PC SW Installation & Setting

Install the SmartShare PC SW program on your PC.
2. Select SUPPORT.
3. Select Software & Firmware. Then, search for your model. Then, select SmartShare PC SW.
4. 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 to the same 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 on TV. (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

(Home) (Settings) (All Settings) General About This TV CHECK FOR UPDATES
You can check the Software Version and update it. If you check the Allow Automatic Updates, the TV will check for updated software automatically each time the set is turned on (Internet Connection is required).
* When the TV is turned on for the first time after a software update, initialization of the TV may take approximately one minute.
Wi-Fi Direct Setting

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. Select your device.
2. When you are prompted to the connection request, select Yes. Wi-Fi Direct is now connected to your TV.
   * You can only use devices that support WiFi 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.
   * If you turn Listen Mode to ON after launching the Screen Share app, you can connect the device without starting the Screen Share app.

WiDi (Wireless Display) Setting

Intel® WiDi (Wireless Display) technology enables easy and fast connection without wires or internet network for mirrored and dual monitor display on your TV. You can sit back and experience your favorite movies, videos, photos, online shows and more in full HD on your TV with great image clarity and sound.

1. On the TV Intel® WiDi is set to On. Your laptop runs the Intel® WiDi program.
   * LG TVs do not need to register.
   * For more information on Intel® WiDi, visit http://intel.com/go/widi.
   * You can control your PC using the Magic Remote. (above WiDi version 4.2)
2. It detects LG webOS TVs available, which supports WiDi. In the list, select the TV you want and click Connect.
   Enter the number shown on the screen into the input field on your laptop and then click Continue.
3. The laptop screen appears on the TV screen. The wireless environment may affect the screen display. If the connection is poor, the Intel® WiDi connection may be lost.
Troubleshooting Wi-Fi Network Problems

Checkpoints
- Make sure that you have the latest version of the software.
  - If you are using a Wi-Fi router, check whether you have the latest firmware installed.
  - If there are any available updates, update the firmware according to the manufacturer’s instructions.
- Check the current software version and if there is an available update, install it.
- Check if the same symptom occurs with two or more Wi-Fi devices.
  - Wi-Fi problems may be related to network condition and a device that is connected to the network.
  - If other Wi-Fi devices can connect to the Internet at the same location as the TV, then your Wi-Fi router is probably normal.
- Check the power and Ethernet cables of the Wi-Fi router.
  - When the Ethernet cable connected to the Wi-Fi router is loose or disconnected, network problems can occur.
  - Check all power and Ethernet cables of the Wi-Fi router to see if they are correctly connected.
- Check the Wi-Fi router to see if the router is set to the recommended wireless settings. If network problems continue, reset your network devices.
- Check the signal strength of the Wi-Fi router to connect to from the TV UI.
  - The that is next to the Wi-Fi router name (SSID) in the menu indicates the sensitivity of the receiver.
  - It is recommended that you connect to a Wi-Fi network with 3 or more bars of signal strength.
  - If the number of bars indicating signal strength are less than 3, the network connection status may be weak or unstable, so shorten the distance between the Wi-Fi router and the TV.
- If the signal strength of the Wi-Fi router is weak, wireless speed slowdowns and network disconnection may occur.
- To supplement wireless coverage of network equipment, your Wi-Fi router should be placed in the middle of the network equipment.

Interference Factors
- If there is any interference from surrounding equipment, the network connection may be weak or unstable.
  - Wireless telephones that operate in the 2.4 GHz or 5 GHz bandwidth
  - Wireless speakers that operate in the 2.4 GHz or 5 GHz bandwidth
  - Video transmitters that operate in the 2.4 GHz or 5 GHz bandwidth
  - Other wireless devices (Microwaves, cameras, baby monitors, neighboring wireless devices, etc.) that operate in the 2.4 GHz or 5 GHz bandwidth.
- How to reduce the effects of interference between Wi-Fi and Bluetooth devices
  - Set the channel on your wireless network equipment to avoid the 2.4 GHz or 5 GHz bandwidth which has lots of interference.
  - If possible, use the 5 GHz wireless network.
  - If the Wi-Fi router is located too far away or in environments with high interference, the network connection may be weak or unstable.
  - In this case, move the Wi-Fi router closer to the TV or check if there are any obstructions (e.g., concrete walls, cabinets) between the two devices.
### Radio Frequency (RF) Interference and Absorbing Obstructions

<table>
<thead>
<tr>
<th>Type of Barrier</th>
<th>Interference Potential</th>
<th>Type of Barrier</th>
<th>Interference Potential</th>
<th>Type of Barrier</th>
<th>Interference Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood</td>
<td>Low</td>
<td>Water</td>
<td>Medium</td>
<td>Plaster</td>
<td>High</td>
</tr>
<tr>
<td>Synthetic material</td>
<td>Low</td>
<td>Bricks</td>
<td>Medium</td>
<td>Concrete</td>
<td>High</td>
</tr>
<tr>
<td>Glass</td>
<td>Low</td>
<td>Marble</td>
<td>Medium</td>
<td>Bulletproof glass</td>
<td>High</td>
</tr>
<tr>
<td>Metal</td>
<td>Very High</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LG SIGNATURE

**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 guide et conservez-le pour pouvoir vous y reporter ultérieurement.

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**OLED TV**
OLED65G6P
OLED77G6P

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**OLED65G6P**

- X 4 (M10 x L70)
- X 2 (M4 x L10)

---

**OLED77G6P**

- X 18 (M4 x L12)
- X 2 (M8 x L77)
- X 2 (M8 x L25)

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AA
CR2032

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P/No: MFL69383610 (1606-REV02)
### English

<table>
<thead>
<tr>
<th>MODELS</th>
<th>OLED65G6P (OLED65G6P-U)</th>
<th>OLED77G6P (OLED77G6P-U)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td><strong>Stand type</strong></td>
<td><strong>Wall mount type</strong></td>
</tr>
<tr>
<td><strong>(W x H x D)</strong></td>
<td>1,461 x 883 x 243 (mm)</td>
<td>1,461 x 892 x 68 (mm)</td>
</tr>
<tr>
<td></td>
<td>57.5 x 34.7 x 9.5 (inches)</td>
<td>57.5 x 35.1 x 2.6 (inches)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>31.7 kg (69.8 lbs)</td>
<td>31.7 kg (69.8 lbs)</td>
</tr>
<tr>
<td><strong>Current value / Power consumption</strong></td>
<td>For USA and Canada: 3.6 A / 360 W</td>
<td>For USA and Canada: 5.2 A / 520 W</td>
</tr>
<tr>
<td></td>
<td>For Mexico: 4.4 A / 440 W</td>
<td>For Mexico: 7.8 A / 780 W</td>
</tr>
<tr>
<td><strong>Power requirement</strong></td>
<td>AC 120 V ~ 50 / 60 Hz</td>
<td>AC 120 V ~ 50 / 60 Hz</td>
</tr>
</tbody>
</table>

### Español

<table>
<thead>
<tr>
<th>MODELOS</th>
<th>OLED65G6P (OLED65G6P-U)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensiones</strong></td>
<td><strong>Párese tipo</strong></td>
</tr>
<tr>
<td><strong>(Ancho x altura x profundidad)</strong></td>
<td>1,461 x 883 x 243 (mm)</td>
</tr>
<tr>
<td></td>
<td>57.5 x 34.7 x 9.5 (pulgadas / po)</td>
</tr>
<tr>
<td><strong>Peso</strong></td>
<td>31,7 kg (69,8 libras / lb)</td>
</tr>
<tr>
<td><strong>Corriente de consumo / Consumo de potencia</strong></td>
<td>Para Estados Unidos y Canadá: 3.6 A / 360 W</td>
</tr>
<tr>
<td></td>
<td>Para México: 4.4 A / 440 W</td>
</tr>
<tr>
<td><strong>Alimentación requerida</strong></td>
<td>AC 120 V ~ 50 / 60 Hz</td>
</tr>
</tbody>
</table>

### Français

<table>
<thead>
<tr>
<th>MODÈLES</th>
<th>OLED65G6P (OLED65G6P-U)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td><strong>Sur support</strong></td>
</tr>
<tr>
<td><strong>(L x H x P)</strong></td>
<td>1,461 x 892 x 68 (mm)</td>
</tr>
<tr>
<td></td>
<td>57,5 x 35,1 x 2,6 (pulgadas / po)</td>
</tr>
<tr>
<td><strong>Poids</strong></td>
<td>31,7 kg (69,8 libras / lb)</td>
</tr>
<tr>
<td><strong>Valeur courante / Consommation électrique</strong></td>
<td>Pour les États-Unis et le Canada: 3.6 A / 360 W</td>
</tr>
<tr>
<td></td>
<td>Pour le Mexique: 4.4 A / 440 W</td>
</tr>
<tr>
<td><strong>Alimentation</strong></td>
<td>AC 120 V ~ 50 / 60 Hz</td>
</tr>
</tbody>
</table>

**MODELS**: OLED65G6P (OLED65G6P-U), OLED77G6P (OLED77G6P-U)

**Dimensions**: Stand type, Wall mount type

**Weight**: 31.7 kg (69.8 lbs), 54.1 kg (119.2 lbs)

**Current value / Power consumption**: For USA and Canada: 3.6 A / 360 W, 5.2 A / 520 W, 4.4 A / 440 W, 7.8 A / 780 W

**Power requirement**: AC 120 V ~ 50 / 60 Hz