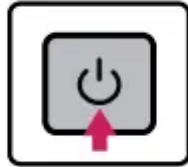


## Starting TV

### Turning on the TV

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



Power On (Press)

Power Off<sup>1</sup>) (Press and Hold)

Menu Control (Press<sup>2</sup>)

Menu Selection (Press and Hold<sup>3</sup>)

1. All running apps will close, and any recording in progress will stop. (Depending on country)
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.

### 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.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- 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.

## Connections

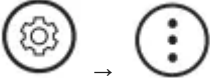
Connect various external devices to the TV and switch input modes to select an external device. For more information of external device's connection, refer to the manual provided with each device.

## HDMI

- When connecting the HDMI cable, the product and external devices should be turned off and unplugged.
- Supported HDMI Audio format (Depending on 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 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 Deep Colour] setting to off.

-  → [General] → [Devices] → [HDMI Settings] → [HDMI Deep Colour]

- 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®/™ cable (3 m or less)

## 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. (Depending on model)

### 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 if the USB cable or USB memory stick does not fit into your TV's USB port. (Depending on model)

## IR Blaster

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

### Note

- Connect the IR Blaster cable to the TV's IR Blaster port.
- Use universal control settings to control the device.
- Secure the IR Blaster with the 3M tape provided.

## 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.
- 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 to a wired LAN, use a CAT 7 cable with high-speed Internet transmission. (Only when LAN port is provided.)

## Specifications

(Depending on country)

Broadcasting Specifications				
	Digital TV (Depending on country)			Analogue TV (Depending on country)
Television system	DVB-S/S2 DVB-T/T2 DVB-C			PAL/SECAM B/G, D/K, I SECAM L
Program coverage	DVB-S/S2 950 ~ 2,150 MHz	DVB-C 46 ~ 890 MHz	DVB-T/T2 VHF III : 174 ~ 230 MHz UHF IV : 470 ~ 606 MHz UHF V : 606 ~ 862 MHz S Band II : 230 ~ 300 MHz S Band III : 300 ~ 470 MHz	46 ~ 862 MHz
Maximum number of storable programmes	6,000		3,000	
External antenna impedance	75 Ω			
CI Module (W x H x D)	100.0 mm x 55.0 mm x 5.0 mm			

- Certain 8K input/decoding standards may not be supported. An additional device may be necessary to support certain 8K standards. Upscaled and enhanced 8K images will vary depending on the source content. (Depending on model)

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 %

- For information of the power supply and power consumption, refer to the label attached to the product.
  - The typical power consumption is measured in accordance with IEC 62087 or each country's energy regulations.
  - \* On some models, the label is inside the external device connection terminal cover.
  - \* Depending on the model or country, the typical power consumption may not be on label.

## Product Information

(Only QNED96\*, QNED99\*)

Wireless module (LGSBWAX12) Specifications	
Wireless LAN (IEEE 802.11a/b/g/n/ac/ax)	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	17 dBm
5,150 to 5,725 MHz	15 dBm
5,725 to 5,850 MHz	13 dBm
5,945 to 6,425 MHz (Only EU/UK)	11 dBm
Bluetooth	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	9 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.

(Only QNED80\*, QNED81\*, QNED82\*, QNED86\*, QNED87\*, QNED91\*, 86NANO75\*, 86NANO76\*, 86UQ80\*, 86UQ90\*, 86UQ91\*)

<b>Wireless module (LGSBWAC95) Specifications</b>	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	19 dBm
5,150 to 5,725 MHz	18 dBm
5,725 to 5,850 MHz	13.5 dBm
Bluetooth	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	9 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

(Only 70/75UQ75\*)

<b>Wireless module (LGSBWAC02) specifications</b>	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	17 dBm
5,150 to 5,725 MHz	19 dBm
5,725 to 5,850 MHz	10.5 dBm
Bluetooth	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	8.5 dBm

As band channels can vary per country, the user cannot change or adjust the operating frequency. This product is configured for the regional frequency table.

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body

(Except for QNED80\*, QNED81\*, QNED82\*, QNED86\*, QNED87\*, QNED91\*, QNED96\*, QNED99\*, 86NANO75\*, 86NANO76\*, 70/75UQ75\*, 86UQ80\*, 86UQ90\*, 86UQ91\*)



<b>Wireless module (LGSBWAC03) specifications</b>	
Wireless LAN (IEEE 802.11a/b/g/n/ac)	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	18.5 dBm
5,150 to 5,725 MHz	19.5 dBm
5,725 to 5,850 MHz	11.5 dBm
Bluetooth	
Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	9 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.



## Using Magic Remote Control



Power Turns the TV on or off.



Accesses the [Guide].

**LIST\*\*** Accesses the saved programmes list.

**QUICK \*\*  
ACCESS** Accesses the [Edit Quick Access].

- [Edit Quick Access] is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.



Volume buttons Adjusts the volume level.



Home Accesses the Home menu.



Home Launches the last used apps.



Wheel (OK) Press the centre of



button to select a menu. You can change

programmes by using



button.



Wheel (OK) Accesses the [Magic Explorer]. You can run the [Magic Explorer] feature when the pointer colour is changed to purple. If watching a programme, press and hold down the pointer onto the video. When using [TV Guide], [Settings], [Sports Alert], or [Art Gallery], press and hold down on the text.



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.

Number buttons Enters numbers.



Accesses the [Quick Help].



More actions Displays more remote control functions.

## AD/SAP\*\*

Audio descriptions function will be enabled.



Programme buttons Scrolls through the saved programmes.



Mute Mutes all sounds.



Mute Accesses the [Accessibility] menu.



Voice recognition Network connection is required to use the voice recognition function.

Check for recommended content. (Some recommended services may not be available in some countries.)



Voice recognition Speak while pressing and holding the button to use the voice recognition feature.



Input Changes the input source.



Input Accesses the [Home Dashboard].



Q. Settings Accesses the Quick Settings.



Q. Settings Displays the [All Settings] menu.



These access special functions in some menus.



Red button Runs the record function.



Streaming Service buttons Connects to the Video Streaming Service.

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

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.)

## 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.

## WARNING:


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



## Using Always Ready (Depending upon model)


You can operate the TV and connect to Bluetooth with direct voice recognition while the power is off.


 →  → [General] → [Always Ready], setting [Enable the function] to on.

\* Pressing the  button while watching TV switches the screen to [Always Ready] that is

turned on, and pressing the  button once more turns the screen to [Always Ready] that is turned off.

\* Press the  (Home) button or the  (Back) button to watch TV when the screen is in [Always Ready] that is turned on.



\* Press the  Wheel (OK) button to display the wallpaper when the screen is in [Always

Ready] that is turned off, and press the  button to watch TV.

## Note

- Using Always Ready may increase energy consumption.

•

For more information about the feature, refer to the  →  → [Support] → [User Guide] → [Troubleshooting] → [Learn More About Always Ready].

## Connecting Smart Devices using NFC Tagging

NFC is technology that uses Near Field Communication (13.56 MHz), 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.

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

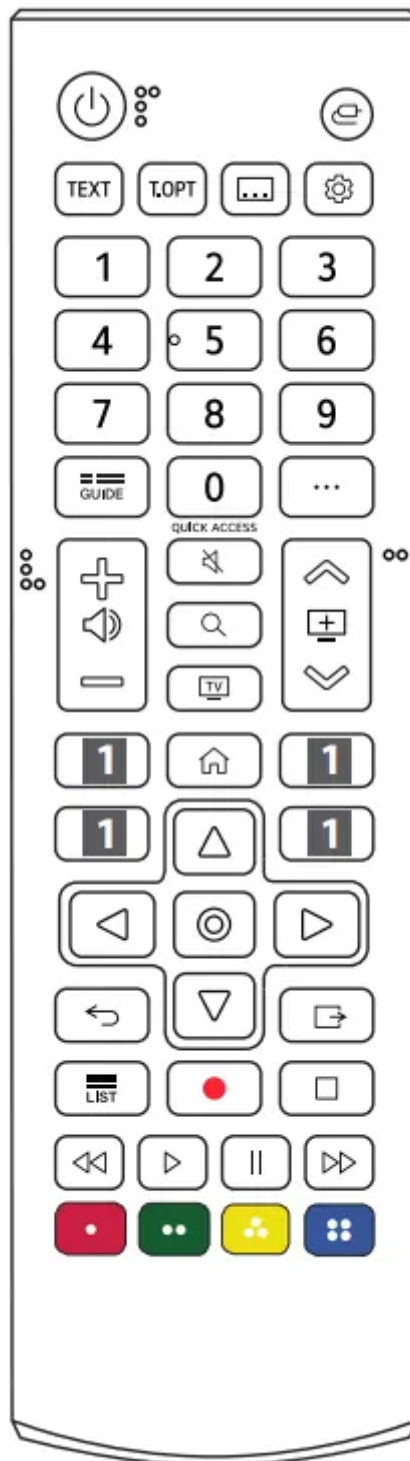
#### Specifications

<b>Specifications (MR22GN, MR22GA)</b>		
	<b>Frequency range</b>	<b>Output Power (Max.)</b>
<b>Bluetooth</b>	2,400 to 2,483.5 MHz	7 dBm
<b>NFC*</b>	13.553 to 13.567 MHz	-13.27 dBuA/m @ 10 m

\* Only MR22GN



## Using Remote Control



Power Turns the TV on or off.



Teletext buttons These buttons are used for teletext.



Shows programme guide.



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.



Volume buttons Adjusts the volume level.



Programme buttons Scrolls through the saved programmes.



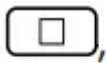
OK Selects menus or options and confirms your input.



OK Accesses the [Magic Explorer]. When using [TV Guide], [Settings], [Sports Alert], or [Art Gallery], press and hold down on the text.



Accesses the saved programmes list.



Control buttons Control buttons for media contents.



Starts to record and displays record menu. (Only Time MachineReady supported model)



Input Changes the input source.



Recalls your preferred subtitle in digital mode.

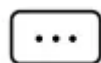


Q. Settings Accesses the Quick Settings.

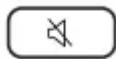
Number buttons Enters numbers.



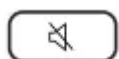
Accesses the [Quick Help].



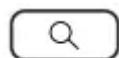
More actions Displays more remote control functions.



Mute Mutes all sounds.



Mute Accesses the [Accessibility] menu.



Search Check for recommended content. (Some recommended services may not be available in some countries.)

Search for content such as TV programmes, movies and other videos, or perform a web search by entering text in the search bar.



You can watch TV or LG Channels.



Home Accesses the Home menu.



Home Launches the last used apps.



Navigation buttons (up/down/left/ right) Scrolls through menus or options.



Back Returns to the previous level.



Clears on-screen displays and returns to TV viewing.



These access special functions in some menus.

## 1


Streaming Service buttons Connects to the Video Streaming Service.

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

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.) (Depending on model)

# Troubleshooting



<p><b>Cannot control the TV with the remote control.</b></p>	<ul style="list-style-type: none"> <li>• Check the remote control sensor on the product and try again.</li> <li>• Check if there is any obstacle between the product and the remote control.</li> <li>• Check if the batteries are still working and properly installed (  ).</li> </ul>
<p><b>No image display and no sound is produced.</b></p>	<ul style="list-style-type: none"> <li>• Check if the product is turned on.</li> <li>• Check if the power cord is connected to a wall outlet.</li> <li>• Check if there is a problem in the wall outlet by connecting other products.</li> </ul>
<p><b>The TV turns off suddenly</b></p>	<ul style="list-style-type: none"> <li>• Check the power control settings. The power supply may be interrupted.</li> <li>• Check if the auto-off function is activated on the settings related time.</li> <li>• If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity</li> </ul>
<p><b>When connecting to the PC (HDMI), no signal is detected.</b></p>	<ul style="list-style-type: none"> <li>• Turn the TV off/on using the remote control.</li> <li>• Reconnect the HDMI cable.</li> <li>• Restart the PC with the TV on.</li> </ul>
<p><b>Abnormal Display</b></p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul>

	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>Generated Sound</b>	<ul style="list-style-type: none"> <li>• “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.</li> <li>• 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.</li> </ul>

**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.

**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.

