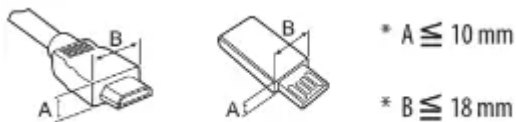


Preparing

- 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.
- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.
- The device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.
- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width. Use an extension cable that supports if the USB cable or USB memory stick does not fit into your TV's USB port.



- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI Cable Types)

-Ultra High-Speed HDMI®/TM cable (3 m or less)

Separate Purchase

Separate purchase items can be changed or modified for quality improvement without any notification. Contact your dealer to buy these items. These devices only work with certain models.

The model name or design may be changed depending on the upgrade of product functions, manufacturer's circumstances or policies.

Magic Remote Control

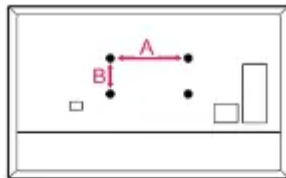
AN-MR19BA

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

Wall Mounting Bracket

(Depending on 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.



Model	49SM81* 49SM86*	55SM81* 55SM86* 55SM90*
VESA (A x B) (mm)	200 x 200	300 x 300
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW240B MSW240	OLW480B MSW240
Model	65SM81* 65SM86* 65SM90* 65SM94* 65SM95*	75SM86* 75SM90* 75/86SM94* 75SM99*
VESA (A x B) (mm)	300 x 300	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket	OLW480B	LSW640B

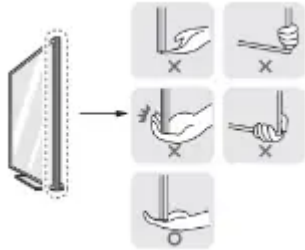
Lifting and moving the TV

Please note the following advice 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 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 apply excessive pressure to cause flexing / bending of frame chassis as it may damage screen.
- When handling the TV, be careful not to damage the protruding buttons.

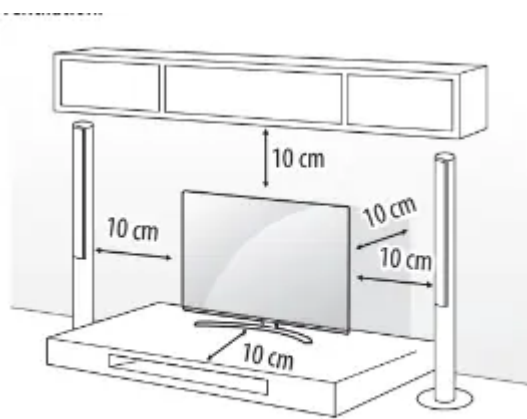
Warning:

- 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 a Table

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

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



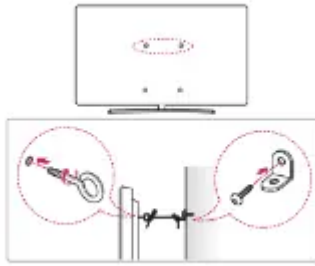
(Depending on model)

2. Connect the power cord to a wall outlet.

Warning:

- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.
- Do not use any unapproved items to ensure the safety and product life span.
- Any damage or injuries caused by using unapproved items are not covered by the manufacturer's warranty.
- Make sure that the screws are inserted correctly and fastened securely. (If they are not fastened securely enough, the TV may tilt forward after being installed.) Do not use too much force and over tighten the screws; otherwise screw may be damaged and not tighten correctly.
- If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
 - Using cabinets or stands recommended by the manufacturer of the television.
 - Only using furniture that can safely support the television.
 - Ensuring the television is not overhanging the edge of the supporting furniture.
 - Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
 - Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
 - Educating children about the dangers of climbing on furniture to reach the television or its controls.

Securing TV to the Wall

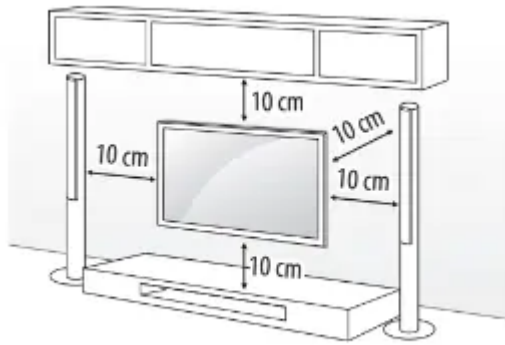


(Depending on model)

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. Make sure to keep the rope horizontal with the flat surface.
 - Use a platform or cabinet that is strong and large enough to support the TV securely.
 - Brackets, bolts and ropes are not provided. You can obtain additional accessories from your local dealer.

Mounting to the Wall

Attach an optional wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel. LG recommends that wall mounting be performed by a qualified professional installer. We recommend the use of LG's wall mount bracket. LG's wall mount bracket is easy to move with cables connected. When you do not use LG's wall mount bracket, please use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. It is advised to connect all the cables before installing fixed wall mounts.

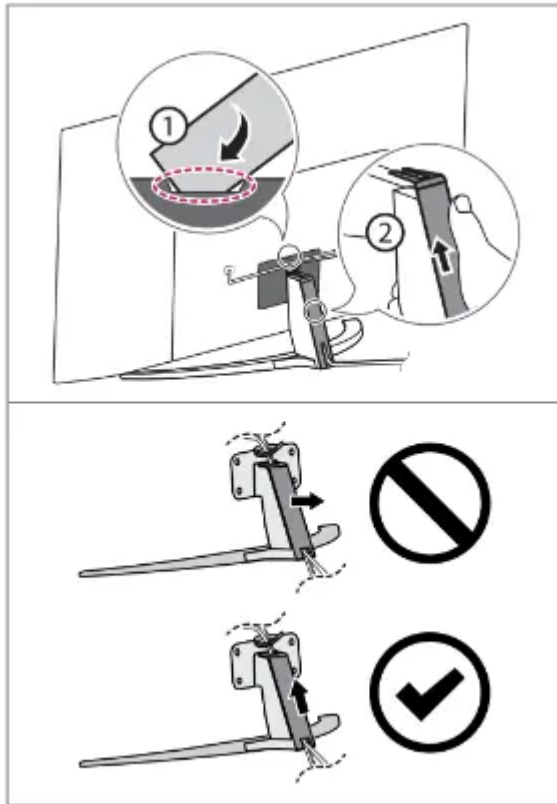


(Depending on model)

Warning:

- 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.

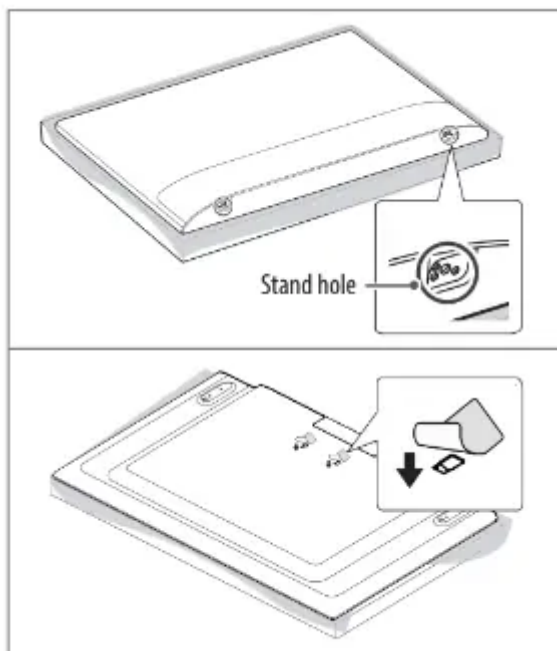




(Depending on model)

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

- When installing the wall mounting bracket, it is recommended to cover the stand hole using tape, in order to prevent the influx of dust and insects. (Depending on model)



Connections

Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.

1. 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.

2. Satellite dish

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

3. CI module

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

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




4. 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. Some separate cable is not provided.

5. HDMI

- Supported HDMI Audio format (Depending on model): DTS (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz), DTS HD (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz), True HD (48 kHz),

Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz), PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)

-  →  () → [Picture] → [Additional Settings] →

[HDMI ULTRA HD Deep Colour]

- On: Support 4K @ 50/60 Hz (4:4:4, 4:2:2, 4:2:0)

- Off: Support 4K @ 50/60 Hz 8 bit (4:2:0)

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

6.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.

7.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.


- 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 program on a Blu-ray/DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information 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.)

Using Button

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







Basic functions

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

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

Adjusting the menu

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

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

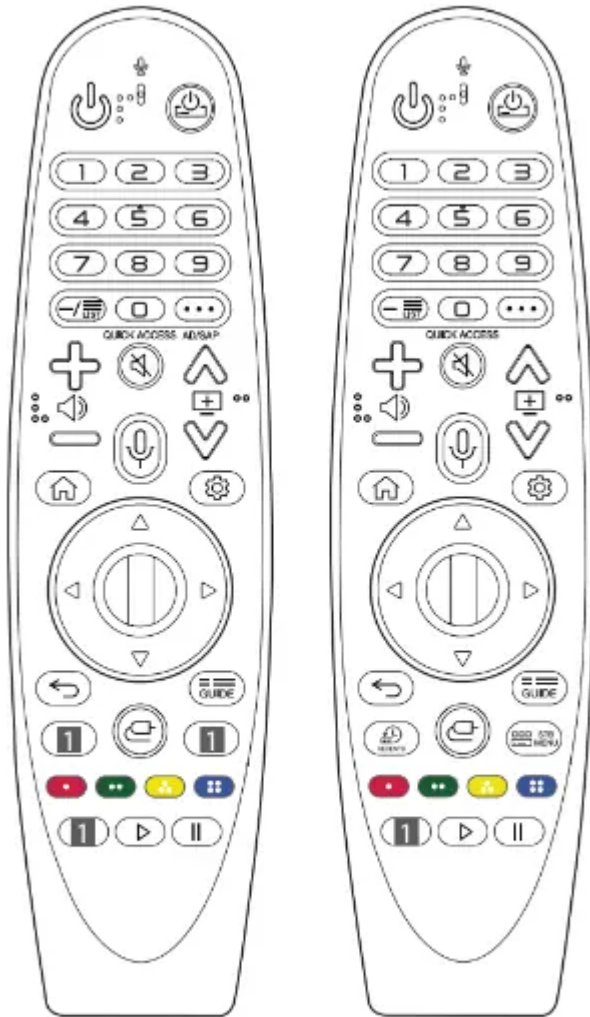
Using Magic Remote Control

(Depending on model)

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


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

To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching the \oplus and \ominus ends to the label inside the compartment, and close the battery cover. Be sure to point the magic remote toward the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse.



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


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

-  **(POWER)** Turns the TV on or off.
-  **(STB POWER)** You can turn your set-top box on or off by adding the settop box to the universal remote control for your TV.
- Number buttons** Enters numbers.
-  Accesses the [QUICK HELP].
-  **(DASH)** Inserts a — between numbers such as 2-1 and 2-2.
-  Accesses the saved programmes list.
-  **(MORE ACTIONS)** Displays more remote control functions.
- QUICK ACCESS** Edits QUICK ACCESS
 - QUICK ACCESS is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.
- AD/SAP** Audio descriptions function will be enabled.
-  Adjusts the volume level.
-  **(MUTE)** Mutes all sounds.
-  **(MUTE)** Accesses the [Accessibility] menu.
-  Scrolls through the saved programmes.
-  **(Voice recognition)** Network connection is required to use the voice recognition function. Once the voice display bar is activated on the TV screen, press and hold the button and speak your command out loud.
-  **(HOME)** Accesses the Home menu.
-  **(HOME)** Shows the previous history.
-  **(Q. Settings)** Accesses the Quick Settings.
-  **(Q. Settings)** Displays the [All Settings] menu.
-  **Wheel (OK)** Press the center of  button to select a menu. You can change programmes by using  button.
-  **(up/down/left/right)** Press the up, down, left or right button to scroll the menu. If you press  buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.
-  **(BACK)** Returns to the previous level.
-  **(BACK)** Clears on-screen displays and returns to last input viewing.
-  Shows programme guide.
-  **Streaming Service buttons** Connects to the Video Streaming Service.
-  Shows the previous history.
-  **(INPUT)** Changes the input source.
-  **(INPUT)** Accesses the [HOME DASHBOARD].
-  Displays the set-top box Home menu.
- When you are not watching via a set-top box: the display changes to the set-top box screen.
-  These access special functions in some menus.
-  Runs the record function.
-  Enter Cheering mode.
-  **(Control buttons)** Controls media contents.

Registering Magic Remote Control



How to register the Magic Remote Control

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

1. Put batteries into the Magic Remote and turn the TV on.
2. Point the Magic Remote at your TV and press the  Wheel (OK) on the remote control.

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

How to deregister the Magic Remote Control

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




* Pressing and holding the button will let you cancel and reregister Magic Remote at once.

Warning:

- 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.
- In Analogue TV and some countries, some remote control buttons may not work.

User Guide

For more information about this TV, read the USER GUIDE embedded in the product. (Depending on model)

- To open the USER GUIDE:  →  () → [General] → [About This TV] → [User Guide]

Troubleshooting

Cannot control the TV with the remote control.

- Check the remote control sensor on the product and try again.
- 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 on the settings related time.
- If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

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

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

Abnormal Display

- If the 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 (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.
- Displaying a still image for a prolonged period of time may cause image sticking. Avoid displaying a fixed image on the TV screen for a long period of time.

Generated Sound

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

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



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

Specifications

(Depending on country)

Broadcasting Specifications		
	Digital TV (Depending on country)	Analogue TV (Depending on country)
Television system	DVB-T/T2 ¹ DVB-T2/C/S/S2 ²	PAL B/B, PAL B/G, PAL D/K, PAL-I SECAM B/G, SECAM D/K NTSC-M
Programme coverage	VHF, UHF C-Band ³ , Ku-Band ³	VHF, UHF, CATV
Maximum number of storable programmes	DVB-T/T2 & Analogue TV : 3,000 DVB-S/S2 : 6,000	
External antenna impedance	75 Ω	
CI Module ³ (W x H x D)	100.0 mm x 55.0 mm x 5.0 mm	

1. Only DVB-T2 support models. (Despite DVB-T2 model, DVB-T/T2 function does not apply in Philippines.)
2. Only DVB-T2/C/S2 support models.
3. Depending on model.

Wireless module(LGSBWAC92)Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range	Output Power (Max.)
2400 to 2483.5 MHz	18 dBm
5150 to 5725 MHz	18 dBm
5725 to 5850 MHz (Not for EU)	12 dBm
Bluetooth	
Frequency range	Output power(Max.)
2400 to 2483.5 MHz	8 dBm
As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table. For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body. * IEEE 802.11ac is not available in all countries.	

(Australia and New Zealand region only)



The use of the 5,150 – 5,350 MHz band is restricted to indoor use only. This restriction exists in the countries Australia (AU) and New Zealand (NZ). (For Wi-Fi/Bluetooth built-in model or Wi-Fi built-in model)

“RF Radiation Exposure Statement

This equipment shall be installed and used at a minimum distance of 20 cm from the human body.”

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

- The energy information provided with the product is indicated in accordance with the regulations of each country. (Depending on Country)

- The Energy consumption is measured in accordance with IEC 62087.

- Actual Energy consumption may vary depending on factors such as the type of video content being played and TV settings.




SMART TV Quick Setup Guide

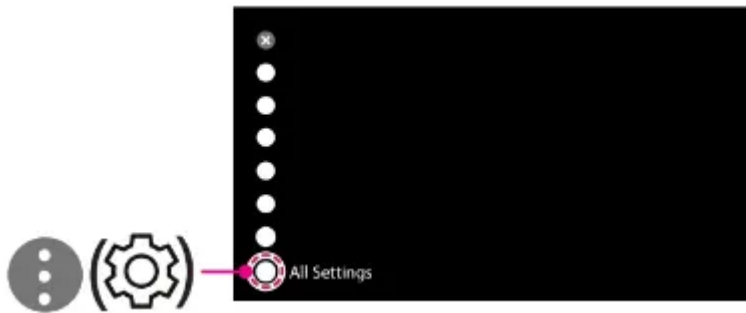
* Image shown may differ from your TV.

* Image shown on a PC or mobile phone may vary depending on the OS(Operating System).

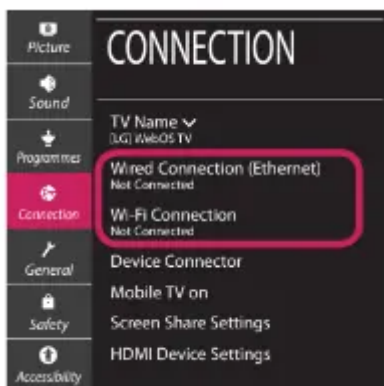
* App icon positions may vary on the platform, depending on the software version.

Network Settings

1. Press the  (Settings) on the remote to access the settings menu. Point the ( ) [All Settings] icon and select by pressing the Wheel (OK) button on the remote.



2. Select the [Connection] → [Wired Connection(Ethernet)] or [Wi-Fi Connection].



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



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




4. If the connection is successful, the "[Connected to Internet]" is displayed.

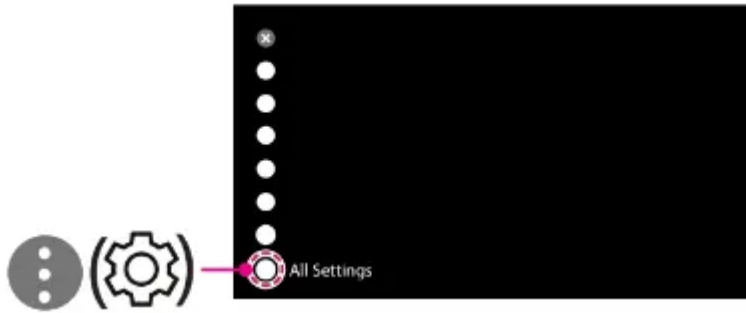


You can check the status of connection in [Advanced Wi-Fi setting].

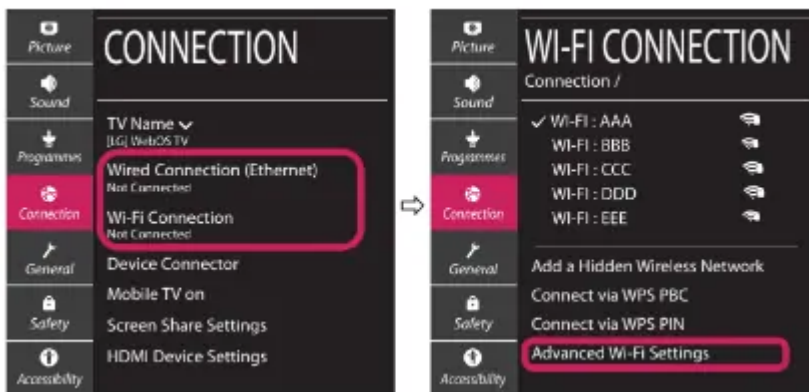


Troubleshooting Network Problems

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



2. Select the [Connection] → [Wired Connection (Ethernet)] or [Wi-Fi Connection] → [Advanced Wi-Fi Settings].



Follow the instructions below that correlate to your network status.

Check the TV or the AP (Router)



When X appears next to TV:

1. Check the connection status of the TV, AP (Router).
2. Power off and power on the TV, AP (Router).
3. If you are using a static IP, enter the IP directly.
4. Contact internet service provider or AP (Router) company.

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



When X appears next to Gateway:

1. Unplug the power cord of the AP (Router) and try to connect after 5 seconds.
2. Initialize (Reset) the AP (Router).

3. Contact internet service provider or AP (Router) company.



When X appears next to DNS:

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

SmartShare Connection to Smartphone

1. Check that Wi-Fi is enabled on your smartphone. To use SmartShare, both devices must be on the same local network.
2. Install/run the app for sharing content on your smartphone (It's called LG TV Plus on LG phones).
3. Enable your smartphone to share content files with other devices.
4. Select the file type you want to play (movie, audio or photo).
5. Select a movie, music or photo file to play on the TV.
6. Play the media file to view and enjoy it on your TV.

Updating the TV Firmware

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

1. (Settings) → () [All Settings] → [General] → [About This TV] → [CHECK FOR UPDATES]
2. After checking the version of the software, update it. If you check the "[Allow Automatic Updates]", you can update the software automatically.



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.