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

43UF7600  60UF7650  60UF7700  50UF8300  55UF8500  55UF9500  55UG8700
49UF7600  65UF7650  65UF7700  58UF8300  60UF8500  65UF9500  65UG8700
55UF7600  70UF7650  70UF7700  79UF7700  65UF8500  79UF9500
               60UF7690  79UF7700
               65UF7690  65UF7690

www.lg.com

P/No : MFL68741502 (1505-REV03)
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 appliance.

WARNING/CAUTION

- To reduce the risk of fire and electric shock, do not expose this product to rain or moisture.

WARNING

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

CAUTION

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

NOTE

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

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

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.

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

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

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

• CAUTION concerning the Power Cord (Can differ by country): Check the specification page of this owner's manual to be certain. Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. Do not move the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure 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.

- **As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.**

- **Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user’s authority to operate this product.**

- **Outdoor Antenna Grounding**  
  (Can differ by country):  
  If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the U.S.A provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.  
  **Antenna grounding according to the National Electrical Code, ANSI/NFPA 70**

- **Cleaning**  
  When cleaning, unplug the power cord and wipe gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners, or benzene.

- **Moving**  
  Make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV.

- **Ventilation**  
  Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials while plugged in. Do not install in excessively dusty places.

- **If you smell smoke or other odors coming from the TV, unplug the power cord and contact an authorized service center.**

- **Keep the product away from direct sunlight.**

- **Never touch this apparatus or antenna during a lightning storm.**

- **When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.**

- **Do not allow an impact shock or any objects to fall into the product, and do not drop anything onto the screen.**

- **DISCONNECTING THE DEVICE FROM THE MAIN POWER**  
  The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.

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

  - **This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.**

  - **Do not dispose of batteries in a fire.**

  - **Do not short circuit, disassemble, or allow the batteries to overheat.**
• Do not use high voltage electrical equipment near the TV, (e.g., a bug zapper). This may result in product malfunction.

• **Dot Defect**
  The panel is a high technology product with resolution of two million to six million pixels. In a very few cases, you could see fine dots on the screen while you’re viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.

• **Generated Sound**
  **Cracking noise** A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
  **Electrical circuit humming/panel buzzing** A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending upon the product. This generated sound does not affect the performance and reliability of the product.

• Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot. This does not affect the performance of the product or cause defects in the product.

• Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.

• If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV’s performance. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

• Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD, 1 or more hours for the Plasma TV) to prevent image burn.

**FCC Notice**

(For USA)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation of the device. Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
FCC Radio Frequency Interference Requirements (for UNII devices)

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

FCC RF Radiation Exposure Statement

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be colocated 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 radiator and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement

(For Canada)

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

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:
1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement

(For Canada)

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

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

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

Note to Cable/TV Installer

(For USA and Canada)

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

LG Recycling Policy

(For USA)

LG Electronics offers a customized e-waste takeback and recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product and packaging takeback 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 takeback- recycling
Viewing 3D Imaging
(For 3D models)

⚠️ WARNING

Viewing Environment
• Viewing Time
  - When watching 3D content, take 5 to 15 minute breaks every hour. Viewing 3D content for a long period of time may cause headache, dizziness, fatigue, or eye strain.

Those that have a photosensitive seizure or chronic illness
• Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular pattern from 3D content.
• Do not watch 3D videos if you feel nauseous, are pregnant and/ or have a chronic illness such as epilepsy, cardiac disorder, or blood pressure disease, etc.
• 3D Content is not recommended for those who suffer from stereo blindness or stereo anomaly. Double images or discomfort in viewing may be experienced.
• If you have strabismus (cross-eyed), amblyopia (weak eyesight), or astigmatism, you may have trouble sensing depth and easily feel fatigue due to double images. It is advised to take more frequent breaks than the average adult.
• If your eyesight varies between your right and left eye, correct your eyesight prior to watching 3D content.

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

⚠️ CAUTION

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

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

Cautions when using the 3D glasses
• 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.
• Using modified 3D glasses may cause eye strain or image distortion.
• Do not keep your 3D glasses in extremely high or low temperatures. It will cause deformation.
• The 3D glasses are fragile and are easily scratched. Use a soft, clean piece of cloth when wiping the lenses. Do not scratch the lenses of the 3D glasses with sharp objects or clean/wipe them with chemicals.
Preparing

NOTE

• Image shown may differ from your TV.
• Your TV’s OSD (On Screen Display) may differ slightly from that shown in this manual.
• The available menus and options may differ from the input source or product model that you are using.
• New features may be added to this TV in the future.
• The items supplied with your product may vary depending upon the model.
• Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
• For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) width.
• Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV’s USB port.
• Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
• Recommended HDMI cable types (3 m or less)
  - High-Speed HDMI®/TM cable
  - High-Speed HDMI®/TM cable with Ethernet

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.
• Do not remove the panel with your fingers or any tools. Doing so may damage the product. (For 55/65UF9500)

• 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.

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>
<th>AN-VC550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cinema 3D Glasses</td>
<td>Dual Play Glasses</td>
<td>Smart Camera</td>
</tr>
<tr>
<td>AN-MR6***</td>
<td>LG Audio Device</td>
<td></td>
</tr>
</tbody>
</table>
Maintenance

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

⚠️ CAUTION
• Before cleaning, turn the power off and disconnect the power cord and all other cables.
• When the TV is left unattended or unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

Screen, Frame, Cabinet, and Stand
To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.
To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.

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

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

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

⚠️ 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)
Using the Joystick Button

( Depending upon model)  
(Image shown may differ from your TV.)  
You can operate the TV by pressing the button or moving the joystick left, right, up, or down.

**Joystick Button**

**Basic Functions**

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power On</strong></td>
<td>When the TV is turned off, place your finger on the joystick button, press it once, and release it.</td>
</tr>
<tr>
<td><strong>Power Off</strong></td>
<td>When the TV is turned on, place your finger on the joystick button, press it once for a few seconds, and release it. All running apps will close.</td>
</tr>
<tr>
<td><strong>Volume Control</strong></td>
<td>If you place your finger over the joystick button and move it left or right, you can adjust the volume level.</td>
</tr>
<tr>
<td><strong>Channels Control</strong></td>
<td>If you place your finger over the joystick button and move it up or down, you can scroll through the saved channels.</td>
</tr>
</tbody>
</table>

**NOTE**

• With your finger over the joystick button move it up, down, left, or right. Be careful not to press the joystick button. If you press the joystick button first, you may not be able to adjust the volume level and/or scroll through saved channels.

**Adjusting the Menu**

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

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

Mounting on a Table

( Image shown may differ from your TV.)

1. Lift and tilt the TV into its upright position on a table.
   - Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.

2. Connect the power cord to a wall outlet.

**CAUTION**

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

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>VESA (A x B)</th>
<th>Standard screw</th>
<th>Number of screws</th>
<th>Wall mount bracket (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>43UF7600</td>
<td>200 x 200</td>
<td>M6</td>
<td>4</td>
<td>MSW240</td>
</tr>
<tr>
<td>49/55UF7600</td>
<td>300 x 300</td>
<td>M6</td>
<td>4</td>
<td>M5W240</td>
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<tr>
<td>50UF8200</td>
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<td>55UG8700</td>
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<tr>
<td>60/65UF7650</td>
<td>300 x 300</td>
<td>M6</td>
<td>4</td>
<td>LSW350B</td>
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<tr>
<td>60/65UF7690</td>
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<td>70/79UF7700</td>
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<td>79UF9500</td>
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</table>

CAUTION
• Disconnect the power before moving or installing the TV. Otherwise electric shock may occur.
• Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
• If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury. Use an authorized LG wall mount and contact the local dealer or qualified personnel. When using a third-party wall mount, it is not covered by the warranty.
• Do not overtighten the screws as this may cause damage to the TV and void your warranty.
• Use the screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

NOTE
• Use the screws that are listed in the VESA standard screw specifications.
• The wall mount kit includes an installation manual and necessary parts.
• The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
• The length of screws may differ depending upon the wall mount. Make sure to use the proper length.
For more information, refer to the manual supplied with the wall mount.

When using the wall mounting bracket, apply the adhesive protective label to cover the unused stand openings. This will prevent the accumulation of dust and dirt. (Use only when provided with your particular model.)

Provided Item

- Adhesive protective label

Depending upon the shape of the stand, use a flat tool to remove the stand cover as illustrated below. (e.g., a flat screwdriver)

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 this manual.
- Connect external devices to the TV regardless of the order of the TV port.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment’s manual for operating instructions.

In PC mode, there may be noise associated with the resolution, vertical pattern, contrast, or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate, or adjust the brightness and contrast on the PICTURE menu until the picture is clear.

Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.

- 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.

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.

**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
• [HDMI] → [C] → [PICTURE] → HDMI ULTRA HD Deep Color:
  - On: Support 4K @ 60 Hz (4:4:4, 4:2:2, 4:2:0)
  - Off: Support 4K @ 60 Hz (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.

Magic Remote Functions

(Image shown may differ from your TV.)
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.

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

A
• (POWER) Turns the TV on or off.
• (INPUT) Changes the input source.
  * Pressing and holding the (INPUT) button displays all the lists of external inputs.
• Number button Enters numbers.
  - (Dash) Inserts a dash between numbers such as 2-1 and 2-2.
• LIST Accesses the saved channel list.
• INFO Shows information on the current program.

B
• VOL Adjusts the volume level.
• (MUTE) Mutes all sounds.
  * By pressing and holding the (MUTE) button, VD function will be enabled.
  * SAP (Secondary Audio Program) Feature can also be enabled by pressing the SAP key.
• (Home) Accesses the Home menu.
• CH Scrolls through the saved channels.
• (Back) Returns to the previous screen.
• EXIT Clears all on-screen displays and returns to TV viewing.

C
• △ ▽ (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.
Wheel (OK) Press the center of the Wheel button to select a menu. You can change channels by using the Wheel button.

(Q. Settings) Accesses the quick settings.
* Pressing and holding the (Q. Settings) button displays the Advanced menu.

(Screen Remote) Displays the Screen Remote.
* Accesses the Universal Control Menu in some regions.

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

(Voice recognition) Network connection is required to use the voice recognition function.
1. Press the voice recognition button.
2. Speak when the voice display window appears on the TV screen.
* Use the Magic Remote no further than 10 cm (4 inches) from your face.
* The voice recognition may fail when you speak too fast or too slowly.
* The recognition rate may vary depending upon the user’s characteristics (voice, pronunciation, intonation, and speed) and the environment (noise and TV volume).

CAPTION Activates or deactivates the subtitles.

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

Registering Magic Remote

How to register the Magic Remote

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

How to deregister the Magic Remote

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

How to Use Magic Remote

Shake the Magic Remote slightly to the right and left or press (Home), (INPUT), 3D buttons to make the pointer appear on the screen. (In some TV models, the pointer will appear when you turn the Wheel button.)
* If the pointer has not been used for a certain period of time or Magic Remote is placed on a flat surface, then the pointer will disappear.
* If the pointer does not move as you wish, shake Magic Remote to the left and right. The pointer will move to the center of the screen.
* The Magic Remote depletes batteries faster than a normal remote due to the additional features.

Precautions to Take When Using the Magic Remote

* Use the Magic Remote within the maximum communication distance (10 m, 32.8 ft). Using the remote control beyond this distance, or with an object obstructing it, may cause a communication failure.
* A communication failure may occur due to nearby devices. Electrical devices such as a microwave oven or wireless LAN product may cause interference, as these use the same bandwidth (2.4 GHz) as the Magic Remote.
* The Magic remote may be damaged or may malfunction if it is dropped or receives a heavy impact.
* Take care not to bump into nearby furniture or other people when using the Magic Remote.
* Manufacturer and installer cannot provide service related to human safety as the applicable wireless device has possibility of electromagnetic interference.
* It is recommended that an Access Point (AP) be located more than 1 m (3.28 ft.) away from the TV. If the AP is installed closer than 1 m (3.28 ft.), the Magic Remote may not perform as expected due to frequency interference.
**Licenses**

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

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

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

**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.

**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 (LGSBW41)**

**Specifications**

(For UF7600, UF7650, UF7690, UF7700, UF8300, UF8500, UF8600, UG8700 series and 79UF9500)

<table>
<thead>
<tr>
<th>Wireless LAN</th>
<th>Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Frequency range</td>
<td>Frequency range</td>
</tr>
<tr>
<td>2400 to 2483.5 MHz</td>
<td>2400 to 2483.5 MHz</td>
</tr>
<tr>
<td>5150 to 5250 MHz</td>
<td>5725 to 5850 MHz</td>
</tr>
<tr>
<td>Output power (Max.)</td>
<td>Output power (Max.)</td>
</tr>
<tr>
<td>802.11a: 11.5 dBm</td>
<td>802.11a: 11.5 dBm</td>
</tr>
<tr>
<td>802.11b: 11 dBm</td>
<td>802.11b: 11 dBm</td>
</tr>
<tr>
<td>802.11g: 10.5 dBm</td>
<td>802.11g: 10.5 dBm</td>
</tr>
<tr>
<td>802.11n: 2.4 GHz: 11 dBm</td>
<td>802.11n: 2.4 GHz: 11 dBm</td>
</tr>
<tr>
<td>802.11n: 5 GHz: 12.5 dBm</td>
<td>802.11n: 5 GHz: 12.5 dBm</td>
</tr>
</tbody>
</table>

- Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.
- This device should be installed and operated with minimum distance 20 cm (7.8 inches) between the device and your body. And this phrase is for the general statement for consideration of user environment.
- Contains FCC ID: BEJLGSBW41 / Contains IC: 2703H-LGSBW41
Wireless Module (LGSBW51)

Specifications
(For 55/65UF9500)

<table>
<thead>
<tr>
<th>Wireless LAN</th>
<th>Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard</strong></td>
<td><strong>Standard</strong></td>
</tr>
<tr>
<td>IEEE 802.11a/b/g/n/ac</td>
<td>Bluetooth Version 4.0</td>
</tr>
<tr>
<td><strong>Frequency range</strong></td>
<td><strong>Frequency range</strong></td>
</tr>
<tr>
<td>2400 to 2483.5 MHz</td>
<td>2400 to 2483.5 MHz</td>
</tr>
<tr>
<td>5150 to 5250 MHz</td>
<td></td>
</tr>
<tr>
<td>5725 to 5850 MHz</td>
<td></td>
</tr>
<tr>
<td><strong>Output power (Max.)</strong></td>
<td><strong>Output power (Max.)</strong></td>
</tr>
<tr>
<td>802.11a: 15 dBm</td>
<td>10 dBm or Lower</td>
</tr>
<tr>
<td>802.11b: 17 dBm</td>
<td></td>
</tr>
<tr>
<td>802.11g: 15 dBm</td>
<td></td>
</tr>
<tr>
<td>802.11n - 2.4 GHz: 15 dBm</td>
<td></td>
</tr>
<tr>
<td>802.11n - 5 GHz: 15 dBm</td>
<td></td>
</tr>
<tr>
<td>802.11ac - 5 GHz: 15 dBm</td>
<td></td>
</tr>
</tbody>
</table>

- Because band channel used by the country could be different, the user cannot change or adjust the operating frequency and this product is set for the regional frequency table.
- This device should be installed and operated with minimum distance 20 cm (7.8 inches) between the device and your body. And this phrase is for the general statement for consideration of user environment.
- Contains FCC ID: BEJLGSBW51 / Contains IC: 2703H-LGSBW51
CHILD SAFETY:
PROPER TELEVISION PLACEMENT MATTERS

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

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

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

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

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

**MODEL**

**SERIAL**

---

**Declaration of Conformity**

**Trade Name:** LG

**Model:** 43/49/55UF7600-UJ, 43/49/55UF7600-UT,
60/65/70UF7650-UJ, 60/65UF7690-UH,
60/65/70UF7700-UJ, 60/65/70UF7700-UT,
79UF7700-UB, 50/58UF8300-UA,
55/60/65UF8500-UB, 55/65UF8600-UF,
55/65/79UF9500-UA, 55/65UG8700-UA

**Responsible Party:** LG Electronics Inc.

**Address:** 1000 Sylvan Ave. Englewood Cliffs NJ 07632 U.S.A

**TEL:** 201-266-2534

---

**LG Customer Information Center**

For inquiries or comments, visit www.lg.com or call:

1-800-243-0000 USA, Consumer User
1-888-865-3026 USA, Commercial User
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>7A</td>
<td>User Guide</td>
<td>R/C Button</td>
</tr>
<tr>
<td>0F</td>
<td>TV, TV/RAD</td>
<td>R/C Button</td>
<td>7C</td>
<td>Smart / Home</td>
<td>R/C Button</td>
</tr>
<tr>
<td>10 - 19</td>
<td>* Number Key 0 - 9</td>
<td>R/C Button</td>
<td>7E</td>
<td>SIMPLINK</td>
<td>R/C Button</td>
</tr>
<tr>
<td>1A</td>
<td>Q.View / Flashback</td>
<td>R/C Button</td>
<td>8E</td>
<td>►► (Forward)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>1E</td>
<td>FAV (Favorite Channel)</td>
<td>R/C Button</td>
<td>8F</td>
<td>◀ ◀ (Rewind)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>20</td>
<td>Text (Teletext)</td>
<td>R/C Button</td>
<td>AA</td>
<td>Info</td>
<td>R/C Button</td>
</tr>
<tr>
<td>21</td>
<td>T. Opt (Teletext Option)</td>
<td>R/C Button</td>
<td>AB</td>
<td>Program Guide</td>
<td>R/C Button</td>
</tr>
<tr>
<td>28</td>
<td>Return (BACK)</td>
<td>R/C Button</td>
<td>B0</td>
<td>► (Play)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>30</td>
<td>AV (Audio / Video) Mode</td>
<td>R/C Button</td>
<td>B1</td>
<td>■ (Stop / File List)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>39</td>
<td>Caption/Subtitle</td>
<td>R/C Button</td>
<td>BA</td>
<td>II (Freeze / Slow Play / Pause)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>40</td>
<td>▼ (Arrow Key / Cursor Up)</td>
<td>R/C Button</td>
<td>BB</td>
<td>Soccer</td>
<td>R/C Button</td>
</tr>
<tr>
<td>41</td>
<td>V (Arrow Key / Cursor Down)</td>
<td>R/C Button</td>
<td>BD</td>
<td>● (REC)</td>
<td>R/C Button</td>
</tr>
<tr>
<td>42</td>
<td>My Apps</td>
<td>R/C Button</td>
<td>DC</td>
<td>3D</td>
<td>R/C Button</td>
</tr>
<tr>
<td>43</td>
<td>Menu / Settings</td>
<td>R/C Button</td>
<td>99</td>
<td>AutoConfig</td>
<td>R/C Button</td>
</tr>
<tr>
<td>44</td>
<td>OK / Enter</td>
<td>R/C Button</td>
<td>9F</td>
<td>App / *</td>
<td>R/C Button</td>
</tr>
<tr>
<td>45</td>
<td>Q.Menu</td>
<td>R/C Button</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4C</td>
<td>List, - (ATSC Only)</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

![Diagram of USB to Serial converter with USB Cable]

- 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.

![Diagram of RS-232C With RS232C Cable]

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>
</tbody>
</table>

**OR**

<table>
<thead>
<tr>
<th></th>
<th>D-Sub 9</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<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>

---

**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>
<th>COMMAND1</th>
<th>COMMAND2</th>
<th>DATA (Hexadecimal)</th>
</tr>
</thead>
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<tr>
<td>01. Power*</td>
<td>k</td>
<td>a</td>
<td>00 to 01</td>
<td>15. Balance</td>
<td>k</td>
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<td>02. Aspect Ratio</td>
<td>k</td>
<td>c</td>
<td>(p.7)</td>
<td>16. Color (Colour) Temperature</td>
<td>x</td>
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<td>k</td>
<td>d</td>
<td>(p.7)</td>
<td>17. ISM Method (Only Plasma TV)</td>
<td>j</td>
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<td>00 to 64</td>
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<td>k</td>
<td>i</td>
<td>00 to 64</td>
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<td>m</td>
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<td>00 to 64</td>
<td>27. Auto Configure</td>
<td>j</td>
</tr>
<tr>
<td>14. Bass</td>
<td>k</td>
<td>s</td>
<td>00 to 64</td>
<td></td>
<td></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 to Decimal)

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

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Hexadecimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 : Step 0</td>
<td>00</td>
</tr>
<tr>
<td>01 : Step 1 (Set ID 1)</td>
<td>01</td>
</tr>
<tr>
<td>. . .</td>
<td>...</td>
</tr>
<tr>
<td>0A : Step 10 (Set ID 10)</td>
<td>0A</td>
</tr>
<tr>
<td>. . .</td>
<td>...</td>
</tr>
<tr>
<td>0F : Step 15 (Set ID 15)</td>
<td>0F</td>
</tr>
<tr>
<td>10 : Step 16 (Set ID 16)</td>
<td>10</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]

* 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 color in the PICTURE menu.

Transmission [k][i][ ][Set ID][ ][Data][Cr]
Data Min : 00 to Max : 64

Ack [j] [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]

MSB

<table>
<thead>
<tr>
<th>Frequency</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 0 0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0 0 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1(decimal)</td>
</tr>
<tr>
<td>0 1 0</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>0 1 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>19(decimal)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LSB
EXTERNAL CONTROL DEVICE SETUP

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

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

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

19. Energy Saving (Command: j q)

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

Transmission [j][q][ ][Set ID][ ][OK/NG][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

* 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

Acknowledgement [v][ ][Set ID][ ][OK/NG][Data][x]
EXTERNAL CONTROL DEVICE SETUP

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

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

* Tune Command Examples:
1. Tune to the Analog cable (NTSC) channel 35.
   Set ID = All = 00
   Data 00 = Channel Data is 35 = 23
   Data 01 & 02 = No Major = 00 00
   Data 03 & 04 = No Minor = 00 00
   Data 05 = Analog Cable TV = 01
   Total = ma 00 23 00 00 00 00 01

2. Tune to the digital antenna (ATSC) channel 30-3.
   Set ID = All = 00
   Data 00 = Don’t know Physical = 00
   Data 01 & 02 = Major is 30 = 00 1E
   Data 03 & 04 = Minor is 3 = 00 03
   Data 05 = Digital Antenna TV = 22
   Total = ma 00 00 00 1E 00 03 22

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

• For Japan Model
   ► To tune channel to following physical/major/minor number.
      Transmission [m][a][ ][Set ID][ ][OK][Data 00][Data 01][Data 02][Data 03][Data 04][Data 05][Cr]

* Digital Antenna/Satellite
  Data 00: xx (Don’t care)

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

  [Data 03][Data 04]: Minor/Branch Channel Number
  (Don’t care in Satellite)
  Data 03: High byte Channel Data
  Data 04: Low byte Channel Data

  Data 05 : Input Source (Digital/Satellite for Japan)
  - 02 : Antenna TV (DTV)
  - 07 : BS (Broadcasting Satellite)
  - 08 : CS1 (Communication Satellite 1)
  - 09 : CS2 (Communication Satellite 2)

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

   Data 05 = Digital Antenna TV = 02
   Total = ma 00 00 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  
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][Cr]  

* (Depending on model)  
Data Structure  
[Data 00]  3D option  
00 : 3D On  
01 : 3D Off  
02 : 3D to 2D  
03 : 2D to 3D  

[Data 01]  Top and Bottom  
00 : Right to Left  
01 : Left to Right  

[Data 02]  Side by Side  
01 : Check Board  
02 : Frame Sequential  
03 : Column interleaving  
04 : Row interleaving  

[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.  

Ack [t][ ][Set ID][ ][OK][Data00][Data01][Data02][Data03][x]  
* [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 conversion condition doesn’t meet, command is treated as NG.  

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][Data02][Data03][x]
27. Auto Configure (Command: j u)  
(Depending on model)
► To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

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

Data 01 : To set

Ack [u][ ][Set ID][ ][OK/NG][Data][x]
ENGLISH
Easy Setup Guide
Please read this manual carefully before operating your set and retain it for future reference.

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

FRANÇAIS
Guide de configuration rapide
Avant d’utiliser l’appareil, veuillez lire attentivement ce manuel et le conserver pour pouvoir vous y reporter ultérieurement.
Read Safety and Reference.
Leer Seguridad y Consultas.
Lisez Sécurité et référence.
1

* A ≥ 150 mm

3

4

5
Image shown may differ from your TV.
La imagen puede ser diferente a la de su televisor.
Cette illustration peut ne pas correspondre à votre téléviseur.
<table>
<thead>
<tr>
<th>MODELS</th>
<th>55UF9500 (55UF9500-UA)</th>
<th>65UF9500 (65UF9500-UA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>With stand</td>
<td>1,236 x 773 x 240 (mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48.6 x 30.4 x 9.4 (inches)</td>
</tr>
<tr>
<td></td>
<td>Without stand</td>
<td>1,236 x 722 x 47.6 (mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48.6 x 28.4 x 1.8 (inches)</td>
</tr>
<tr>
<td>Weight</td>
<td>With stand</td>
<td>22.2 kg (48.9 lbs)</td>
</tr>
<tr>
<td></td>
<td>Without stand</td>
<td>19.0 kg (41.8 lbs)</td>
</tr>
<tr>
<td>Power requirement</td>
<td></td>
<td>AC 100-240 V ~ 50/60 Hz</td>
</tr>
<tr>
<td>Current Value / Power consumption</td>
<td></td>
<td>1.8 A / 180 W</td>
</tr>
</tbody>
</table>
This product qualifies for ENERGY STAR in the factory default (HOME MODE) setting. Changing the factory default settings or enabling other features may increase power consumption that could exceed the limits necessary to quality for ENERGY STAR. Refer to ENERGYSTAR.gov for more information on the ENERGY STAR program.

Ce produit est conforme aux normes ENERGY STAR lorsque le « réglage d'usine par défaut (USAGE FAMILIAL) » est sélectionné. Modifier les réglages d'usine par défaut ou activer d'autres fonctionnalités augmente la consommation d'énergie qui pourrait alors dépasser les limites de la qualification Energy Star. Consultez le site ENERGYSTAR.gov pour en savoir plus au sujet du programme ENERGY STAR.