

Preparing

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 side and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.
- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
- When handling the TV, be careful not to damage the protruding buttons.
- Avoid touching the screen at all times, as this may result in damage to the screen.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

Mounting on the Table

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

- Leave a minimum of 10 cm (4 inches) space from the wall for proper ventilation.

2 Connect the power cord to a wall outlet.

(Depending upon model)

- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.

- Do not use any unapproved items to ensure the safety and lifespan of the product.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- Make sure that the screws are fastened tightly. (If they are not fastened securely enough, the TV may tilt forward after being installed.)
- When installing on a cabinet or a shelf using a stand, make sure its width is greater than that of the TV.

Securing TV to the Wall

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.

(Depending upon model)

- 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.

Stand

(Depending upon model)

Mounting to the Wall

An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount. The LG wall mount is easy to adjust or to connect the cables. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. If you are using a non-adjustable mount, attach the mount to the wall. Attach the cables to the TV first, then attach the TV to the mount.

(Depending upon model)

- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.

- For more information of screws and wall mount bracket, refer to the Separate purchase.
- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
- When installing the Full Contact Wall Mount, the TV may not be contacted firmly against the wall due to some wall conditions.

Wall Mounting Bracket

(Depending upon model)

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

For more information, watch the installation video on your smart device.

Precautions for Safety

(Except for OLW480B)

- Professional installers should read this manual carefully to ensure proper installation.
- Professional installers should forward this manual to customers after installation and encourage them to read and store it in a convenient place for future reference.

After reading the installation manual, keep it in a convenient place for future reference.

- Ask a professional installer appointed by the store for installation of the product. Installation by someone other than a professional installer is extremely dangerous and may result in personal injury.
- Do not install the product in an unstable site that cannot withstand its weight. If the installation site lacks sufficient rigidity, the product may fall and cause personal injury.
- Contact a professional installer appointed by the store prior to moving or replacing the product after installation. Installation is a technical task and safety issues may arise if an individual attempts to install or move the product personally.
- Do not hang on the product or subject it to severe impact after installation. Doing so may cause the product to fall and cause personal injury.
- When installing the product on a wall, do not hang the power line or signal cables from the back of the TV. This can damage the cords, resulting in a fire, electrical shock or malfunction of the product.

- Be sure to wear work gloves when installing the product. Installing with unprotected hands may result in injury
- Install the product according to the instructions in the installation manual. Failure to install the product according to the instructions in the installation manual can result in serious personal injury or product damage.
- Be sure to have at least two people when installing the product or adjusting the product's height. Attempting to perform installation or adjustments personally may result in personal injury or damage to the product.
- Make sure a wall is available prior to proceeding with installation. Make use of the anchors and screws provided with the product. Use of any unauthorized anchors or screws may not support the product's weight, which poses safety risks.
- When drilling in the wall for installation, be sure to use drill bits and drills of the specified diameter. Follow the instructions for the hole depth. Drilling and installing the product in ways other than specified in the installation manual may result in an unstable installation and potential safety issues.
- Do not wipe the product with a wet towel or use any heating equipment or humidifier under the place where the product is installed. Liquid water or vapor may enter the product and excessive heat may cause fire, electric shock, or malfunction.
- Do not install the product near a fire sprinkler or detector, a place where vibration or shock may occur or near a high-voltage wire or power source.
- Unplug the product's power cord from the wall outlet before installing. Installing the product while the power cord is plugged in may result in electric shock or fire.
- Do not install the product with bare hands. Be sure to wear work gloves. Attempting installation without work gloves may cause personal injury.
- Connect the product with the supplied cable. Use of an unauthorized cable may result in damage by friction with the wall. Make sure to use the supplied cable gender. (This may vary by model.)

Before Installation

(Except for OLW480B)

- Do not use the product for any purpose other than installing the TV on a wall.
- Avoid product damage and safety accidents caused by careless installing or use of improper or unauthorized wall mount.
- Follow the instructions in the installation manual for a convenient installation of the wall mount.

- Immediately discontinue installation and contact the service center if you cannot fully understand the installation process. Use a professional installer if any installation issues remain after the inquiry.
- Installation of this product on a concrete wall or wood stud is recommended. Installation of this product on other surfaces (Dry wall, plywood, bricks, etc.) is not recommended. Improper installation may result in the product falling.
- Install the product only on a vertical wall. Do not install on a tilted wall that exceeds building standards or on the heavily tilted wall or ceiling. LG is not responsible for problems caused by improper installation of the product, e.g., heavily tilted walls and ceilings.
- Check the enclosed accessories before installation. We are not responsible for any lost or damaged accessories after the inner packaging is opened.
- When an infant or small child swallows the enclosed accessories, various safety accidents such as choking may occur. Keep the enclosed accessories out of the reach of infants and children.
- When tightening screws, tighten until fully snug. Avoid using excessive force when tightening the screws. Doing so may damage the wall and product or reduce the rigidity or performance of the product.
- Avoid installing a TV that exceeds the specified tensile load, and do not allow any external force to be applied to the product.
- Avoid accidents by using work tools with care during installation.

Tools for Installation

- “+” shaped screwdriver (manual or electric) / level / drill / Ø 8 mm drill bit for concrete or Ø 4 mm drill bit for steel

Securing TV to the Wall

(Except for OLW480B)

- Please use the TV close to the wall after installation.

How to fix anchors and screws

(Except for OLW480B)

Please make sure that:

- Check that the material and thickness of the wall and finishing material comply with the installation manual. Before beginning the mounting process, you must be sure the wall is able to support the weight of the TV.
- Should use the enclosed anchors and screws on crack-free concrete walls.

- Never install the product on a plasterboard or wall made of paper or medium-density fiberboard (MDF). When it is necessary to install the product on such wall, anchor screws must be fastened to retaining walls (concrete) or wood Stud inside the finishing material.
- The wall mount should be attached to a stud. This usually will not be a problem, but depending on individual circumstances, there may be cases when the ability to mount into a stud is not possible. In this case, there are a variety of drywall anchors, such as toggle bolts, which may provide a solution. If using drywall anchors, please be sure the anchors and the wall have the ability to support the weight of your TV. Please note that the supplied anchors may not be the correct ones for your individual situation, so you should check with a local professional.
- Other unspecified walls must be capable of supporting pullout loads of over 70 kgf (154 lbf) (686 N) and shear loads of over 100 kgf (220 lbf) (980 N) per fastener.
- Use an Ø 8 mm drill bit for concrete and a hammer (impact) drill or Ø 4 mm drill bit for wood stud to drill holes.

For installation on concrete wall

1. Drill holes in anchor locations with a drill bit of Ø 8 mm to a depth of 80 mm (3.15 inches) to 100 mm (3.94 inches).
- 2 Clean the drilled holes.
- 3 Insert the enclosed anchors for fixing the wall mount into the holes. (Use a hammer when inserting anchors.)
- 4 Push the wall mount support closely toward the wall to match the hole locations.
- 5 Tighten screws for fixing the wall mount to the holes. At this time, tighten the screws to a torque of between 45 kgf/cm (39.06 lbf/in) to 60 kgf/cm (52.08 lbf/in).

For installation on wood stud

Use the Ø 4 mm drill bit for wood to drill holes with the depth of 76 mm (2.9 Inches). (Clean the drilled hole.)

Without using the wall mounting anchor, fasten the wall mounting screw directly to the wood stud.

After Installation

- When connecting additional cables from the sides, we recommend holding the centre of the TV horizontally or vertically and pulling the product to make sure there is sufficient distance from the wall before connecting.
- When connecting additional cables from the bottom, we recommend releasing the TV from the wall mount before connecting.

- Use cable management systems to arrange the cables at the bottom of the TV as shown below. Cable managements are not provided with the product, so purchase them separately.

(For example)

- After installing the product, be sure to use it adhered to the wall.
- Using the product while it is not adhered to the wall may damage or shake the product.

Antenna/Cable

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

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, try to realign the antenna in the correct direction.
- An antenna cable and converter are not supplied.
- For a location that is not supported with Ultra HD broadcasting, this TV cannot receive Ultra HD broadcasts directly.

Satellite dish

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

Starting TV

Turning on the TV

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

Using button

Power On (Press)	1) All running apps will close.
Power Off1) (Press and Hold)	2) You can access and adjust the menu by pressing the button when TV is on.
Menu Control (Press2))	3) You can use the function when you access menu control.
Menu Selection (Press and Hold3))	

Note: If the TV is turned on for the first time after it was shipped from the factory, initialization of the TV may take a few minutes.

Adjusting the menu

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

Turns the power off.	Changes the input source.
Adjusts the volume level.	Scrolls through the saved channels.

Note:

- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.

Inserting the battery

When the message [Magic Remote battery is low. Please change the battery.] is displayed, replace the battery.

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

- Do not mix new batteries with old batteries. This may cause the batteries to overheat and leak.
- Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.
- This apparatus uses batteries. In your community there might be regulations that require you to dispose of these batteries properly due to environmental considerations. Please contact your local authorities for disposal or recycling information.
- Batteries inside or inside the product shall not be exposed to excessive heat such as sunshine, fire or the like.

Registering Magic Remote Control

How to register the Magic Remote Control

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

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

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

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

How to deregister the Magic Remote Control

Press the (Back) and (Home) buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.

* Press and hold the (Home) and (Q. Settings) buttons for more than 5 seconds to disconnect and re-register the Magic Remote at the same time.

It is recommended that an Access Point (AP) be located more than 0.2 m (0.65 ft) away from the TV. If the AP is installed closer than 0.2 m (0.65 ft), the Magic remote control may not perform as expected due to frequency interference.

Connecting Smart Devices using NFC Tagging

Using the NFC Feature

NFC is technology that uses Near Field Communication, allowing you to conveniently send and receive information without separate settings. By bringing a smart device near the NFC-enabled remote control, you can install the LG ThinQ app and connect the device to the TV.

1. Turn on NFC in the smart device's settings. To use NFC with Android devices, set the NFC option to enable 'read/write tags' in the smart device's settings. The NFC settings may vary depending on the device.
2. Bring the smart device near the (NFC) on the remote control. The required distance for NFC tagging is about 1 cm (0.39 inches).
3. Follow the instructions to install the LG ThinQ app on your smart device.
4. Retagging the smart device to the remote control allows you to conveniently access various features on the connected TV through the LG ThinQ app.

Note:

This feature is available for NFC-enabled smart devices only.

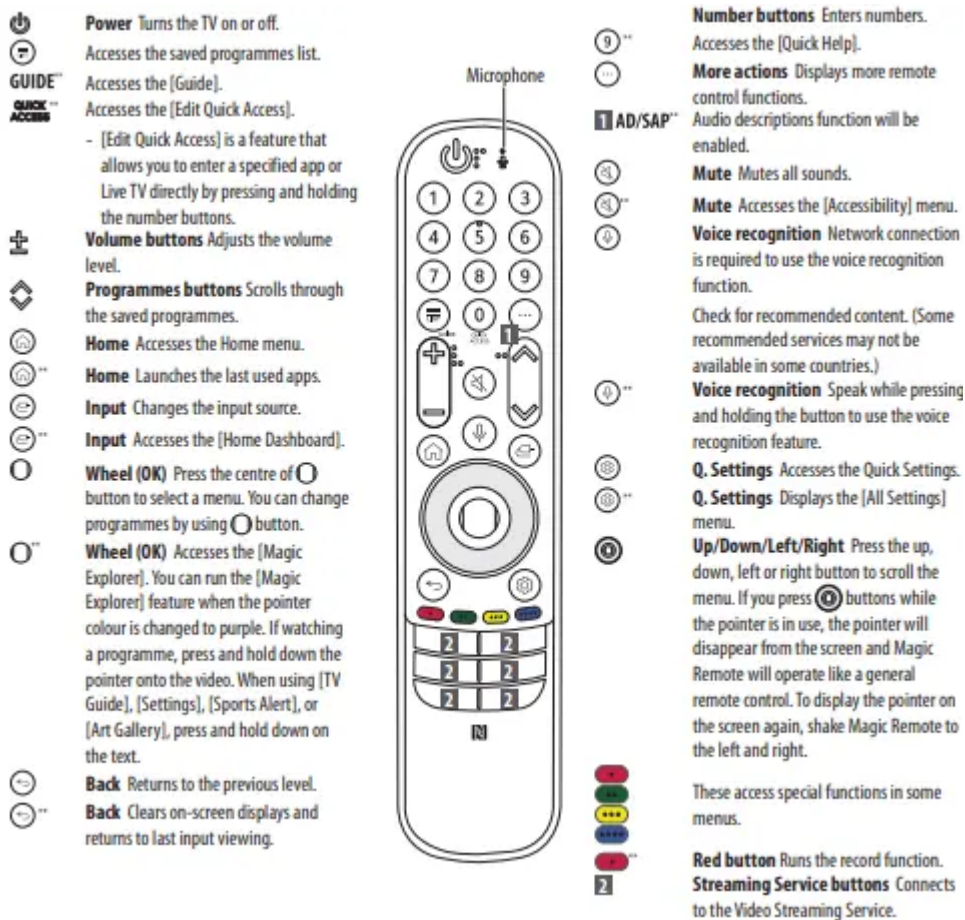
This feature is only available if the remote control has an NFC logo.

Using Magic Remote Control

Using Magic Remote Control

(Depending upon model)

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



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

Note: **To use the button, press and hold for more than 1 second.

Connections

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

HDMI

- When connecting the HDMI cable, the product and external devices should be turned off and unplugged.
- Supported HDMI Audio format (Depending upon model): True HD (48 kHz), Dolby Digital / Dolby Digital Plus (32 kHz, 44.1 kHz, 48 kHz), PCM (32 kHz, 44.1 kHz, 48 kHz, 96 kHz, 192 kHz)

Note:

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

- On: Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0), 4K @ 100/120 Hz (4:4:4, 4:2:2, 4:2:0)
- Off: Support 4K @ 50/60 Hz (4:2:0)
- 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 (9.84 ft) or less)
 - Ultra High Speed HDMI®/™ cable

USB

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



Note:

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick, 18 mm width and 8 mm a wire diameter. Use an extension cable that supports USB 2.0 or higher if the USB cable or USB memory stick does not fit into your TV's USB port.

*A ≤ 10 mm (0.39 inches)

*B ≤ 18 mm (0.7 inches)

*C ≤ 8 mm (0.31 inches)

IR Blaster

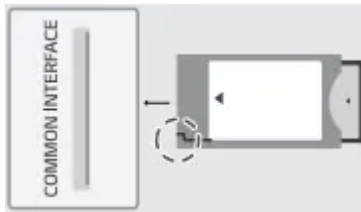
Control the set-top box (cable/satellite/IP/OTT), Blu-ray/DVD player, soundbar, game consoles, etc., using the IR Blaster. (Depending upon country)

Note:

- Connect the IR Blaster cable to the TV's IR Blaster port.
- Place both ends (one or two) of the IR Blaster in front of the external device as shown in the picture below.
- Use universal control settings to control the device. Go to → → [General] → [Devices] → [External Devices] → [Universal Control Settings].
- Secure the IR Blaster with the 3M tape provided.

CI module

- View the encrypted (pay) services in digital TV mode. (Depending on model)



Note:

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

External Devices

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

Note:

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.
- If you record a TV programme on a Blu-ray/DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information of recording, refer to the manual provided with the connected device.
- Refer to the external equipment's manual for operating instructions.
- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the [Picture] menu until the picture is clear.
- In PC mode, some resolution settings may not work properly depending on the graphics card.
- If Ultra HD content is played on your PC, video or audio may become disrupted intermittently depending on your PC's performance. (Depending on model)
- When connecting via a wired LAN, it is recommended to use a CAT 7 cable. (Only when port is provided.)

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.
- Check if the batteries are still working and properly installed (to , to).

No image display and no sound is produced.

- Check if the product is turned on.
- Check if the power cord is connected to a wall outlet.
- Check if there is a problem in the wall outlet by connecting other products.

The TV turns off suddenly

- Check the power control settings. The power supply may be interrupted.
- Check if the auto-off function is activated in the settings menu.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

When connecting to the PC (HDMI), no signal is detected.

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

Abnormal Display

- If the product feels cold to the touch, there may be a small “flicker” when it is turned on. This is normal, there is nothing wrong with product.
- This panel is an advanced product that contains millions of pixels. You may see tiny black dots and/or brightly coloured dots (white, red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund.
- You may find different brightness and colour of the panel depending on your viewing position(left/right/ top/down).

This phenomenon occurs due to the characteristic of the panel.

It is not related with the product performance, and it is not malfunction.

Generated Sound

- “Cracking” noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.
- Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It

varies depending on the product. This generated sound does not affect the performance and reliability of the product.

- 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.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.