



User Guide

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

Contents

Getting Started with LG webOS TV

Home Tutorial	5
Manage Home	6
Prepare Live TV	7
Connecting to the Network	7
Managing Your LG Account	10
Using Always Ready	11
About User Guide	13

How to Operate TV

Pairing the Magic Remote	14
Using the Magic Remote	15
Using TV features with Hands-free Voice Control	17
Using TV Functions through Speech	19
Speech to Text	21
Control your TV with your voice with Google Assistant	23
Access Voice Recognition Using Amazon Alexa	23
To View More Features of the Remote Control	24
Using Universal Remote Control	25
Launching Apps through QUICK ACCESS	26
Connecting to SIMPLINK (HDMI-CEC)	27
Shortcuts to Accessibility	28
Connecting an Input Device to USB	29

Enjoy Live TV

Making the Most of Live Menu	30
Viewing Guide	31
Checking Program Info	32
Who.Where.What?	33
Using TV Scheduler	36
Watching Internet Channel (LG Channels)	37

Apps and Content

Installing Apps	38
Content Recommendation	39
Content Search	40

Connecting External Devices

Using Home Dashboard	41
Connecting Home IoT Devices	43
Connecting Smart Devices	44
Watching Smart Device Screen on TV	46
Playing Sound from a Smart Device through the TV's Speakers	47
Connecting USB	47
Using the Media Player	48
Viewing Photos	49
Playing Videos	50
Listening to Music	51
Sharing PC Content	52
Watching PC Screen on TV	54

Making the Most of Smart TV

To Use Magic Explorer	55
Using Multi View	56
Using the Room to Room Share	58
Making the Most of Art Gallery	59
Surfing the Internet on TV	59
Connecting a Camera to the TV	63
Using Sports Alert	64
Live Plus	64

Settings

Quick Settings	65
Picture	67
Sound	76
Always Ready	85
AI Service	85
Game Optimizer	88
OLED Care	91
Family Settings	94
Channels	95
Network	97
Devices	98
System	102
Accessibility	111
Support	114

Troubleshooting

Perform Check-up with the Quick Help	115
Learn More About Always Ready	116
Troubleshooting Power/Remote Control Issues	117
Troubleshooting Screen Issues	119
Troubleshooting Sound Issues	121
Troubleshooting PC Connection Issues	123
Troubleshooting Movie Playback Issues	124
Troubleshooting Network Connection Issues	125
Troubleshooting LG Account Issues	127
Troubleshooting Contents Issues	128
Troubleshooting Internet Browser Issues	129


Being Aware of the Information

Supported Photo File Formats	130
Supported Video File Formats	131
Supported Music File Formats	133
Supported Resolution : HDMI-DTV	135
Supported Resolution : HDMI-PC	139
License Information	142

Getting Started with LG webOS TV

Home Tutorial



Using the Home Feature of the LG webOS TV

You can open the Home screen by pressing the  button on your remote control. Roll the **Wheel (OK)** button on the Magic Remote to scroll through the menu. You can open apps and content or use various features of the smart TV.

- Standard remote control allows you to scroll through the menu with the / buttons.




- 1 You can check weather information and useful TV features.
 - 2 You can log in to your **LG Account** or view basic information about the account to which you are currently logged in.
For more information, see **Getting Started with LG webOS TV → Managing Your LG Account** in **User Guide**.
 - 3 Launch **Search**.
To see the details, click the **Apps and Content → Content Search** in **User Guide**.
 - 4 You can get recommendations from various channels and programs.
 - You must log in to your LG account to get personalized content recommendations.
 - You must connect to the network to use the recommendation feature.
 - 5 You can run, move, and delete the apps installed on your TV.
- **App List** and **Top Picks For You** are automatically shown on the screen each time the TV


is turned on. To change the Home screen display, change the setting of **Home Auto Launch** in  →  → **General** → **System** → **Additional Settings** → **Home Settings**.

- The availability of and access to Contents and Services in LGE Device are subject to change at any time without prior notice.
- Available features vary depending on the region or service.

Manage Home

Manage LG webOS TV Home

You can change the order of the displayed apps or content lists by pressing the  button on the remote control.

Roll the **Wheel (OK)** button on the Magic Remote to scroll through the menu. You can enter edit mode by selecting  located at the bottom of the screen.



- 1 Enters the **Edit App List** mode.

Depending on your usage pattern, you can set the app order automatically or edit it yourself.

- After selecting the app you wish to edit from **App List** on the Home screen, press and hold the **Wheel (OK)** button on the remote control, or select the **Edit App List** button located in the last area of **App List** to enter **Edit App List** mode.

- 2 Enters the **Edit Contents List** mode.

You can directly edit the order of the content list displayed in Home.

- 3 **Reset App Order** : Resets the order of items in the app list.

Reset Usage Data : It resets the content view history and the app usage history. If you reset them, it takes some time to receive recommendations for contents again.

Home Settings : When turning the power on, go to the screen that sets the Home behavior or advertising display.

User Guide : Move to the **User Guide** app.

- Items that can be set may vary depending on the edit mode.

 Exits edit mode.



Prepare Live TV

Watching TV Broadcasting

01 Connect the broadcast antenna/cable to the TV.

02 Launch  →  → **General** → **Channels** → **Channel Tuning** → **Auto Tuning**.

Finds and adds only channels being broadcast.

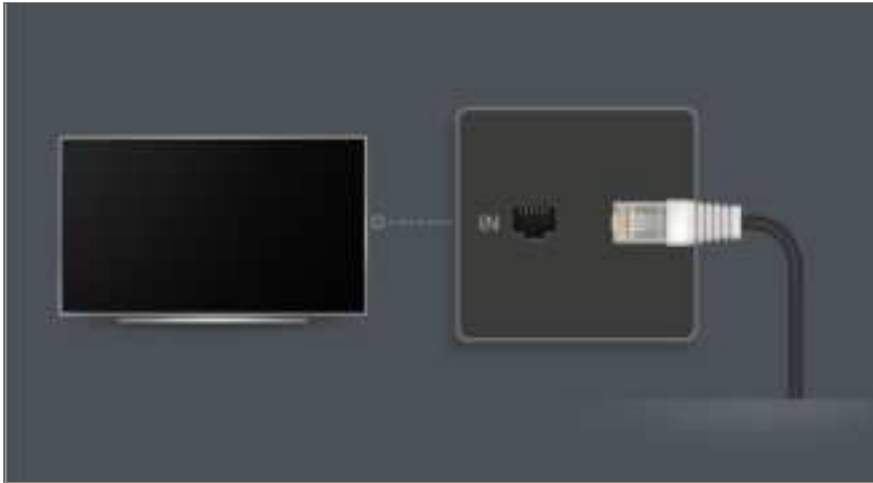
- You may also connect a piece of equipment that can receive broadcasting such as a set-top box instead of the antenna/cable.
Launch  →  → **General** → **Devices** → **External Devices** → **Universal Control Settings**.
- To solve a problem related to this function, refer to **Troubleshooting** section of the **User Guide**.

Connecting to the Network

Connecting to the Network

If you configure settings for the network, you can use various services such as online contents and applications.


Setting a Wired Network



- 01 Connect the LAN port of the TV and the router using a LAN cable.
The router should be connected to the Internet beforehand.

- When you connect the TV to the network with a LAN cable, the TV is automatically connected to the network if the router supports DHCP.

If the Network Is Not Automatically Connected



- 02 Press the  button on the remote control.
- 03 Select  → **General** → **Network** → **Wired Connection (Ethernet)**.
To see the details, click the **Settings** → **Network** → **Wired Connection (Ethernet)** in **User Guide**.

- Some models may not be supported.

Setting a Wireless Network



- 01 Turn on the power of the router connected to the Internet.

- 02 Press the  button on the remote control.
- 03 Select  → **General** → **Network** → **Wi-Fi Connection**.
- 04 When the network search is complete, the list of networks available for connection is shown.
- 05 Select a network to connect.
If your Wireless Router is password protected, enter the password configured for the router.
To see the details, click the **Settings** → **Network** → **Wi-Fi Connection** in **User Guide**.

Network Setting Warnings

- Use standard LAN cable (connect to Cat7 or higher with an RJ45 connector, 10 Base-T, or 100 Base TX LAN port).
- Resetting the router may cause network connection problems. In this case, the router will operate normally if you turn it off and disconnect the TV, and then reconnect and turn it on.
- LG Electronics is not responsible for network connectivity or operation failure due to problems such as equipment failure or disconnected lines.
- The network connection may not work properly because of network settings or the Internet service provider.
- DSL service must use a DSL modem and cable service must use a cable modem. Since only a limited number of network connections may be available, TV network settings may not be used depending on the contract with Internet service provider. (If the contract does not allow more than one device per line, only the already-connected PC may be used.)
- A wireless network can experience interference from other devices that use the 2.4 GHz frequency (wireless phone, Bluetooth device, or microwave oven). Although interference can also happen when using the 5 GHz frequency, it is less likely to occur.
- The wireless environment can make wireless network service run slowly.
- Using several wireless devices at the same time can slow your network.
- The access point device must support wireless connections and wireless connection feature must be enabled on the device to have AP (access point) connection. Contact the service provider for availability of wireless connections on the access point.
- Check SSID and security settings of the AP. Refer to the appropriate documentation for SSID and security settings of the AP.
- If the network is changed by moving the TV or changing the router, you must set up the wireless network again. Existing wireless network connections will not be saved.
- Invalid settings of network devices (wired/wireless line sharer, hub) can cause the TV to operate slowly or not operate properly. Install the devices correctly according to the appropriate manual and network.
- The connection method may differ depending on the AP manufacturer.



- To solve a problem related to this function, refer to **Troubleshooting** section of the **User Guide**.

Managing Your LG Account

LG Membership



You can receive customized recommendations and utilize various app services with your **LG Account**.

In **LG Account**, you can sign up for LG membership with an email address. Alternatively, you can create and log in to an LG membership using the ID and password of an external service account.

- 01 Select  →  → **General** → **System** → **LG Account**.
- 02 Choose one from the three options, **Sign in with the LG ThinQ App/Sign in with the Mobile Web/Sign in with the TV remote**, and sign up for LG membership.
- 03 Agree to the User Agreements and enter the information required to sign up.
 - Required information may vary depending upon the country.
- 04 A verification link will be sent to the email address you entered when you signed up. Please complete email verification within the validity period.
- 05 Once your email address is verified, you can log in with your credentials.
 - This feature may not be available in some countries.
 - Age restrictions may apply for signing up.
 - To solve a problem related to this function, refer to **Troubleshooting** section of the **User Guide**.

Managing Your LG Account

You can view or edit your information of the account currently logged in. You can change your password or edit your account information.

- 01 Press the  button on the remote control.
- 02 Go to  → **General** → **System** → **LG Account** to log in.

Using Always Ready

Using Always Ready

Turning off the TV switches it to **Always Ready** and displays the selected screen wallpaper, and then you can use voice recognition or output sound from your smart device to the TV speaker.

01 Set the **Enable the function** of   **General**  **Always Ready** to **On**.



■ Turning this option **On** may increase energy consumption.

02 Press the  button on the remote control. The wallpaper is displayed.

Press the **Wheel (OK)** button on the remote control to display the wallpaper when the TV is **Always Ready** with the screen off.

03 Set your preferred wallpaper.



① You can move between categories by pressing the   buttons on the remote control or by using the **Wheel (OK)** button on Magic Remote.

② You can choose which content to display from the options menu.



1 Select the screen to display with **Always Ready**.

Clock : You can display the time and weather information of the region for which the TV is set.

Weather is displayed as the local weather of the region set on the Home screen.

Art Piece : You can set various art as your wallpaper.

Movements : You can set various media art as your wallpaper.

Moments : You can set a photo saved in a connected external device or a photo of a smart device connected to the LG ThinQ as the wallpaper.

Sound Palette : You can play music from a device connected via Bluetooth or USB.

2 You can make detailed settings for **Always Ready**.



Get Notifications : Even when the screen is off, you can receive notifications from external devices set on **Home Dashboard**.

Screen Off : The time can be set to automatically turn off the screen.

Slide Show Speed : You can set the playback speed for the photos with **Art Piece** or **Moments**.

Set Time to Turn On : You can set the time when the wallpaper turns on when the TV is **Always Ready** with the screen off.

Connect Illumination Sensor : Controls the brightness of **Always Ready** in conjunction with the ambient light sensor.

Go to Settings : Move to the  →  → **General** → **Always Ready**. You can turn the **Always Ready** feature on or off from the corresponding Settings menu.

Exit **Always Ready** and Watch TV

To watch TV when it is on **Always Ready** with the screen on, press the  button or the  button on the remote control.

The Hands-free Voice Control feature can be used to command the desired function to be executed.




When it is on **Always Ready** with the screen off, the TV can be turned on by pressing the  button on the remote control or by Hands-free Voice Control.

Press the **Wheel (OK)** button on the remote control to display the wallpaper when the

TV is **Always Ready** with the screen off. The wallpaper is displayed.

Using **Always Ready** Without Screen Wallpaper



Even when the screen is off, you can play music using voice recognition or by connecting to a smart device via Bluetooth. Users can turn off only the screen in **Always Ready** using the below method.

- Method 1. When the TV is **Always Ready** with the screen on, press the  button on the remote control once more.
 - Method 2. Set the **Screen Off** time in the **Always Ready** settings menu. The wallpaper will be turned off automatically after the set time.
 - Method 3. Select **Use Always Ready without wallpaper** in  →  → **General** → **Always Ready**. You can always use **Always Ready** with the screen off without going through the wallpaper.
- The screen may take a few seconds to respond to your voice, depending on the model.
 - When the power is turned off for the first time after a software update, **Always Ready** does not work to reflect the update contents. To use **Always Ready** again, turn the power off and on again.
 - Some models may not be supported.

About User Guide

About **User Guide**

For information on each feature of the LG webOS TV, consult the **User Guide** available on the TV.

You can check the description of the associated **User Guide** by clicking  → **User Guide** in the upper-right corner while using the app, or by clicking  during setup in **Settings**.

If you click on **Try Now** in **User Guide**, you can navigate to that feature or setting.

Text color in this User Guide is used to indicate the following:

- ■ Red : the names of the remote control buttons.
- ■ Yellow : the buttons and the text to be displayed on the TV screen.
- ■ Green : the names of the TV input connectors.

- The images and information in the **User Guide** may differ depending on the model and operating environment.
- Product specifications may be changed without prior notice due to upgrade of product functions.

How to Operate TV

Pairing the Magic Remote

Learn More about Magic Remote

You can select the functions you want easily and conveniently by moving and clicking the cursor on the TV screen, just as you would use a mouse on a computer screen.

- You can purchase the Magic Remote separately if it is not provided.

Pairing the Magic Remote

You must pair the Magic Remote with the LG webOS TV to use it.

Pair the Magic Remote prior to use as follows:

- 01 Turn on the TV. After about 20 seconds, point the remote toward the TV and then press the **Wheel (OK)**.
 - 02 The remote control will be registered automatically, and the pairing completion message is displayed on the TV screen.
- If the Magic Remote failed to register, turn the TV off and back on, and then try to register again.

Re-registering the Magic Remote

If the Magic Remote's pointer does not appear on the TV, you must re-register it.



- 01 Hold the remote control towards the TV and press the  and  buttons at the same

time for more than 5 seconds until instructions appear.

02 The previously registered remote control is deregistered and then registered again.

Unregistering Magic Remote

If you have multiple LG Smart TVs and want to register the Magic Remote currently in use to another TV, you must unregister the previous one.


- 01 If you press the  button and the  button at the same time for more than 5 seconds, the lamp on Magic Remote will blink and the registration will be canceled.
- 02 If you want to unregister and register for another LG Smart TV, please follow the registration method above.
























Using the Magic Remote

Using the Remote Control Button

Briefly press or press and hold remote control button to access various functions.



For buttons with , please long-press (hold for more than a second).





- **9**  : Launch **Quick Help**.
- **GUIDE** : Launch **Guide**.
GUIDE  : Checking the saved channels.
- **0**  : The **QUICK ACCESS** edit screen appears.
- **...** : Display the additional buttons on the remote control.
...  : Configures SAP.
- **+ -** : Adjust the volume level.
-  : Select to turn off the sound from the TV.
  : Enter the **Accessibility** menu.
-  : You can change the channel.
-  : Check out the recommended contents. (Recommendation service may not be available depending on the countries you are in.)
You can use the voice recognition feature by holding down the button and speaking toward the top of the remote control.
-  : Displays the Home menu.
  : Launches the last used app.
-  : Selects an input source.
  : Entering into the **Home Dashboard**.
-  : Move to the previous step.
  : Closes the menu.
-  : Enters the Quick Settings menu.
  : Enters the All Settings menu.
-   : Launch **Record**. (Some models may not be supported.)

Using the Magic Remote

- 01 If you shake the Magic Remote left and right or turn its wheel while pointing it at the TV, a pointer will appear on the TV screen.
If you move the remote control in the direction you want, the pointer follows the movement.
- 02 Move the pointer to the location you want and press the **Wheel (OK)** button to execute the function.
- 03 If the pointer has not been used for a certain period of time, it will disappear. When the pointer disappears from the screen, shake the Magic Remote right and left. It will

then re-appear.

The pointer will disappear if you press /// buttons, and the remote will work as a standard remote control.



04 You can control the TV by scrolling or pressing **Wheel (OK)** button in the middle of /// buttons. When viewing a screen that requires scrolling, you can easily move up and down by scrolling the **Wheel (OK)** button. When watching a video, you can press the **Wheel (OK)** button to pause/play.

- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- Use the remote control within the working distance (within 10 meters or 33 feet). If there is an obstacle between the TV and the remote control, it may not operate properly.
- Depending on the peripherals (wireless router, microwave oven, etc.), communication failures may occur.
- Impacts can cause the Magic Remote to malfunction.
- Take care not to bump into nearby furniture, electronic equipment, or other people when using the Magic Remote.
- For details on configuring the pointer of the Magic Remote, see **User Guide** → **Settings** → **System** → **Pointer Options**.

Using TV features with Hands-free Voice Control

Using TV features with Hands-free Voice Control

This function is only available when the TV is connected to the Internet.

If Hands-free Voice Control does not work, set **Use Hands-free Voice Control** to **On** in  →  → **General** → **AI Service** → **Voice Recognition Settings**.

When the TV is on

01 Say “Hi LG” within the watching distance from your TV.

02 The speech recognition screen appears.



03 Say the feature you want.

Example) Find something to watch/Channel number OO/Turn up the volume/Turn on OOO/How is the weather today?/Voice Recognition Help, etc.

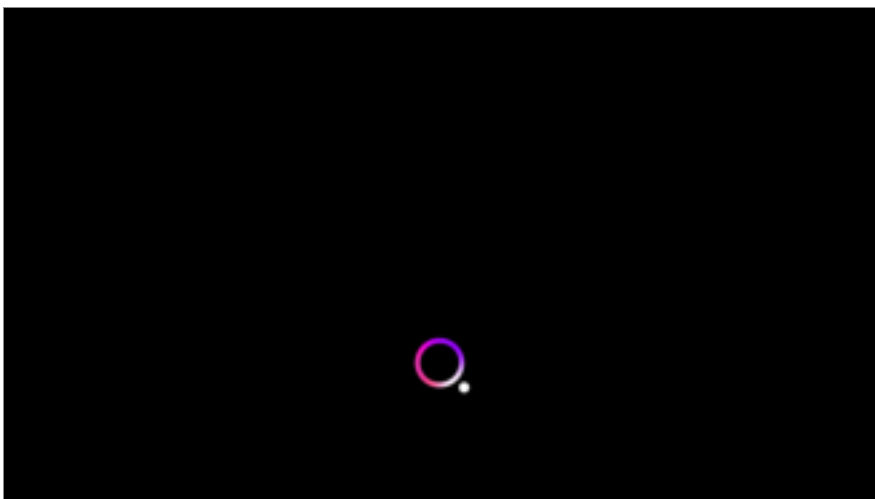
When the TV is off

Even when the TV is off, you can use TV features through Hands-free Voice Control.

Set  →  → **General** → **Always Ready** to **On**.

The Standby Light on the front of the TV will change to white.

01 When you say “Hi LG” to the TV, the Standby Light on the front of the TV will blink and the TV will produce an alert sound.



02 Say the feature you want.





Example) Turn on the TV/How is the weather today?, etc.

■ In some exceptions, the Hands-free Voice Control may not work, even if **Always Ready** is on.

- If a software update is in progress

- When set to the store mode
- If the TV has not been turned on for more than 96 hours
- When pixel cleaning is running



Precautions When Using Hands-free Voice Control

- Some models do not support this function.
- The operation may be limited depending on the country and language settings.
- When updating the TV, the existing functions or operations you have used may change.
- The Hands-free Voice Control function enables the TV body to recognize the user's voice. For smooth operation, use this function within 3 m (9.84 feet) of the TV.
- Depending on the situation, symbols, numbers and special characters may not be recognized.
- It may be affected by the environment, such as voice tone or volume, unclear pronunciation, and ambient noise.
- When you use an external speaker connected to the TV, the sound output from such an external speaker can be recognized as noise. It is recommended to use the voice recognition function with Magic Remote.
- Hands-free Voice Control wake-up words can be changed in  →  → **General** → **AI Service** → **Voice Recognition Settings** → **Set Wake-up word for Hands-free Voice Control**. (The operation may be limited depending on the country and language settings.)
- If the Hands-free Voice Control function works when not intended, try lowering the sensitivity by going to  →  → **General** → **AI Service** → **Voice Recognition Settings** → **Set Sensitivity**.
- For speech recognition features using a remote control, see **How to Operate TV** → **Using TV Functions through Speech** in **User Guide**.





Using TV Functions through Speech

Using TV Functions through Speech



You can easily and quickly access the TV's various functions through speech recognition.

- 01 Press and hold the  button on the remote control and speak out the function you want to launch or the keyword you want to use for your search.
- 02 Once you release the  button after your speech input, the corresponding function is launched.



- Some models may not be supported.
- **Menu Language** must be set as the official language of the country in **Location** to see correct search results. If **Menu Language** is not set as the official language, some functions may be limited.
- You can change the language in  →  → **General** → **System** → **Language** → **Menu Language**.
- The languages available for voice recognition features may be changed in accordance with Service Operation Policy.
- Details of service may vary by model.
- Please note that the services enabling voice commands, voice recognition and other smart features may be changed, removed or terminated, without notice, by LGE or its third party providers.
- You can change the voice-related settings or see which features are available to be used with the voice in  →  → **General** → **AI Service** → **Voice Recognition Settings/Voice Recognition Help**.


Cautions for Speech Recognition

- Voice recognition requires a Magic Remote, which may not be supported by certain models.
- To use all speech recognition features, you need to set your channels, region, etc. Otherwise, you cannot use some features.
- You must have a network connection to use the speech recognition feature.
- If you have a network connection, you need to accept the terms and conditions to use speech recognition.
- To control the set top box connected to the TV with the voice recognition feature, go to  →  → **General** → **Devices** → **External Devices** → **Universal Control Settings** to set up a universal remote control.
- It is recommended to point the Magic Remote toward the set top box after the voice input.

- The rate of speech recognition may vary depending on the characteristics of the user (voice volume, pronunciation, accent, and talking speed) and the surroundings (noise and TV volume).
- To achieve accurate recognition of your speech, you must pronounce words in a slow and accurate manner at an appropriate voice volume at a distance of about 10 cm (4 inches) away from the Magic Remote's microphone.
- If your speech is not recognized properly, speech recognition may operate differently than you originally intended.

Speech to Text

Using Speech to Text

You can enter text in text fields using the speech recognition function.
Select the  button on the keyboard screen to switch to speech input mode.

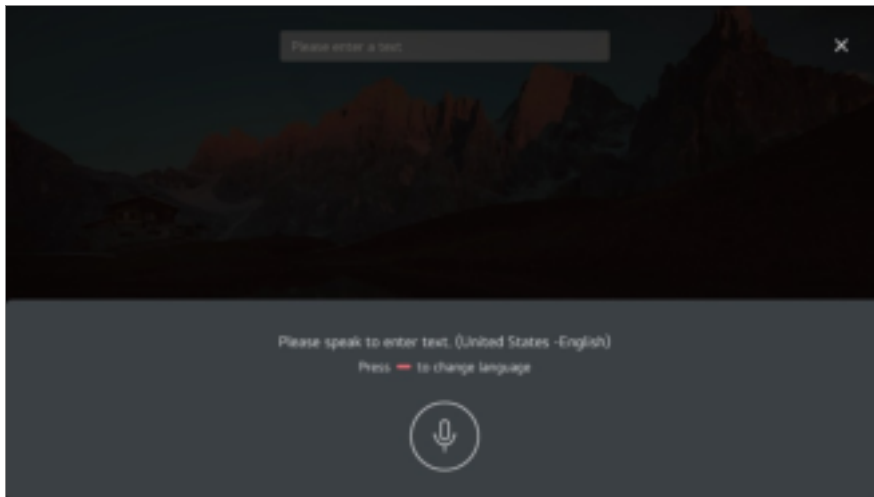
- Some models may not be supported.

01 Move the Magic Remote pointer in the text box to open the virtual keyboard.

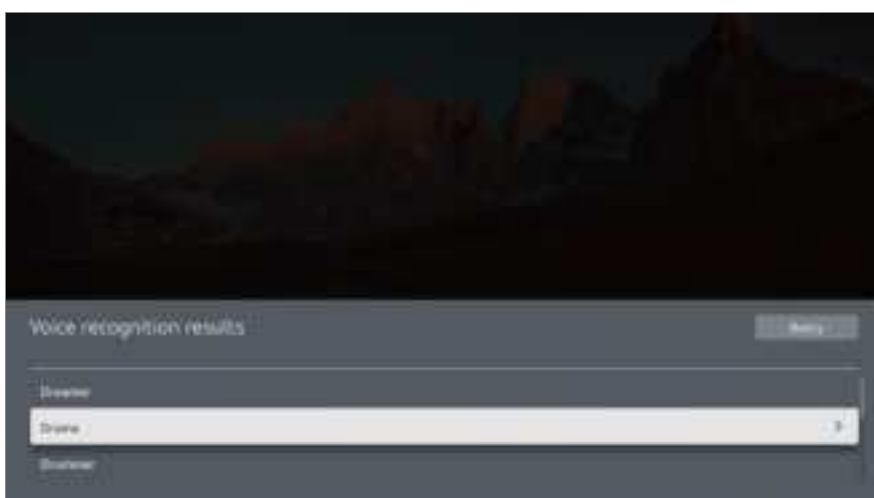


02 Press the  button on the virtual keyboard.

03 After the voice recognition information window opens as shown below, speak into the microphone on the remote control slowly and clearly.




- 04 If there are words similar to that which you spoke out loud, you may see a list of multiple results as shown below. If you do not get the results you want, press **RETRY** to try again. Select a result and it will be displayed on the text box.



Cautions When Using Speech to Text


- Check the network connection before using the Speech to Text function.
- You can change the language in → → **General** → **System** → **Language** → **Menu**


Language. To temporarily switch to another speech recognition language, press the  button in the voice recognition information display window.

- You can use this function only when you agree to the Voice Recognition terms.
- The Speech to Text rate may vary depending on the user's characteristics (voice, pronunciation, intonation and speed) and the environment (noise and TV volume).
- To improve the accuracy of Speech to Text, you must speak clearly and loudly about 10 cm (4 inches) from the Magic Remote microphone.
- Voice recognition is unavailable in any password input field and the address bar of your **Web Browser** (excludes general search).

Control your TV with your voice with Google Assistant



Control your TV with your voice with Google Assistant


Press and hold the  (Google Assistant) button on the remote control to talk to Google. Use your voice to easily find and play movies, shows, music and videos.

- Press the  (Google Assistant) button on the remote control to access the settings.
- Google is a trademark of Google LLC.
- Google Assistant is not available in certain languages and countries.
- Service operation and supported countries may change in accordance with Google's policies.

Access Voice Recognition Using Amazon Alexa

Access Voice Recognition Using Amazon Alexa


- 01 Press and hold the  (Amazon Alexa) button on the remote control and speak out the function you want to launch or the keyword you want to use for your search.
- 02 Once you release the  (Amazon Alexa) button after your speech input, the corresponding function is launched.

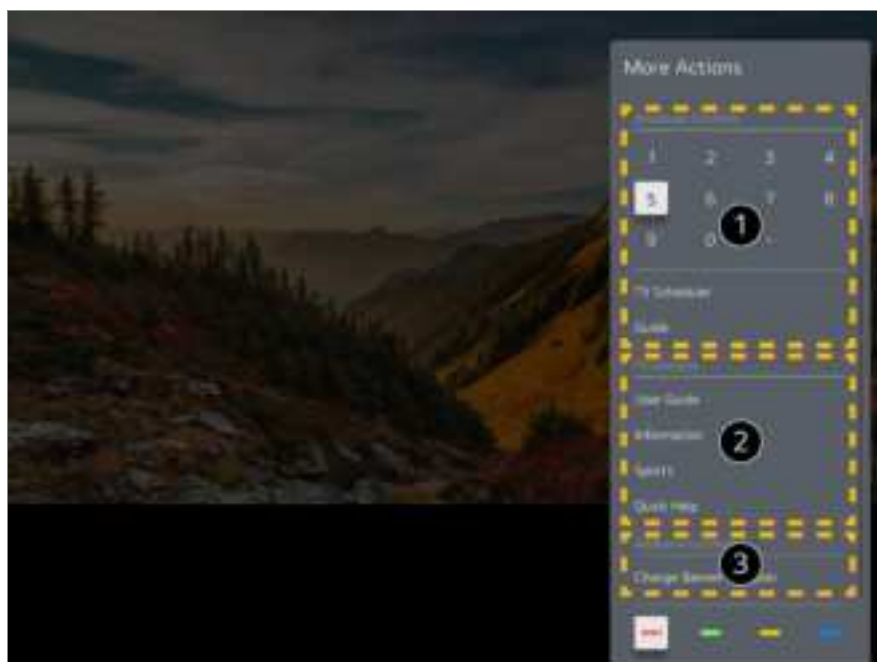
- Press the  (Amazon Alexa) button on the remote control to access the settings and help information for Amazon Alexa.
- Different services may run in countries where Amazon Alexa is not supported.
- Service operation and supported countries may change in accordance with Amazon's policies.

To View More Features of the Remote Control

To View More Features of the Remote Control

You can control more features or external devices connected to your TV by using the buttons displayed on your TV screen.

- 01 Press the  button on the remote control.
- 02 Using the remote control, select your desired button on **More Actions** displayed on your TV screen.



- ① These features can be used when you watch a live broadcast.
- ② These TV features are available now.
- ③ Additional features can be set when you watch a live broadcast.

- Available features may vary depending on the broadcast signal.

- The types of buttons appearing on the **More Actions** vary, depending on the region and the type of connected device.

Using Universal Remote Control

Automatically Setting the Universal Remote Control



When you set up the universal remote control, you can control the peripherals (Blu-ray/DVD player, home theater, set-top box, etc.) with the Magic Remote rather than using their dedicated remote controls.

Connect the devices to be set to the TV's **HDMI IN**, and turn the power of the device on. The TV will recognize the connected device to automatically set the universal remote control without manual setting.

- After setting the universal remote control, you may need to do some additional user settings.
- It may take several seconds to complete the settings for the universal remote control.
- In some models, you can set the universal remote control only after converting to an input of a connected device.
- Depending on the connected device, the automatic setting feature for universal remote control (automatic device connection) may not be supported.

Manually Setting the Universal Remote Control

If the universal remote control has not been set automatically, you can set it up manually.

- 01 Select the  →  → **General** → **Devices** → **External Devices** → **Universal Control Settings**.
 - 02 Select the type of the device you want to set.
 - 03 Complete the settings for the universal remote control according to the guidance on the screen.
You can change or cancel the universal remote control settings.
- This feature can only be used with the Magic Remote.
 - You can purchase the Magic Remote separately if it is not provided.
 - Some models may not be supported.

- When changing settings on a device, make sure it is powered on first.
- To set up a universal remote control with the latest information, connect to the network and accept the User Agreements.
- The manual setting feature for universal remote control is not supported for a game console.
- Some buttons may not work depending upon the model of the external device.
- Point the Magic Remote at the device you want to control. Make sure that there are no objects in front of the device to ensure that the remote control signal is well received.

Launching Apps through QUICK ACCESS

Using Apps Quickly and Easily with QUICK ACCESS

Press and hold a number button on the remote control to open an app or to activate an external input registered to the button.

Setting the QUICK ACCESS

01 Launch the app or select the channel or input you wish to assign.

02 Press and hold the number button (1~8) you want to register.
No. 9 is fixed to Quick Help.

03 When the registration pop-up window appears, select Yes.

- If you press and hold a number button that has already been registered, the registered function will be performed.
- To see the items that can be registered, select a number that has not been registered in the QUICK ACCESS edit mode.
- If you are in a mode where QUICK ACCESS cannot run, no action will be performed.
- If you delete a registered app, QUICK ACCESS will be deregistered as well.

Checking and Editing QUICK ACCESS

Press and hold the number 0 button on the remote control.
The QUICK ACCESS edit screen appears.






- ❶ Selecting a number that has already been registered allows deregistering it.
- ❷ When you select a number that has not been registered, items that can be registered will be shown.
 - An item that has been registered to a different number is indicated with a check mark.
- ❸ You can view a brief instruction for this function.

Connecting to SIMPLINK (HDMI-CEC)

Using SIMPLINK

With a single remote control, you can easily manage various devices such as a soundbar or set-top box connected to a TV with HDMI.

- Up to three devices can be connected and used simultaneously.

- 01 Connect the SIMPLINK HDMI Output port to the TV **HDMI IN** port with an HDMI cable.
- 02 Press the  button on the remote control.
- 03 Select  → **General** → **Devices** → **HDMI Settings**.
- 04 Set **SIMPLINK (HDMI-CEC)** to **On**.
- 05 Turn on the connected device. When the TV automatically connects to the device, the input will switch.
If the device is not automatically connected to the TV, click the  button.

- This feature works only with devices with the  logo. Check for the SIMPLINK logo

on the external device.

Use of any product other than those specified may cause problems during operation.

- To use SIMPLINK, you need to use a high-speed HDMI[®] cable with CEC (Consumer Electronics Control) function. The High-Speed HDMI[®] cable has the pin 13 for enabling information exchange between devices.
- To output sound from an external audio device, connect the audio device to the TV's **HDMI (ARC)** port with an HDMI cable. Set **Sound Out** to **HDMI(ARC) Device** and set **SIMPLINK (HDMI-CEC)** to **On**.

Supported SIMPLINK Functions

Instant Play

When you start a multimedia device, you can immediately watch content from the device on the TV without having to control anything.

Controlling devices with the TV remote control

Enables the user to control multimedia devices with the TV remote control to watch content.

- The menu of the multimedia device can be operated with the arrow keys on the remote control.

Main Power Off

Turning off the TV will also turn off the devices connected through SIMPLINK.

- This feature is only available in certain devices.

Main Power On

Turning on a SIMPLINK device will also turn on the TV.

- Some models may not be supported.

Shortcuts to Accessibility

Shortcuts to **Accessibility**

You may go directly to **Accessibility** without entering the Advanced Settings menu.

Press and hold the  button on your remote control.

In **Accessibility**, you can set up **High Contrast**, **Grayscale**, **Invert Colors**, etc.

Connecting an Input Device to USB

Using a USB Wired/Wireless Mouse

Connect your mouse to the USB port. Use the mouse to move the pointer on the TV screen and select the menu you want.

- The right button and the special buttons on the mouse do not work.
- When using a wireless USB mouse, the connection can be lost or slowed, depending on the distance between the TV and mouse and the wireless environment.

Using a USB Wired/Wireless Keyboard

Connect your keyboard to the USB port. You can enter text with the connected keyboard device.

- It is not possible to enter text on some screens.
- It is recommended that you use a product that has been tested for compatibility with LG TVs.
Logitech K360, Logitech K400, Logitech K750
- You can change the input language by pressing the language switch key or the right Alt key, And also can change by pressing the Ctrl key and the Space key at same time.
- When using a wireless USB keyboard, the connection can be lost or slowed, depending on the distance between the TV and keyboard and the wireless environment.
- To enter text in the text field, use the on-screen keyboard on your TV screen or a USB keyboard.

Using a Gamepad

Connect your gamepad to the USB port on the TV if the game requires a gamepad.

- It is recommended that you use a product that has been tested for compatibility with LG TVs.
Sony DualShock 4, Sony DualShock 3, Microsoft Xbox 360 Controller, NVIDIA SHIELD

Connecting Bluetooth Input Devices

You can connect and use devices such as a Bluetooth-enabled keyboard, mouse, or a gamepad with your TV.

To see the details, click the **Settings** → **Devices** → **External Devices** → **Connect Bluetooth Controller** in **User Guide**.

Enjoy Live TV

Making the Most of Live Menu

Using Live Menu

You can use the relevant features with ease when watching TV broadcasts.

Press and hold the **GUIDE** button on the Magic Remote.

Or press the **LIST** button on the standard remote control.



1 Guide : You can view programs and the schedule of each program.

To see the details, click the **Enjoy Live TV** → **Viewing Guide** in **User Guide**.

2 Channels : View a list of broadcast content that is currently being broadcast.

3 TV Scheduler : You can set the date and time of the desired broadcasting program, and watch the program.

To see the details, click the **Enjoy Live TV** ➔ **Using TV Scheduler** in **User Guide**.

- The channels displayed in Channel List are a configuration of channels provided by the broadcast service provider. Therefore, if the broadcast service provider has changed its channel configuration without notice, the channels displayed in Channel List may differ from the actual TV channels.
- Because channel information displayed in Channel List includes information provided by external Electronic Program Guide (EPG) providers, it may differ from the actual TV channels.
- You must complete the settings of the network, region, and auto-channel to receive normal live broadcast service.
- The configurable items differ depending upon model.

Viewing Guide

Viewing Guide


You can view programs and the schedule of each program.

01 Run **Live TV** by pressing .

02 Press the  button on the remote control and select **Guide**.



- 1 Select each area to access the corresponding feature.
- 2 You can view information on the channel and broadcaster.
- 3 You can view information about the program you are currently watching as well as the focused program information.

- 4 Select the  button or the title of the desired program. You can view more information on the program and perform **Watch/Record** (only available on certain models) or **Reminder/Scheduled Recording** (only available on certain models), etc.
 - 5 You will be taken to the program list for the current date and time.
 - 6 **Channel Manager** : Launch **Channel Manager**.
Channel Row : You can change the size of the program list to adjust the number of channels displayed on the screen.
Filters : Sets the filter.
Mini TV : You can turn on/off Mini TV.
User Guide : Move to the **User Guide** app.
 - 7 Closes the app.
- Program information is not displayed for channels with no provided broadcast information.

Viewing Set-Top Box Guide

After connecting the Set-Top Box, you can view programs and the schedule of the Set-Top Box and use the Magic Remote.

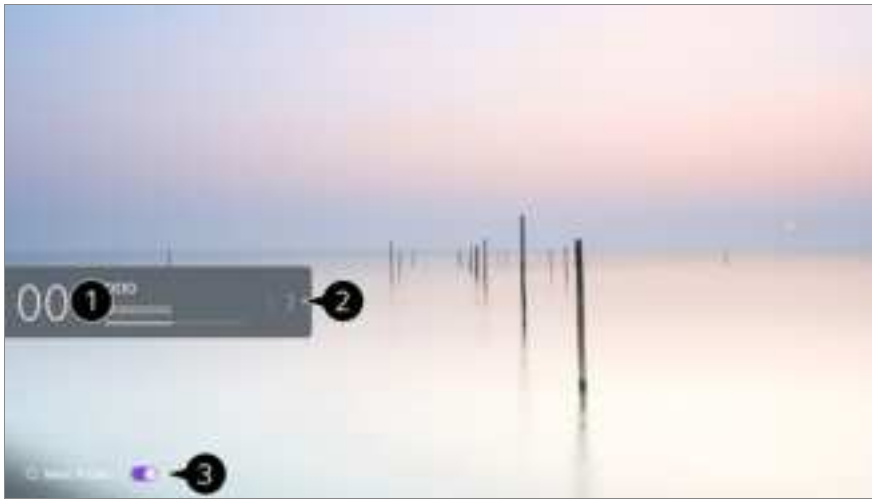
- Some models may not be supported.

Checking Program Info

Viewing Program Information

While watching a live broadcast press the **Wheel (OK)** button. The Channel Banner appears.

You can move the banner's position by pressing the **...** button on the remote control and selecting **Change Banner Location**.



- ❶ It displays the information about the program you are watching. Select a channel banner to enter the detailed information pop-up to see the detailed program information or run additional features related to the banner.

You can view broadcast information about other channels using the ▲/▼ buttons.

You can view broadcast information about the channel you are currently watching using the ◀▶ buttons.

- The features can be controlled only within the detailed information pop-up.

- ❷ Launch **More Actions**.

For more information, see **How to Operate TV → To View More Features of the Remote Control** in **User Guide**.

- ❸ You can get recommendations for what to watch next by setting **Next Picks** to **On**.

- This feature may not be available in some countries.

- Available features may vary depending on the broadcast signal.

Who.Where.What?

Using Who.Where.What?

Provides a variety of information related to the scene or content you are currently watching.

- Information may vary depending on the program.
- Some models may not be supported.
- You must connect to the network and agree to **User Agreements** before you use it.



Entering **Who.Where.What?**

Method 1. Press the **Wheel (OK)** button on your remote control.

Press **Who.Where.What?** on the channel banner.



Method 2. If the information is recognized while you are watching a program, a notification will appear automatically. Please click on the displayed notification.

- To receive automatic recommendations, you must set  →  → **General** → **AI Service** → **AI Recommendation** → **Alarm** → **Who.Where.What?** to On.



Method 3. It can also be used with the speech recognition feature.

Example) Who is this person?/Where is this place?/What is this bag?

- Some models may not be supported.

Viewing Information about the Scene with **Who.Where.What?**

A variety of information related to the scene you are watching appears on the screen.

Select the information you want to view the details.

Store the information in **Wish List** and come back anytime you want.



1 You can use additional features such as changing the sorting options, deleting, or sharing.

- Available in Live TV or HDMI. However, some OTT devices with universal remote control settings are not supported.
- It is not available if you are watching an **LG Channels** (IP channel) or when no image is shown on the screen.

Viewing Information about the Content with **Who.Where.What?**


Press the  button on the remote control and select **Who.Where.What?**.

In addition to the information about the scene you are currently watching, you can also view a variety of information about the content anytime.



1 You can use additional features such as changing the sorting options, deleting, or sharing.

Sharing Information with **Who.Where.What?**



Pressing the  button allows you to share the address of the website containing the information through a text message, QR code, or the LG ThinQ app or send it to a smart device.

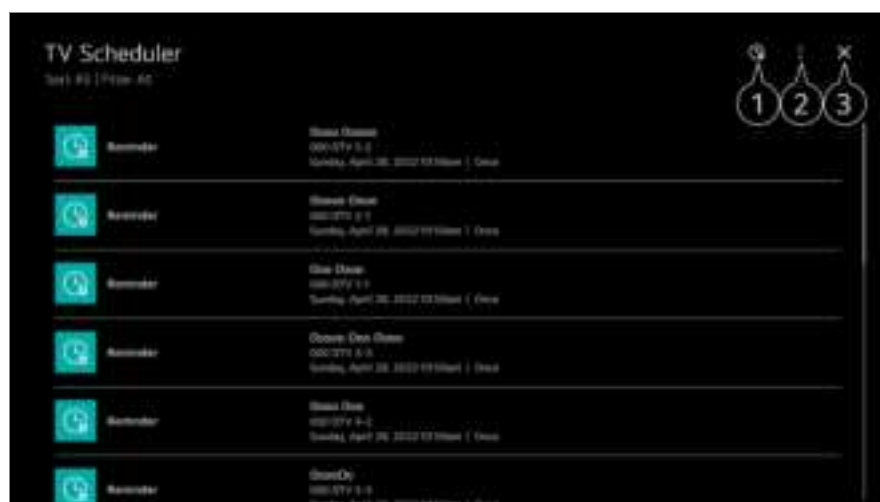
- To use the sharing feature, the smart device must have the latest version of the LG ThinQ app installed on it and must be connected to the TV.

Using TV Scheduler

Using TV Scheduler

This function is used to set the time and date for watching a specific program.


- 01 Press  on the remote control to select **Live TV** and view the live broadcast.
- 02 Press the  button on the remote control and select **TV Scheduler**.
The **TV Scheduler** screen will be displayed.



- 1 You can set the New Reminder.
- 2 **Sort** : You can sort the list.
Delete : You can set the Delete Mode.
Guide : Launch **Guide**.
User Guide : Launch **User Guide**.
Quit App : Turns off the app from running in the background.
- 3 Closes the app.

Scheduling a selected broadcast from **Guide**

You can select a show to schedule it for watching.

- 01 Run **Live TV** by pressing .
- 02 Press the  button on the remote control and select **Guide**.

03 Select the program you want.

If you want to watch a live broadcast, click the **Watch** button.

In case of an upcoming program, click the **Reminder** button.

■ Applies to digital broadcasting.

Manual Scheduling

You can select the date, time, and channel to watch the channels.

01 Run **Live TV** by pressing .

02 Press the  button on the remote control and select **TV Scheduler**.

03 Select the .

04 Select **CREATE MANUALLY**.

05 Set the date, time, and channel to watch.

■ Some models may not be supported.

Watching Internet Channel (LG Channels)

Watching Internet Channel

You can watch real-time broadcasts through this service over the Internet.

You can see information on new Internet Channels or manage the channels you like in **LG Channels**.

Press the  button on the remote control and select **LG Channels**.

You can also watch **LG Channels** by pressing the  **(Channels)**  buttons on the remote control.

You can use the 'Interactive Channel' service that enables users to conveniently enjoy content related to the current channel without having to switch apps.


You can use the 'Interactive Channel' by pushing the buttons on your remote control or clicking your screen according to the instructions that appear on the Internet channel screen.

■ Some models may not be supported.

■ You must connect to the network and agree to **User Agreements** before you use it.

■ You cannot use the services if you change **LG Services Country** in   **General** 

System → Location.



- While watching an Internet Channel, click the  button on the Remote control. You can start the **LG Channels**.
- Some content can cause a switch from **Live TV** app to a different app.
- Some Internet channels may not support this service.
- Live Playback and recording are not available for internet channels.
- Internet Channel services may be stopped or changed without prior notice by the broadcasting company.

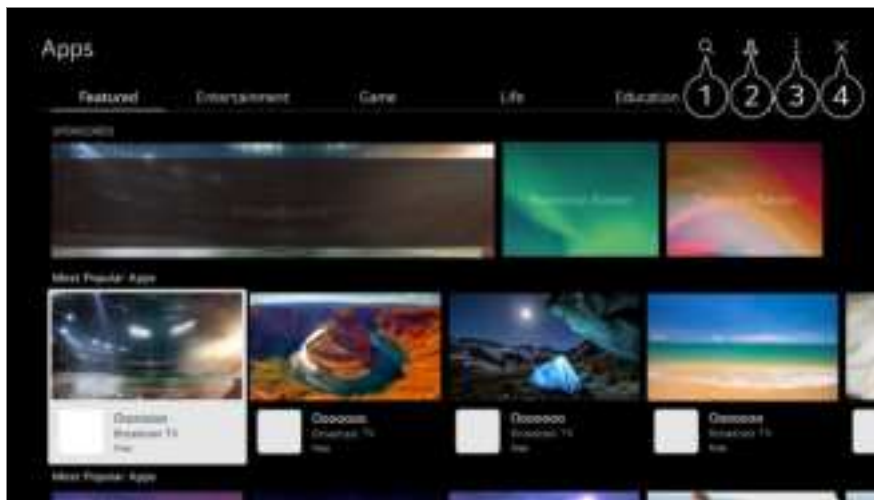
Apps and Content

Installing Apps

Installing Apps

You can install apps in a variety of categories such as games, education, and news and conveniently use them on your TV.

- 01 Press the  button on the remote control.
- 02 Launch **Apps**.
- 03 Select a category or press the  button to search for an app.
- 04 Select an app to install.
- 05 Read the details of the app and then press **Install**.
- 06 When the installation is complete, you can run the app immediately.



❶ Searches for content.

To see the details, click the **Apps and Content** → **Content Search** in **User Guide**.

❷ You can log in to your LG account.

❸ You can manage apps, such as updating or deleting installed apps.

❹ Closes the app.

To turn off the app from running in the background, press the **Quit App** button on the remote control and select **Quit App**.

- In order to install apps, you must be logged in.
- Available categories may vary depending on the country or service status.
- If the storage on your TV is insufficient, you can install the apps by connecting an external memory device.
- Some USB storage devices may not be supported or may not work properly.
- USB stick containing apps from other TVs may not be used.
- Exercise caution when in used by children. Children may have access to inappropriate online content through this product. You can block inappropriate online content by restricting access to some apps.

Configure the settings in **Settings** → **General** → **System** → **Safety** → **Application Locks**.


Content Recommendation

Content Recommendation

You can get content recommendations based on the program you are watching or TV viewing patterns.

If you are watching the TV using a set-top box, you must complete the setup of the

universal remote control to use the recommendation feature normally. For more information, see **How to Operate TV → Using Universal Remote Control** in **User Guide**.

01 Press the  button on the Magic Remote. The Content Recommendation screen appears.

■ When using a standard remote control, press the  button on it.

02 You can view more content by pressing the  icon on the screen.



- Some models may not be supported.
- You must connect to the network to use the recommendation feature.
- The supported services vary depending on countries, so the recommendations may be provided differently.
- The list of the recommendations may be less relevant or irrelevant, depending on the information of the program you are watching.

Content Search

Content Search

Searches for content by title, actor/actress, and genre.

01 Press the  button on the remote control.

02 Launch .

03 Search for a variety of content and information using the desired search terms.



- ❶ Enter a search term.
 - ❷ Shows recent searches.
 - ❸ You can select one from the suggested keywords and proceed to search.
 - ❹ You can browse content by genre.
- You must connect to the network to use the search feature.
 - Search results may vary depending on the channel, region, network settings, and whether you have agreed to the terms and conditions.

Connecting External Devices

Using Home Dashboard

Using Home Dashboard

You can select or control a device (mobile, external device, Home IoT Devices, etc.) connected to the TV.

Run **Home Dashboard** by pressing the  button on the remote control.

You can also press and hold the  button on Magic Remote.



- 1 You can check and select the external device connected through the external input port or network.
- 2 Connect your mobile device to TV to share the mobile screen and enjoy the stored contents.
- 3 Use AirPlay/HomeKit to control your TV and watch content from your iPad or Mac on the TV screen.
 - The availability of and access to Contents and Services in LGE Device are subject to change at any time without prior notice.
- 4 It can only be selected if you have connected a USB storage device or a media server.
- 5 The connected camera is launched.
- 6 The currently selected output speaker is displayed, and you can navigate to the output speaker settings screen.
- 7 You can view the list of connected Bluetooth devices and select one.
- 8 You can check and control the device connected via the Home IoT.
Please refer to **Connecting External Devices** → **Connecting Home IoT Devices** in **User Guide** for more information on the action.
- 9 You can log in or out with your LG ThinQ account.
- 10 **Edit Inputs** : You can edit the name of the connected device or apply the related settings.
Edit home IoT devices : You can hide or show connected Home IoT Devices and rearrange the list.
Notification : You can turn on or off the notifications on the connected device.
Automatic device discovery : Shows devices that are available for connection on the screen.
Universal Control Settings : Move to the **Universal Control Settings** app.
User Guide : Move to the **User Guide** app.
Quit App : Turns off the app from running in the background.

11 Closes the app.

■ Available settings vary depending on the model or region.

Connecting Home IoT Devices

Connecting Home IoT Devices

You can check and control the status of the connected Home IoT Devices.

01 Install LG ThinQ app on your smartphone.

02 Log in to your LG ThinQ account, and register your own LG ThinQ device.

03 Run **Home Dashboard** by pressing the  button on the remote control.

04 Select the  at the top right.

05 Log in to your LG ThinQ account. A list of the registered LG ThinQ devices will appear.

- If you are in an area where the LG ThinQ app is not in service, LG ThinQ device connection will not be supported.
- To register your IoT device, select **Connect Home IoT Devices** and follow the instructions to apply settings.
- If you are controlling the external device from your mobile app, you might not be able to control the device from your TV. Quit the mobile app to control it from your TV.



1 You can check the connection guide for each type of **Home IoT Devices**. You can

connect and see devices registered with your LG ThinQ account or IoT devices. Once the device is connected, the card will be changed to a smaller size and appear at the bottom of the device connection list.

2 Select  → **Edit home IoT devices**.

Edit List : You can hide or show the connected Home IoT Devices and rearrange the list.

Delete devices : You can delete the connected device. You can only delete certain devices from the TV.

- Available settings vary depending on the model or region.
- IoT devices that can be connected to a TV are subject to change without notice.
- Connectable LG ThinQ devices and available functions may differ between mobile and TV.

Connecting Smart Devices



Connecting Smart Devices

You can use a variety of features by connecting the TV to a smart device.

Connecting Your Smart Device to a TV Using the LG ThinQ App

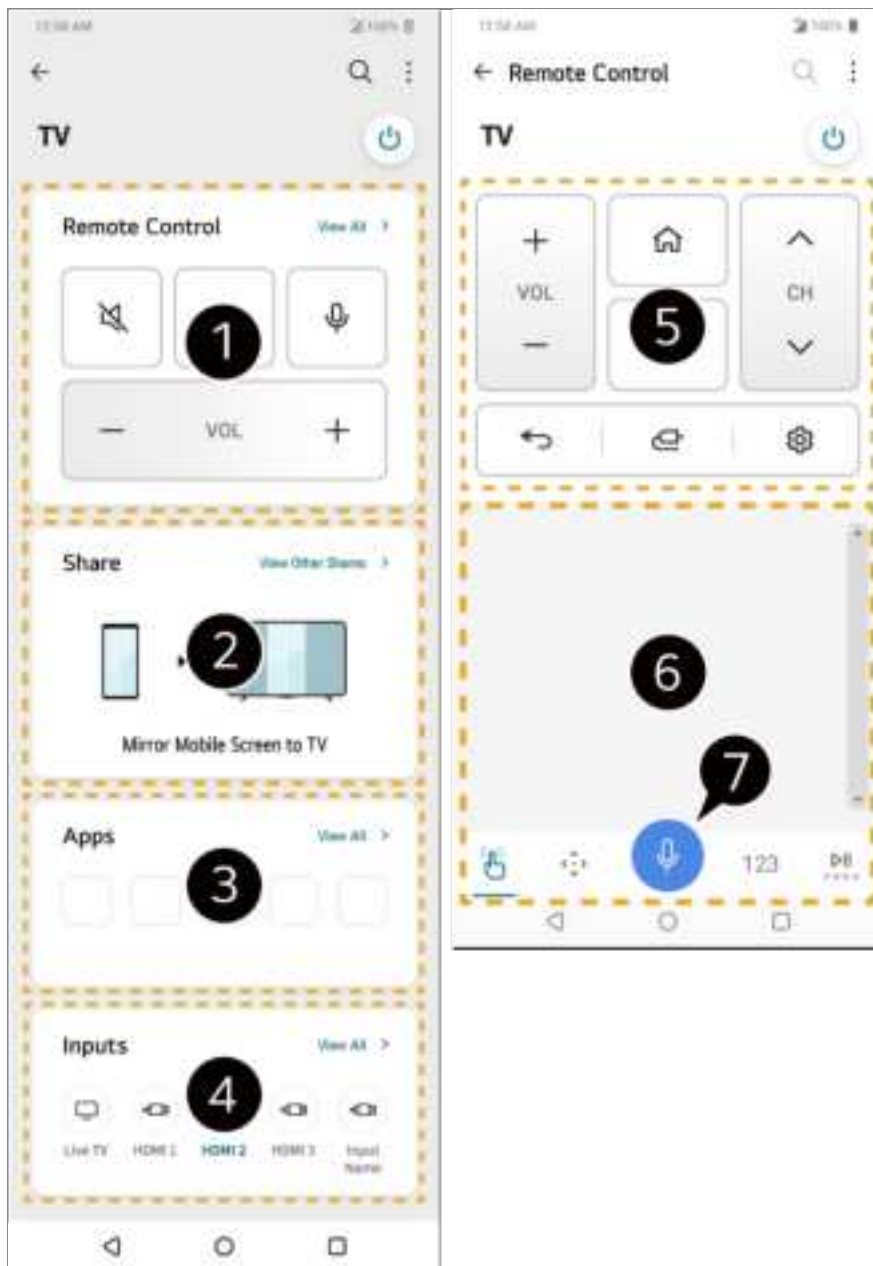
- 01 Download the LG ThinQ app from the app store of your smart device.
You can download the app easily by scanning the QR code.



- 02 Connect your TV and smart device to the same Wi-Fi network.
You can check the Wi-Fi network of TV at  →  → **General** → **Network** → **Wi-Fi Connection**.
- 03 Run the LG ThinQ app installed on your smart device.
- 04 Follow the instructions from LG ThinQ app to connect your smart device to the TV.
When your account information of LG ThinQ is linked to the TV, you can manage the IoT devices linked to your account using **Home Dashboard** of the TV.
- Voice commands can also be made through Smart Speaker linked to the account in the settings of the LG ThinQ app.
 - The service may not offer depending on country.

Controlling Your TV with the LG ThinQ App

You can tap the buttons on your smart device's screen to control the TV.





- 1 Simple remote control operation is possible. Select **View All** and try using the remote control in full screen.
- 2 You can share and enjoy the sound, screen, or content on the TV and smart device interactively.
- 3 Displays a list of apps installed on the TV.
- 4 Displays a list of devices connected to the TV's external input.
- 5 When watching a broadcast, you can control the channel, volume, etc. or select the external input with voice commands instead of using the remote control.
- 6 You can use the same functions as the Magic Remote's pointer and arrow keys.

 A speech recognition function is available.

- Some models do not support this function.
- Some controls may be limited in external input mode.
- The app's screen and functionality are subject to change without prior notice.
- Available features may differ depending on your country and OS.

Watching Smart Device Screen on TV

Watching Smart Device Screen on TV

- 01 Enable Screen Share mode on the smart device.
 - 02 Your TV will be displayed in the list of available devices.
 - 03 Select your TV and request connection.
 - 04 Select **Accept** in the connection request popup window.
 - 05 After the connection is established, the TV will display the screen of the connected device.
- When you connect **Screen Share** for the first time, a popup will appear which allows you to select **Accept**, **Decline** or **Block**.
 - **Accept** : You can connect the device. No connection popup will appear from the second time.
 - **Decline** : Do not connect the device. If you try to connect again, the popup will appear.
 - **Block** : Do not connect the device. Even if you try to connect again, the popup will not appear and the connection will not work.
To turn off **Block**, go to  →  → **General** → **Devices** → **External Devices** and select **Delete Connection History**.
 - For a reliable connection always keep the connected device to your TV updated to the latest OS version.
 - Depending on the model or manufacturer of the smart device, the Screen Share feature may not be supported.
 - Connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
 - The response rate may vary depending upon the user's environment.
 - It differs among devices. When trying to connect to a device, refer to the device's User's

Guide for more information.

- If the connection fails repeatedly, turn off the TV and the device you are trying to connect. Then turn them back on and try again.

Playing Sound from a Smart Device through the TV's Speakers

Playing Sound from a Smart Device through the TV's Speakers

Connect a smart device to the TV via Bluetooth to play sound from the smart device through the TV's speakers.

01 Turn the smart device's Bluetooth on, then select the TV from the list of devices.

02 The TV will be connected to the smart device.

- The TV may not be found in the list of smart devices while searching for a broadcast channel or setting up a Bluetooth speaker.
- If you connect a smart device to the TV via Bluetooth and listen to the sound of the smart device through the TV speaker, the TV may not be connected to any other smart device.



Connecting USB

Connecting USB

Connect a USB storage device (USB HDD, USB stick) to the USB port on the TV to enjoy the content files stored on the USB storage device on your TV.

Tips for Using a USB Storage Device

- A USB storage device that has a built-in automatic recognition program or uses its own driver might not be recognizable.
- Some USB storage devices may not be supported or may not work properly.

- If you use a USB extension cable, the USB storage device may not be recognized or may not work properly.
- Please use only USB storage devices formatted with the FAT32, exFAT or NTFS file system provided by Windows OS.
- It is recommended that you use an external USB HDD with a rated voltage of 5V or less and a rated current of 500 mA or less. If you use a device requiring a higher voltage/current than the rated voltage/current, it may not operate properly due to lack of current.
- It is recommended that you use a USB hub or USB storage device with a power supply.
- We recommend using a storage device with a capacity of 32 GB for the USB memory and 2 TB or less for the USB hard disk.
- If a USB HDD with power-saving function does not work turn the hard drive off and on again to make it work properly. For more information about the USB HDD, see the Owner's manual.
- Data on a USB storage device may be damaged. It is recommended that you back up any important files. Users are responsible for data management. The manufacturer bears no responsibility.
- Press the  button on the remote control. To remove the USB storage device, press the **Eject** button, which appears at the top when you focus on the USB storage device you want to remove. If you disconnect the USB storage device without selecting **Eject**, an error may occur in your TV or storage device.
- When you connect a USB storage device of a file system not supported by the TV to the **USB IN** port, the format message appears. To use the connected USB storage device, you should format the device first.
Formatting deletes all data stored on the USB storage device, and the device is formatted with the FAT32, exFAT or NTFS file system.
- Run **Home Dashboard** by pressing the  button on the remote control. Select the connected USB from **Home Dashboard** and select the **Format** button to format the USB storage device.
- When connecting a USB storage device, a random file/folder can be created to provide Smart TV services such as the saving and retrieving of thumbnail images.

Using the Media Player

Using the **Media Player**

You can search and view photos or play videos and songs with the **Media Player** app.

- 01 Press the  button on the remote control.
- 02 Run the **Media Player** app.

03 Select a device to use from the device list.

04 Select the content to play.



❶ You can select a device connected to your TV.

❷ Displayed only when music is playing. Press the **II** to access the Play Music screen.

❸ Launch **Search**.

❹ **View Type** : Selects a content display mode.

Sort : Select the option to sort content.

Group : If you filter by **Music**, you can group content into categories such as **Artist** and **Album**.

Selection Play : You can select and play multiple pieces of content.

Delete : You can select and delete multiple pieces of content.

User Guide : Move to the **User Guide** app.

Quit App : Turns off the app from running in the background.


❺ Closes the app.

- You cannot delete files that are shared from other devices.
- Different settings items are available depending on the filtering or model you selected.
- Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Viewing Photos

Viewing Photos

You can select a photo from the **Media Player** app and view the photo.

You can use more features by pressing the  button on the remote control while viewing a photo.



- ❶ Shows the previous content.
- ❷ Starts the slide show.
- ❸ Shows the next content.
- ❹ Rotates photos.
- ❺ Enlarges or reduces the photo.
- ❻ 360-degree photos can be viewed in 360 degrees.
 - Using the 360° VR Play on a normal photo may distort the image.
 - Some models may not be supported.
- ❼ Plays a music file selected from the storage device as background music.
- ❽ Sets the photo size or changes the speed or effects for the slideshow.
 - Some models may not be supported.

Playing Videos

Playing Videos

You can select a video from the **Media Player** app and play the video.

Pressing the   buttons on the remote control allows you to skip backward/forward 10 seconds.

You can access more features by pressing the  button on the remote control while

playing a video.




- ❶ Shows the previous video.
- ❷ Plays or pauses the video.
- ❸ Shows the next video.
- ❹ You can change subtitle settings.
- ❺ Rotates videos.
- ❻ Fast-rewinds the video at higher speeds.
- ❼ You can do the settings related to play on repeat of the video.
- ❽ Fast-forwards the video at higher speeds.
- ❾ 360-degree videos can be viewed in 360 degrees.
 - Using the 360° VR Play on a normal video may distort the image.
 - Some models may not be supported.
- ❿ **Resume Play** : You can set continue watching to resume playing from the last viewed scene.
 - Play Speed** : Sets the playback speed.
 - Audio Track** : You can set audio tracks.
 - User Guide** : Move to the **User Guide** app.
 - Quit App** : Turns off the app from running in the background.

Listening to Music

Listening to Music

You can select a song from the **Media Player** app and play the song.

You can use more features by pressing the  button on the remote control while playing a song.



❶ You can set the random play mode.

❷ You can set the repeat play mode.

❸ Lyrics are available for music files that provide them.

In some music files, you can choose a lyric section and move the playback position.

- The lyrics feature is only supported on some devices.

- The lyrics may not be displayed in sync depending on the lyrics data in the music file.

❹ You can listen to music with the screen turned off.

❺ **Lyrics Sync** : You can set the lyric speed.

- This feature may not be supported depending on the music.

User Guide : Move to the **User Guide** app.

Quit App : Turns off the app from running in the background.

Sharing PC Content

Watch content saved in your PC on the TV

You can enjoy videos/music/photos stored on your PC on the TV when these devices are connected to the same network.

Browse the content on your PC to watch on TV (Windows 10)

- 01 Connect your TV and PC to the same network.
 - 02 Right-click the file you want to play and select “Cast to Device”.
 - 03 Select the name of the TV you want to watch from the displayed list, and playback will start on that TV.
- Even when multiple TVs or devices are connected, the selected file is played through only one device. The playback rate may vary depending on the network connection.
 - To play on other operating systems or devices, refer to the manual of the operating system/device.

Browse and watch the content stored on the PC using the TV (Windows 10)

- 01 Connect your TV and PC to the same network.
 - 02 Open the “Start” menu on your PC screen, search for “media streaming options” and then select the result that appears.
 - 03 Select the “Turn on media streaming” button in the window that opens.
 - 04 Allow all of the “media streaming options”.
 - 05 Select “OK” to save the settings.
 - 06 Select the connected PC in the **Home Dashboard** app on the TV, and then select and play the file you want.
- To play on other operating systems or devices, refer to the manual of the operating system/device.

Matters That Require Special Attention during Content Share

- Check your network settings if the Content Share option does not work properly.
- Connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
- May not work properly depending on the network environment.
- If multiple TVs are connected to one device, the content may not be played properly depending upon server performance.
- To watch a 1080p video through the content sharing function, a router using the 5 GHz frequency is required. If you use the existing 2.4 GHz router, the video may be laggy or not play properly.
- The Content Share function may not be supported for a router that does not support multi-cast. For more information, refer to the user guide that came with your router or contact the

manufacturer.

- Captions are only supported on some connected devices.
- If you have added a caption file afterward, disable the shared folder on the PC and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the TV, the supported file format may differ depending on the connected device environment.
- If there are too many folders or files in a folder, it may not work properly.
- The information on the file imported from the connected device may not be displayed correctly.
- Depending upon the encoding, some streams may not play in Content Sharing mode.

Watching PC Screen on TV


Watching PC Screen on TV

Connect Wireless (Windows 10)

- 01 Click the Notification Center icon on the taskbar on the PC screen and select Connect.
 - 02 Select the TV you want to connect to and request the connection.
 - 03 After the connection is established, the TV will display the screen of the connected PC.
- For a reliable connection always keep the connected device to your TV updated to the latest OS version.
 - It is recommended that you use this function at close range.
 - Start Screen Share faster by having your smart device or PC connected to the same network as the TV.
 - Though it can be connected without a wireless router, connecting your device to a 5 GHz router is recommended because the performance can be affected by the surrounding wireless environment.
 - The response rate may vary depending upon the user's environment.
 - It's different from Windows version. For more information on the device you want to connect to, refer to its user guide.
 - If the connection fails repeatedly, turn off the TV and the device you are trying to connect.

Then turn them back on and try again.

Connect Wired







- 01 Connect your PC to the TV using an HDMI cable.
 - 02 Switch the current input source to the port where the HDMI cable is connected in the  ➔ **Home Dashboard**.
 - 03 After the connection is established, the TV will display the screen of the connected PC.
- If there is a problem with your connection, refer to **Troubleshooting** ➔ **Troubleshooting PC Connection Issues** in **User Guide**.

Making the Most of Smart TV

To Use Magic Explorer

To Use Magic Explorer

You can run a search conveniently through various apps based on on-screen text or video information.

- 01 Magic Explorer can be used if the pointer color of the Magic Remote changes (e.g., to the .
- 02 Press and hold the **Wheel (OK)** button on the image if you are watching a broadcast, or on the text if you are using **Guide**, **Settings**, **Sports Alert** or **Art Gallery** apps.
- 03 On the broadcast screen, keywords associated with the program appear.
On the text in the app, an icon appears that allows you to go to an item, such as Web Browser or Search.
- 04 Choose an item to use.
 - You can move an item by pressing the     buttons on the remote control.
- 05 You can exit Magic Explorer by pressing the  button on the remote control.





- You can also use this feature by pressing and holding the **OK** button on the standard remote control.
- Available features vary depending on the region or service.
- Some models may not be supported.

Using Multi View

Using Multi View

You can split the screen and use two apps simultaneously.

- 01 Press the  button on the remote control.
- 02 Select  on the screen.



- 1 You can select a screen layout.
Side by Side : You can view two apps on a split-screen.
PIP : You can run another app on top of the current screen and view it as a pop-up screen.
 - 2 You can choose which app you wish to run alongside the app that is currently running.
- Some apps may not support **Multi View**.

Using **PIP** Mode



- ① You can move the position of the sub-screen.
- ② You can change the size of the sub-screen.
- ③ You can operate the main screen.
- ④ You can operate the sub-screen.
- ⑤ You can select the screen of which to output sound.
- ⑥ Change to **Side by Side** mode.
- ⑦ Closes the app.

Using **Side by Side** Mode




- ① You can operate the selected screen.
- ② The sound of the selected screen is output.
- ③ Change to **PIP** mode.
- ④ Closes the app.

Using the Room to Room Share

Using the Room to Room Share

By connecting multiple TVs in your house, you can connect the video you are watching to a TV in another room or bring up the TV screen from another room.

- 01 Press the  button on the remote control.
- 02 Run the **Room to Room Share** app.
- 03 Select **Connect TV** and follow the on-screen instructions to connect.



- ❶ You can view the TV you are currently using.
 - ❷ Enters the Edit screen. You can view the connected TV and block or delete the connection.
 - ❸ **Send Screen** : You can select a TV on which to continue watching the current screen.
Get Screen : You can select a TV from which to bring up the screen.
If the TV you wish to connect to is not listed, select **Connect TV** to connect the TV.
 - ❹ Connect to the **User Guide**.
- Some models may not be supported.
 - Depending on the model, some features may not be available.
 - Only models that support the **Room to Room Share** feature can be connected and used.
 - Up to five connections can be made to one TV.
 - In order to connect TVs to each other, they must be connected to the same wireless router.
 - When connecting with the LG ThinQ app in **Connect TV**, all TVs to be used with **Room to Room Share** must be registered to the same LG ThinQ account.
 - You can transmit only **Live TV** or set-top box screens connected via HDMI.

- It can only be viewed on the TV that has gotten the screen.
- For some broadcasts, you cannot send or bring up a screen.
- When bringing up a screen, the TV from which the screen is being loaded can be turned on automatically, and the screen is automatically turned off while the screen is being transmitted.

Making the Most of Art Gallery

Making the Most of Art Gallery

You can enjoy a high-definition image provided for each theme.

01 Press the  button on the remote control.

02 Run the **Art Gallery** app.




① View the built-in images for each theme.

② You can view the information and image of the focused theme in advance.

③ You can delete a downloaded theme or select the desired theme to play.

④ Closes the app.

To turn off the app from running in the background, press the  button on the remote control and select **Quit App**.

Surfing the Internet on TV

Using the **Web Browser**

You can enter the website when you input the web address on the URL bar.

If you input the search word, it will find the information about search word base on the search engine.

01 Press the  button on the remote control.

02 Run the **Web Browser** application.




❶ You can refresh the web page you are viewing.

❷ You can type in a web address to navigate to a specific website or enter a search term directly.

❸ You can view the tabs that are currently open.

❹ You can zoom in or out on the screen while browsing the website.

Block Ads : You can block ads within the web page you are viewing.

However, this button is only displayed if  → **Settings** → **Use Block Ads** feature is set to **On**.

TV View : Split the screen to display the TV screen. You can browse web pages while watching TV.

History : You can view and delete the website visit history.

Add to bookmarks : You can add the website you are currently viewing to your Favorites.

Bookmarks : You can view and delete the list of websites you have added to your Favorites.


Settings : You can change the web browser settings.

User Guide : Launch **User Guide**.



Quit App : Turns off the app from running in the background.

❺ Closes the app.

❻ The new tab screen shows a list of **Recommended Sites** and **Most Visited Sites**.

If you do not want **Recommended Sites** to be displayed, set  → **Settings** → **Show Recommended Sites** to **Off**.

Recommended Sites may vary by country and is only available in certain countries.

- The **Web Browser** app on your TV is a browser for TV, so it may work differently than the browser for your PC.
 - Some contents may not be played properly.
 - Flash Plug-in is not supported, and only HTML5 media is supported.
 - Plug-in installation is not supported.
 - Media in formats other than JPEG/PNG/GIF may not be played.
 - Apps may be forced to shut down if the TV runs out of memory.
 - The fonts provided on the TV are used. Depending on the content, characters may look different from PC or mobile browsers.
 - File and font downloads are not supported.
 - Caution is required because malicious or phishing sites are not automatically blocked.
 - Some functions of Web Browser may not be supported temporarily due to external factors.
- The website can be accessed through the TV's **Web Browser** app, so care needs to be taken about children's access to harmful online contents.
You can lock the **Web Browser** app to prevent access to harmful online contents.
Configure the settings in  →  → **General** → **System** → **Safety** → **Application Locks**.
- If you experience problems while using **Web Browser**, refer to **Troubleshooting** in **User Guide**.

Changing **Web Browser** Settings

Select  → **Settings** at the top of the **Web Browser** app.

On Startup

You can choose the page that appears when you start the **Web Browser** app.

Search Engines

You can select a search engine to search for when entering a keyword in the address bar.

- Search engine settings may be subject to change without notice based on the supplier's circumstances.

Show Recommended Sites

You can set whether or not to display a list of **Recommended Sites** on the new tab screen.


Always Show Address Bar

When set to **On**, the address bar and menu bar area at the top will always be displayed.

Automatic Web Browser Issue Report

When it is set to **On**, if a failure (malfunction, media playback failure, page loading failure, abnormal shutdown, delay in response due to insufficient memory, etc.) occurs while using the web browser, the relevant information will be automatically sent to the web browser development team at the LG Electronics headquarters (Korea). The submitted information will only be used to improve the Web Browser performance.

Use Block Ads

When it is set to **On**, if you press the  at the top of **Web Browser**, a button to turn on or off **Use Block Ads** will appear on the screen. Turning on the **Use Block Ads** feature speeds up page loading by blocking ads included in the website.

Site Filtering

You can register websites to block or allow.

Approved Sites : You can configure the settings to open the previously registered web pages only.

Blocked Sites : You can configure the settings to block specific websites.

■ To use the **Site Filtering** function, you should enter the TV password.

Pop-up Blocker

Blocks pop-ups that are automatically displayed by web pages.

Private Browsing

If set to **On**, a history of website visits will not be stored.

Do Not Track

You can request to not leave a history of your visit on the website. The operation may vary depending on the policy of the website.

Adaptive Streaming using JavaScript

The media streaming technology using JavaScript allows you to view video with optimized resolution.

If this is set to **Off**, the resolution of the videos played in **Web Browser** is limited to 720p.

Cookies Settings

Enables the website to store and use cookie data.

Clear Browsing Data

Clear Cookies : Deletes cookie data. When deleted, you are logged out of most sites.

Clear All Browsing Data : Deletes all browsing history, including cookies.

Connecting a Camera to the TV

Connecting a Camera to the TV

By connecting a camera to the TV, you can use it for video conferencing, etc.

01 Connect the camera to the **USB IN** port.

02 Run **Home Dashboard** by pressing the  button on the remote control.

03 Select **Camera**.

- For a detailed description of the camera's functions, refer to the device's manual.

- The camera must be purchased separately.

It is recommended that you use a product that has been tested for compatibility with LG TVs.

Logitech C920/C920s/C922 Pro/C922x/C925e/C930c/C930e


Video Conferencing

You can have a video conference using an Internet website or an app that enables video conferences.

- This function may not be available in some countries or models.

- Internet connection is required to use this feature.


Making the Most of Multi View

By pressing  ➔ **Multi View**, you can run the video screen or broadcast screen, and camera simultaneously. For more information, see **Making the Most of Smart TV** ➔ **Using Multi View** in **User Guide**.

- This feature is available only on models that support the **Multi View** feature.

Using Sports Alert



Using Sports Alert

- 01 Press the  button on the remote control.
 - 02 Run the **Sports Alert** app.
 - 03 You can view the list of teams by league and detailed information.
 - 04 Press **Add** to register your preferred team or player.
By registering a team or player, you can view live scores and upcoming match schedules. You can receive notifications while watching TV by setting a game match alarm.
- The match schedule or status may differ from actual ones depending on the circumstances of the data provider.
 - Real-time alarm may not be available when using certain apps.
 - This feature is available only when the network is connected.
 - Some models may not be supported.

Live Plus

Using the Live Plus Function

Live Plus provides an enhanced viewing experience related to the content you're watching including looking at additional information, participating in events, interacting with advertisements, etc.

- 01 Press the  button on the remote control.
 - 02 Select  → **General** → **System** → **Additional Settings**.
 - 03 Set **Live Plus** to **On**.
- Some models may not be supported.
 - You can still access some of the **Live Plus** features when using external devices such as a set-top box.
 - If you set up a universal remote control, you can use **Live Plus** even when using external devices.

■ This service is only provided for select content with contracted partners.

Settings

Quick Settings

To Use Setting Function Quickly

Displays a set of light-weight controls quickly and simply such as **Picture Mode**, **Sound Out**, **Game Optimizer** and so on.

Press the  button on the remote control.



- ① You can set the **Picture Mode**.
- ② You can set the **Sound Mode**.
- ③ You can choose the **Sound Out**.
- ④ Directs to the **Game Optimizer** settings.
- ⑤ Launch **Multi View**.
- ⑥ Directs to the **OLED Care** settings.
- ⑦ Directs to the **Network** settings.
- ⑧ You can set more options.

■ You can also long-press  button of the remote control to run the All settings directly.

9 You can add/delete the quick setting items or change their order.

- Move to an item that can be set up, press the remote control's **Wheel (OK)** button once, and then press and hold the **Wheel (OK)** button to move to the menu.
- The configurable items differ depending upon model.

Game Dashboard

During a game, you can quickly change the Game Genre and check the settings status in real-time.

Press the  button on the remote control.

- When you connect a game console and run a game, **General** → **Game Optimizer** is changed to **On**, and **Picture** → **Select Mode** is changed to **Game Optimizer**. If Game Dashboard does not display, please check each setting.



1 You can optimize the screen depending on the genre of the game.

2 Real-time signals and the selected genre's settings values are displayed.


- The items displayed may vary by model.

3 **Dark Room Mode** : You can adjust the brightness of the entire screen to reduce eye strain in a dark environment or when watching for a long time to make the screen easier to watch.

Multi View : You can split the screen and use two apps simultaneously.

Menu Color : You can change the color of the menu.

Game Optimizer : Directs to the **Game Optimizer** settings. To see the details, click the **Settings** → **Game Optimizer** in **User Guide**.

All Settings : You can set more options. You can also long-press  button of the remote control to run the All settings directly.

- Some game features may be disabled when running **Multi View** during a game, and the screen may not appear smooth.

 Launch **User Guide**.

■ The configurable items differ depending upon model.

Picture

Selecting Picture Mode

 →  → **Picture** → **Select Mode**

Select the picture mode that is best suited to your viewing environment, preferences or video type.

Select a picture mode. By adjusting and setting each item in more detail based on the mode, your video is better optimized for its characteristics.

■ The configurable items differ depending upon model.

When You Use Normal Signals

Vivid

Sharpens the image by increasing the contrast, brightness and sharpness.

Standard

Displays the picture with normal contrast, brightness and sharpness levels.

APS

APS (Auto Power Saving) mode reduces power consumption by using dimming control.

Cinema

Suitable picture for movies.

Sports / Soccer

Suitable picture for sports games. Sharpens the image of rapid movements such as kicking or throwing a ball.

■ The name of the sport may differ depending on region.

Game Optimizer

Suitable picture for gameplay.

FILMMAKER MODE

Provides optimized Cinema Picture quality certified by UHD Alliance, the standard setting body for UHD-related technologies.

- To auto-switch to **FILMMAKER MODE** when a signal that can be operated with this mode is entered, set **FILMMAKER MODE Auto Start** to **On**.

Expert (Bright space, daytime) / Expert (Dark space, night)

This mode is suitable for movies, etc. viewed in a dark environment.

Expert (Dark space, night) has lower color temperature than **Expert (Bright space, daytime)**.

Select a mode that is suitable for the movie you are watching.

ISFccc : Imaging Science Foundation Certified Calibration Control

When You Use the HDR/Dolby Vision Signals

Vivid

Sharpens the image by increasing the contrast, brightness and sharpness.

Standard

In a normal viewing environment, it opens a screen that can properly show the expressiveness and brightness of HDR.

Cinema Home

The screen appears brighter and clearer than that of the **Cinema** screen.

Cinema


Suitable picture for HDR video signal.

Game Optimizer

Suitable picture for gameplay.

FILMMAKER MODE

Provides optimized Cinema Picture quality certified by UHD Alliance, the standard setting body for UHD-related technologies.

- To auto-switch to **FILMMAKER MODE** when a signal that can be operated with this mode is entered, set **FILMMAKER MODE Auto Start** to **On**.
- If an HDR/Dolby Vision video signal is input to the models that do not support the HDR/Dolby Vision technology, normal signal picture mode options will be made available.
- Depending upon the input signal, the available picture modes may be different.
- When watching online service content, the Picture Mode may be changed to match the content being shown.
-  Expert is an option that allows a picture quality expert to fine-tune the quality of the standard picture. Thus, it may not be effective for a normal picture.
- **Select Mode** changes may modify **Energy Saving** and **Motion Eye Care** settings and it can affect energy consumption. You can change the settings in **General** → **OLED Care** → **Device Self Care** → **Energy Saving** and **Picture** → **Advanced Settings** → **Brightness** → **Motion Eye Care**.

Setting the Screen Size

 →  → **Picture** → **Aspect Ratio** → **User Selection**

You can change the screen size according to the type of content you are watching.

16:9

Displays an aspect ratio of 16:9.

Original

The optimal screen ratio changes depending on the input image signal.

4:3

Displays an aspect ratio of 4:3.

Vertical Zoom

You can adjust the vertical dimension of the screen and align the screen vertically by using **Adjust Zoom Ratio** and **Adjust Screen Position**.

4-Way Zoom

You can adjust the horizontal/vertical/diagonal dimensions of the screen and align the screen horizontally/vertically by using **Adjust Zoom Ratio** and **Adjust Screen Position**.

- The configurable items differ depending upon model.

- The picture may get distorted while zooming in or out.
- Selecting a different screen size from the original size may cause the image to look different.
- Depending on the combination of picture format and screen size, the edges may be hidden or shown in black, or both sides of the picture may flicker. Also, when selecting an item shown on the broadcast screen, the outline may not be aligned correctly.
- Depending upon the input signal, the available screen sizes may be different.

View Screen with **Just Scan**

 →  → **Picture** → **Aspect Ratio** → **Just Scan**

If you turn this feature **On**, you can view the content in the aspect ratio that is in the broadcast signal or content source. If the edge of the screen is not clean please turn it **Off**.

If set to **Auto**, the feature switches between **On** or **Off** status depending on the information contained in the video signal.

- The items that can be selected may vary depending on the current input.

Adjusting the Brightness of a Picture

 →  → **Picture** → **Advanced Settings** → **Brightness**

You can adjust the brightness of the entire screen.

Panel Brightness

Controls the level of screen brightness by adjusting the backlight. The closer to 100 the brighter.

- Decrease the **Panel Brightness** to reduce energy consumption.
- Depending on the **Energy Saving (Auto/Maximum)**, you may not be able to adjust the **Panel Brightness**.

In this case, navigate to  →  → **General** → **Energy Saving** → **Energy Saving Step** and set to **Off** or **Minimum**.

- Depending on your TV model, you might not have the **Panel Brightness** setting.

OLED Pixel Brightness

Adjusts the display brightness by varying the brightness of the OLED panel.

- Depending on the **Energy Saving (Auto/Maximum)**, you may not be able to adjust the **OLED Pixel Brightness**.

In this case, navigate to  →  → **General** → **OLED Care** → **Device Self Care** → **Energy**

Saving → **Energy Saving Step** and set to **Off** or **Minimum**.

- Depending on your TV model, it might not have the **OLED Pixel Brightness** setting.

Adjust Contrast

Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast will be.

Black Level

Adjusts the brightness of dark areas of the screen. The closer it is to 100, the lighter the screen becomes.

Auto Dynamic Contrast

Corrects the difference between the bright and dark areas of the screen for optimal results depending on the brightness of the picture.

Dynamic Tone Mapping

Suitable contrast settings based on image brightness of the HDR content.

Peak Brightness

Adjust peak brightness for the brightest luminance.

Gamma(Adjust Brightness)

Adjusts the medium brightness of the picture.

- **BT.1886** expresses the gradation in ITU-R BT.1886, which is an international standard.

Video Range

Adjusts the darkness of the screen in order to display a perfect black. Select **Video Range** to match the color range of the external input device.

- This feature can be used while watching content through an external input.

LED Local Dimming

Maximizes the contrast ratio by making the bright areas of the screen brighter and the dark areas of the screen darker.

- **Off** : Disables the **LED Local Dimming** function.
- **Low** / **Medium** / **High** : Changes the contrast ratio.

- Turning this option **Off** may increase energy consumption.

Motion Eye Care

Automatically adjusts brightness and reduces image blur based on image data which reduces eyestrain.

- Turning this option **Off** may increase energy consumption.
- Depending upon the input signal or the selected picture mode, the available options may differ.
- The configurable items differ depending upon model.

Adjusting the Color of an Picture

 →  → **Picture** → **Advanced Settings** → **Color**

Color Depth

Tones down or up the colors displayed on the screen. The closer to 100 the deeper the color.

Tint

Adjusts the color balance between red and green displayed on the screen. The closer to Red 50, the redder the color will be. The closer to Green 50, the greener the color will be.

Color Gamut

Selects the range of Colors to display.

Native

Displays more vivid and richer color.

Auto Detect

It automatically sets the **Color Gamut** to match the signal.

Dynamic

It expands the **Color Gamut** to match the scene.

Adobe RGB

Sets the **Color Gamut** to Adobe RGB standards.

Fine Tune

This is used when experts control it by using a test pattern. You can control it by selecting areas of six colors (**Red/Green/Blue/Cyan/Magenta/Yellow**).

For normal images, adjustments may not result in noticeable Color changes.

Color Adjustment

To make the image more colorful and lively adjust the Color and saturation of the picture.

Select Color

From **Red/Green/Blue/Cyan/Magenta/Yellow**, select a tone to adjust.

Adjust Saturation / Adjust Tint / Adjust Luminance

Adjust the chroma/tint/luminance of the tone in the range of -30 to +30.

White Balance

The function to adjust each color to be reproduced more accurately based on white allows you to adjust the overall color tone of the screen to your preference.

Color Temperature

You can set the color to make the display look cooler or warmer.

Method

This method is used for fine-tuning the color temperature setting. You can control the color temperature at two points of the bright part and dark part of the video if you select **2 Points**, at each point of 10 levels if you select **10 Points Signal Level(%)**, and at each point of 22 levels of the video if you select **22 Points Signal Level(%)**.

Point

Select screen brightness for color temperature adjustment.

If **Method** is set to **2 Points**; use Low to select shadows and High to select highlights.

If **Method** is set to **10 Points Signal Level(%)**; you can select brightness using numbers indicating 10 levels.

When the **Method** is set to **22 Points Signal Level(%)**, you can select the brightness with the 22 levels of brightness.

Signal Level(%)

Select screen brightness for color temperature adjustment.

If **Method** is set to **10 Points Signal Level(%)**; you can select brightness using numbers indicating 10 levels.

When the **Method** is set to **22 Points Signal Level(%)**, you can select the brightness with the 22 levels of brightness.

Show brightness level at the maximum signal level(%)

Adjusts the luminance of the highest 100% signal level.

Adjust brightness level at the selected signal level(%)

The brightness of the selected signal level can be adjusted.

- You can do these settings only when the **Picture** → **Select Mode** is the **Cinema**, **Expert (Bright space, daytime)** or the **Expert (Dark space, night)** and when the **Method** is set to **10 Points Signal Level(%)** or **22 Points Signal Level(%)**.

Red / Green / Blue

Adjust the color temperature of the selected point.

Adjust the intensity of **Red/Green/Blue** in the range of -50 to 50.

You can adjust respective values for the brightness selected in **Point**.

- Depending upon the input signal or the selected picture mode, the available options may differ.
- The configurable items differ depending upon model.

Adjusting the Contrast of a Picture

 →  → **Picture** → **Advanced Settings** → **Clarity**

You can adjust the contrast of a Picture to show it more clearly.

Adjust Sharpness

Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image will be.

Super Resolution

Adjusts the resolution to make dim and blurred images clearer.

Noise Reduction

Removes small dots that stand out so as to make the image clean.

MPEG Noise Reduction

Reduces the noise produced during the creation of digital video signals.

Smooth Gradation

It reduces the phenomenon that the outline of the image is rugged and in a staircase pattern and displays a smoother screen.

Real Cinema

Optimize display for movies.

TruMotion

Suitable the image quality of fast-moving pictures.

- **Off** : Turns off the **TruMotion**.
- **Cinematic Movement** : Adjusts the shaking of the motion on the screen to make it feel like you are in a movie theater.
- **Natural** : Sets images with a lot of motions to look natural and clear.
- **Smooth Movement** : Softens fast-moving pictures.
- **User Selection** : Sets **TruMotion** manually.
 - **De-Judder** : Adjusts juddering on the screen.
 - **De-Blur** : Reduces the blurring effects of motion.
 - **OLED Motion / OLED Motion Pro / Motion Pro / NanoCell Motion Pro** : You can make your video clearer by eliminating afterimages.

■ The advanced settings can be changed only in **User Selection** mode.

■ Depending upon the input signal or the selected picture mode, the available options may differ.

■ The configurable items differ depending upon model.

Applying the Current Picture Settings to All Inputs

 →  → **Picture** → **Advanced Settings** → **Apply to All Inputs**

The settings you specify only applies to the currently selected input mode.

To apply your current picture settings to all input modes, select **Apply to All Inputs**.

Resetting Picture Mode

 →  → **Picture** → **Advanced Settings** → **Reset**

If you want to reset the image settings to the factory defaults after configuring the image settings, select reset for each image mode.

FILMMAKER MODE Auto Start

 →  → **Picture** → **Advanced Settings** → **FILMMAKER MODE Auto Start**

If set to **On**, **Picture Mode** will automatically be changed to **FILMMAKER MODE** when a signal that can be operated with **FILMMAKER MODE** is entered.

- While this mode effectively conveys the creator's intention, it may appear darker than other **Picture Mode**.

To Use Reduce Blue light Feature

 →  → **Picture** → **Advanced Settings** → **Reduce Blue light**

The color temperature will be adjusted to reduce eye fatigue.

On

The color temperature of your TV screen is adjusted.

Off

Turns off the **Reduce Blue light**.

- Some models may not be supported.

Sound

Select Mode

 →  → **Sound** → **Select Mode**

You can select the most suitable sound mode for each genre.

AI Sound / AI Sound Pro

Depending on the content you watch, you can enjoy the optimized sound and virtual surround in real time.

Standard

Optimizes the sound for all types of content.

Cinema

Optimizes the sound for cinemas.

Clear Voice / Clear Voice Pro

Boosts voice clarity.

Sports / Soccer / Cricket

Optimizes the sound for sports games.

- The name of the sport may differ depending on region.

Music

Optimizes the sound for music.

Game Optimizer

Optimizes the sound for gameplay.

- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.
- The configurable items differ depending upon model.

Use TV Speaker

 →  → **Sound** → **Sound Out** → **Use TV Speaker**


Audio is played through the TV's internal speakers.

Use Wireless Speaker

 →  → **Sound** → **Sound Out** → **Use Wireless Speaker**

Bluetooth Device

Wirelessly connect a Bluetooth audio device to enjoy TV sound more conveniently. Refer to the user manual of the Bluetooth audio device for details on how to connect and use the device.

- Press  to view the connected devices or any devices that can be connected and connect to any one of them.
 - For some Bluetooth devices, the device volume can be controlled by selecting from the connection list.
 - LG Sound Sync devices will automatically try to connect to the recently used devices when you turn the TV on.
 - We recommend that you connect an LG audio device that supports LG Sound Sync, using LG TV mode or LG Sound Sync mode on the device.
- Some models may not be supported.
 - The audio codec that can be output via Bluetooth is SBC/aptX™.
 - If the device fails to connect, check the power of the device to connect to and check if the audio device is working properly.
 - Using a Bluetooth headset is recommended when you connect two Bluetooth devices.
 - Depending on the type of the Bluetooth device, the device may not connect correctly or an abnormal behavior may occur such as unsynchronized video and audio.
 - The mobile-only headsets may not work.
 - If two different Bluetooth devices are connected and used at the same time, the voice may not match.
 - Sound may stutter or sound quality may be reduced if:
 - the Bluetooth device is too far from the TV;
 - there are obstacles between the Bluetooth device and the TV; or
 - used together with radio equipment such as a microwave oven or wireless LAN
 - If the **Picture** → **Select Mode** is set to **Game Optimizer** and **Sound Out** is set to **Bluetooth Device**, the **Picture** → **Select Mode** changes to **Standard**.
 - If you continue to experience problems, we recommend using a wired connection. (Optical digital, **HDMI (ARC)** port)

WiSA Speakers

You can wirelessly connect the TV to the **WiSA Speakers** to enjoy high-quality sound. Select  to adjust detailed settings for **WiSA Speakers**.

- Some models may not be supported.

- To use the WiSA speakers, you need to connect the exclusive dongle.
- Connection issues between the WiSA Dongle and WiSA Speaker may occur in environments with wireless interference. In this case, contact the speaker manufacturer.
- For more information on the purchase of WiSA authorized products, check on www.wisaassociation.org.

Mobile Device

If you install the LG ThinQ app on a smart device and connect it to your TV, you can use the device as a speaker for the TV.

Use Wired Speaker

 →  → **Sound** → **Sound Out** → **Use Wired Speaker**

Optical Out Device

You can connect an audio device that supports Optical to the optical digital audio output port to enjoy your TV's sound in richer quality and greater convenience.

- Only available for models with an optical digital port.
- For some devices, you can adjust the volume using the TV remote control.

HDMI(ARC) Device

Sound from the TV can be output through an external audio device connected via a **HDMI (ARC)** port.

- Select **HDMI(ARC) Device** to automatically turn on SIMPLINK. Once SIMPLINK is turned off, the output speaker settings automatically revert to the default settings for uninterrupted audio output.

Audio Out Device / Wired Headphones

Select **Wired Headphones** or **Audio Out Device** to optimise audio output according to the device connected.

- Some models may not be supported.
- If you connect the wired headphones while the TV is powered on, it automatically detects the wired headphones and redirects audio through them.

Use External Speakers with TV Speaker






→ → **Sound** → **Sound Out** → **Use External Speakers with TV Speaker**

Audio can be played through multiple devices simultaneously.

Bluetooth Device + TV Speaker

Both the internal speaker of the TV and the Bluetooth speaker can be used to output the sound at the same time or a surround sound can be used.

Up to two Bluetooth devices of the same model can be connected.

- 01 Select  to connect a Bluetooth speaker.
 - 02 Run **Audio Delay** to synchronize the TV's internal speaker with the Bluetooth speaker. You can adjust the sync automatically or manually.
- When you set **Sound Out** as **Bluetooth Device + TV Speaker**, if **Picture** → **Select Mode** is **Game Optimizer**, it will be changed to **Standard** and **Dolby Atmos** will be turned off.
 - While using Screen Share function, the video and audio may be out of sync. We recommend using **Use TV Speaker** in **Sound Out**.
 - To adjust the volume with the volume button on your Bluetooth device, set  →  → **General** → **Accessibility** → **Enjoy TV Sound Together** to **On**. For Bluetooth devices that do not have volume buttons, you can adjust the volume of the device in the detailed settings screen of **Bluetooth Device + TV Speaker**.
 - If  →  → **General** → **Accessibility** → **Enjoy TV Sound Together** is set to **On**, only one Bluetooth device can be connected.
 - Depending on the type of your Bluetooth device, two devices may not be connected at the same time.
 - Depending on the type of the Bluetooth device, the device may not connect correctly or an abnormal behavior may occur such as unsynchronized video and audio.

Optical Out Device + TV Speaker

Audio is played through the TV's built-in speakers and the audio device connected to the digital optical audio output port simultaneously.

Wired Headphones + TV Speaker

Audio is played through the TV's internal speakers and the **Wired Headphones** simultaneously.

- Some models may not be supported.
- If you connect the wired headphones while the TV is powered on, it automatically detects the wired headphones and redirects audio through them.

Dolby Atmos

 →  → **Sound** → **Advanced Settings** → **Dolby Atmos**

Dolby Atmos is based on the concept of audio objects. Any sound can be mixed as a single audio element, an object, that's independently placed in three-dimensional space. Your new LG TV has been enabled with the latest Dolby Atmos sound technology. Dolby Atmos is the ultimate sound experience which creates moving audio that flows around you using TV speakers.

The menu, which acts as On/Off, the default value is **On**. Given the effect of the **Dolby Atmos**, Dolby Atmos content applies. (When turned **On** in the Menu.)

- Some Dolby Atmos contents may not be played.

Balance

 →  → **Sound** → **Advanced Settings** → **Balance**

You can adjust the volume of the left and right speakers.

- This setting is only available for Internal TV Speaker.

Equalizer

 →  → **Sound** → **Advanced Settings** → **Equalizer**

You can adjust the sound by increasing or decreasing the output of the specific frequency range of the voice signal.

- This option can be enabled if **Sound** → **Select Mode** is set to **Standard**.
- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.

Applying the Current Sound Settings to All Inputs

 →  → **Sound** → **Advanced Settings** → **Apply to All Inputs**

The settings you specify only applies to the currently selected input mode. To apply your current sound settings to all input modes, select **Apply to All Inputs**.

Initializing Sound Settings

 →  → **Sound** → **Advanced Settings** → **Reset**

Restores the detailed effect settings for the **Standard** sound mode to the initial settings.

- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.

Installation Type

 →  → **Sound** → **Advanced Settings** → **Installation Type**

This mode optimizes the sound based on the TV setup.

Stand

Select this if the TV is installed in stand-type.

Wall-mounted

Select this if the TV is installed in wall-mounted type.

- This setting is only available for Internal TV Speaker.

Automatic Volume Adjustment

 →  → **Sound** → **Advanced Settings** → **Automatic Volume Adjustment**

If it is set to **On**, the volume will be automatically adjusted to a suitable level for each content you watch to help you enjoy watching more comfortably.

- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.

Adjusting AV Synchronization

 →  → **Sound** → **Advanced Settings** → **Match Screen and Sound**

Adjusts the synchronization of the sound from the speaker that is working.

The closer the value is set to 60, the slower the voice output speed will be than the default speed.

If you select **Bypass**, Outputs the broadcast signals or the sound from external devices without any audio delay. The audio may be output before the video because of the time the TV takes to process the video input.

- Available options vary by **Sound Out** setting.

Select HDMI Input Audio Format

 →  → **Sound** → **Advanced Settings** → **Select HDMI Input Audio Format**

You can set the audio format for each HDMI input.

When connected to devices or content that support the latest surround sound technology, setting to **Bitstream** will enable you to listen to the intended sound quality. When the voice delivered through the HDMI port is not synchronized, set it to **PCM**.

Sound Mode Share

 →  → **Sound** → **Advanced Settings** → **Sound Mode Share**

Plays the sound mode applied to the TV speakers on the soundbar, or selects the sound mode of the soundbar on the TV to play.

Off

Turns off the **Sound Mode Share**.

Enjoy TV Sound Mode

The **Sound** → **Select Mode** set on the TV is applied to the soundbar to deliver a variety of sounds.

Enjoy Soundbar Sound Mode

You can set the sound mode of the soundbar in **Sound** → **Select Mode** on the TV.

- The name of the sound mode displayed on the soundbar may differ from that of the **Sound** → **Select Mode** on the TV, depending on the model. In this case, it will be matched with the Sound Mode with similar effects.

LG Sound Sync

 →  → **Sound** → **Advanced Settings** → **LG Sound Sync**

Connect the LG Sound Sync device to the optical digital input port and set **Sound Out** to **Optical Out Device**.

By setting this feature to **On**, you can adjust the volume of the connected LG Sound Sync device using a TV remote control.

- If the auto-power feature of the sound bar that supports LG Sound Sync is set to On, the sound bar will be turned on or off together when the TV is turned on or off.

Setting Digital Sound Output

🔊 → 🎧 → **Sound** → **Advanced Settings** → **Digital Sound Output**

You can configure the **Digital Sound Output** settings.

- This setting is only available when 🔊 → 🎧 → **Sound** → **Sound Out** → **Use Wired Speaker** is set to **Optical Out Device/HDMI(ARC) Device**.
- When **Pass Through** is enabled, sound effects may not be output.
- The codec output with a device may differ from input signals.

	Sound Input	Digital Sound Output
PCM	All	PCM
Auto / Pass Through	MPEG	PCM
	Dolby Digital	Dolby Digital
	Dolby Digital Plus / Atmos	(Optical) Dolby Digital (HDMI ARC) Dolby Digital Plus / Atmos
	Dolby TrueHD (HDMI only)	(Optical) Dolby Digital (HDMI ARC) Dolby Digital Plus / Atmos
	HE-AAC / AAC	(Optical) Dolby Digital (HDMI ARC) Dolby Digital / Dolby Digital Plus

- Dolby TrueHD , HDMI eARC , Dolby Atmos : Some models may not be supported.
- When connected with HDMI eARC, the output audio type will depend on the audio type supported by the connected device.
 - Depending on the device connected and input audio type, it can be output as Dolby Metadata-Enhanced Audio Transmission PCM (Dolby MAT PCM).
 - If **Digital Sound Output** is set to **Pass Through** and HDMI input is Dolby TrueHD or Multi-Channel PCM, audio can be output as Bypass.

Using eARC Supported Audio Device

 →  → **Sound** → **Advanced Settings** → **eARC Support**

eARC is a technology that can send and receive more sound information faster thanks to its wider bandwidth than that of the conventional ARC. You can enjoy TV sound with higher quality than ARC through a connected audio device.

- 01 Connect an audio device that supports eARC to the **HDMI (ARC)** port.
- 02 Go to **Sound Out** → **Use Wired Speaker** and choose **HDMI(ARC) Device**.
- 03 Set **eARC Support** to **On**.

Always Ready

Always Ready

 →  → **General** → **Always Ready**



Set **Enable the function** to **On**.

Turning off the TV switches it to **Always Ready** and displays the selected screen wallpaper, and then you can use voice recognition or output sound from your smart device to the TV speaker.

You can also turn on the TV with the voice recognition feature of an external AI speaker connected to the TV.

Selecting **Use Always Ready without wallpaper** enables **Always Ready** to be used without displaying the wallpaper.

For more information, see **Getting Started with LG webOS TV** → **Using Always Ready** in **User Guide**.



- Energy consumption may increase during **Always Ready**.
- To use voice recognition in **Always Ready**, set **Use Hands-free Voice Control** to **On** in  →  → **General** → **AI Service** → **Voice Recognition Settings**.
- Some models may not be supported.

AI Service

AI Picture Pro

→ → **General** → **AI Service** → **AI Picture Pro**

When set to **On**, artificial intelligence, which has been trained with LG Electronics' deep learning techniques, finds the most suitable resolution according to the video type and displays it using vivid, realistic, and rich colors.

- It is supported for only digital broadcasting, videos of a USB memory device, and HDMI video input.
- If  →  → **Picture** → **Select Mode** is **Game Optimizer**, you cannot set up this feature.
- It does not work with copy protected content.

AI Brightness Settings

→ → **General** → **AI Service** → **AI Brightness Settings**

Set to **On**. AI adjusts the dark areas according to the brightness around your TV and specific contents.

AI Genre Selection

→ → **General** → **AI Service** → **AI Genre Selection**



When set to **On**, the image quality is automatically optimized for the genre of the content by the artificial intelligence.

- It does not work with copy protected content.

AI Sound / AI Sound Pro

→ → **General** → **AI Service** → **AI Sound / AI Sound Pro**

If set to **On**, the optimal sound and realistic surround effects are provided per the content based on artificial intelligence.

- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.
- When this feature is set to **On**,  →  → **Sound** → **Select Mode** is changed to **AI Sound/AI Sound Pro**.
- The configurable items differ depending upon model.

AI Acoustic Tuning

→ → **General** → **AI Service** → **AI Acoustic Tuning**

With the **AI Acoustic Tuning** feature, you can detect the space where your TV is installed using your Magic Remote's microphone to optimize the audio of your TV for your environment.

Select **Start New Sound Tuning** to measure the space in which the TV is installed. When the initial detection is complete, you can select your desired audio mode.

- **Off** : This option disables the use of **AI Acoustic Tuning**-adjusted audio. Selecting this option outputs your TV's default sound without making any adjustments to it.
 - **Standard** : Selecting this option outputs **AI Acoustic Tuning**-adjusted audio in Standard mode. This mode provides a clean and natural sound.
 - **Bass Boost** : Selecting this option outputs **AI Acoustic Tuning**-adjusted audio with an emphasis on bass.
 - **Treble Boost** : Selecting this option outputs **AI Acoustic Tuning**-adjusted audio with an emphasis on treble.
- If there is more than a library noise level (over 30 ~ 40 dBA), we recommend that you install from within 3 meters (9.8 feet).
 - This function may not work properly
 - The background noise is too large over 40 dBA.
 - TV and Magic Remote distance 5 meters (16.4 feet) or more.

Viewing **Voice Recognition Help**

 →  → **General** → **AI Service** → **Voice Recognition Help**

It shows a list of voice commands the TV can perform.

Using **Voice Recognition Settings**

 →  → **General** → **AI Service** → **Voice Recognition Settings**

You can apply settings for voice recognition features.

AI Recommendation

 →  → **General** → **AI Service** → **AI Recommendation**

You can get content recommendation messages according to your content viewing history and app usage history.

Alarm

Who.Where.What?

You can get recommendations for the information related to the broadcast you are watching.

- This feature may not be available in some countries.

Smart Tips

You can get an introduction to smart features you can use when watching TV or using an app.

Next Picks

You can get recommendations based on your TV viewing patterns.

- This feature may not be available in some countries.

Sports Alert

Move to the **Sports Alert** app. You can check information about sports events and set alarms.

For more information, see **Making the Most of Smart TV → Using Sports Alert** in **User Guide**.

Usage Data Management

Reset Usage Data

It resets the content view history and the app usage history. If you reset them, it takes some time to receive recommendations for contents again.

- The configurable items differ depending upon model.

Game Optimizer





Game Optimizer

Sets up the features for an immersive experience when you play with a video game console.

01 Press the  button on the remote control.

02 Select **Game Optimizer**.

03 Selecting **On** turns on all related settings.

- It only works with HDMI inputs.
- If you set  →  → **Picture** → **Select Mode** to a mode other than **Game Optimizer**, some items in **Game Optimizer** cannot be set.
- If you turn this feature **On**, you cannot change some video settings items.
- When **Game Optimizer** is set to **On**, audio delays may occur if you set **Sound Out** to **Bluetooth Device**/**WiSA Speakers**/**Optical Out Device**/**HDMI(ARC) Device**. Switch to **Use TV Speaker** or change  →  → **Sound** → **Advanced Settings** → **Select HDMI Input Audio Format** to **PCM**.
- The configurable items differ depending upon model.

Game

Game Genre

You can optimize the screen depending on the genre of the game.

OLED Motion / OLED Motion Pro

You can make your video clearer by eliminating afterimages.

Reduce Blue Light

You can adjust the blue light output to rest your eyes while watching the screen.

Dark Room Mode

You can adjust the brightness of the entire screen to reduce eye strain in a dark environment or when watching for a long time to make the screen easier to watch.

Prevent input delay (input lag)

Minimize the input delay according to the image signal.



Game Dashboard

If you set this option to **On**, you can use the **Game Dashboard** feature.

- Please see **Settings** → **Quick Settings** → **Game Dashboard** of **User Guide** for more information about **Game Dashboard**.

AI Game Sound

Optimizes the sound for gameplay.

- When this feature is set to **On**,  →  → **Sound** → **Select Mode** is changed to **Game Optimizer**.
- This setting only applies to the internal speakers of the TV or **HDMI (ARC)** connected devices that support **TV Sound Mode Share**.

VRR

This reduces screen cracking and video lagging during game play.

VRR & G-Sync

NVIDIA's display adaptive sync technology adjusts frames to minimize screen tearing and stuttering.

AMD FreeSync Premium

AMD's display adaptive sync technology adjusts the injection rate to minimize screen breaks and stuttering.

Fine Tune Dark Areas

You can calibrate the brightness of the dark areas with **VRR**, **VRR & G-Sync** or **AMD FreeSync Premium** set to **On**.

- It may not operate normally depending on the features or settings of the connected PC or game console.

Menu Color

Menu color of **Game Optimizer** and **Game Dashboard** can be changed.

User Guide

Move to the **User Guide** app.

Picture

Black Stabilizer

You can fine-tune dark areas.

White Stabilizer

You can fine-tune light areas.

Adjust Contrast

Adjusts the contrast of the bright and dark areas of the picture.

Black Level

Adjusts the overall screen brightness.

You may use the **Black Level** settings specifically to set the dark part of the image.

Adjust Sharpness

Adjusts the sharpness of the image.

Color Depth

Tones down or up the colors displayed on the screen.

Dynamic Tone Mapping

Suitable contrast settings based on image brightness of the HDR content.

Reset

You can reset the settings.

Wide Aspect Ratio

You can set the screen ratio optimized for the game.

Screen Position

You can change the position of the screen when you set it to a widescreen ratio.

Advanced Picture Settings

Move to the  →  → **Picture** → **Advanced Settings**.

OLED Care

OLED Care

→ → **General** → **OLED Care**

It provides various premium care services for OLED TV users.

Care Picture Settings

It sets the screen mode suitable for your viewing pattern.

■ **Picture** → **Select Mode** cannot be set while using the **Care Picture Settings**.

Off

Turns off the **Care Picture Settings**.

Comfort Mode

Displays the picture with normal contrast, brightness and sharpness levels.

Theater Mode

Suitable picture for movies.

Kids Care Mode

It adjusts the blue light to make the screen easier for children to view.

Device Self Care

It provides multiple features to optimize the TV's condition.

Memory Optimizer

Optimize your TV by cleaning up unused apps or unnecessary memory.

Screen Self-diagnosis

After running a test to verify that the image signal is output normally, you can select whether there is an error with the signal on the screen.

If there are no problems in the test, check the connected external device or broadcast signal.

Sound Self-diagnosis

Start the Sound Test to check that the sound signal output is normal, and then select whether there is an error.

If there are no problems in the test, check the connected external device or broadcast signal.

Energy Saving

Reduces power consumption by adjusting peak screen brightness.

Energy Saving Step

- **Auto** : TV sensor detects the ambient lighting and automatically adjusts the screen brightness.
 - Some models may not be supported.
- **Off** : Turns off the **Energy Saving Step**.
- **Minimum / Medium / Maximum** : Use the power saving feature according to **Energy Saving Step** set on TV.

Minimum Brightness

You can set how dark the screen is when the **Energy Saving Step** is set to **Auto**.

Auto Power Off

When the TV is on, it turns off automatically if you do not press any button within the set period of time.

- Some models may not be supported.

Screen Off

Screen is turned off and only sound is played.

Press any button except the power and the volume buttons to turn the screen back on.

- Some models may not be supported.
- If you use **Energy Saving Step** function, brightness of your TV will be affected.

OLED Panel Care

With **OLED Panel Care**, you can improve image quality issues related to image sticking when the screen has been on for a certain amount of time.

Pixel Cleaning

It calibrates any issues that may arise on the screen when your TV has been turned on for a long time.

Calibration takes more than an hour.

- Do not unplug the power cord while it is in progress.
- If you power on the TV, the **Pixel Cleaning** will stop operating.

Screen Move

This moves the screen slightly at regular intervals to prevent image sticking on the display panel.

Adjust Logo Brightness

Adjust the luminance of static images such as logos within content to correct potential picture quality issues.

Care Recommendations

You can turn the Care Recommendations ON or OFF.

Family Settings

Usage Limits Setting

 →  → **General** → **Family Settings** → **Usage Limits Setting**

You can use the TV in the set time period only. Outside of the set time period, you must enter your password to use the TV.

- 01 Set **Enable this function** to **On**.
- 02 Set **Start Time** and **End Time**.
Selecting **Repeat** will activate this feature every day.
- 03 Select **Set**.

- For instructions on how to reset the password, refer to **Settings** → **System** → **Safety** in **User Guide**.

Eye Care Mode

 →  → **General** → **Family Settings** → **Eye Care Mode**

Set **Enable this function** to **On**. A screen with lowered blue light is displayed for the protection of your eyes.

- Using **Eye Care Mode** sets  →  → **Picture** → **Advanced Settings** → **Reduce Blue light** to **On**.

Volume Limit Mode

 →  → **General** → **Family Settings** → **Volume Limit Mode**

Set **Enable this function** to **On**. The volume cannot be raised above a certain level for the protection of your hearing.

- **Volume Limit Mode** may not work for audio devices connected to the optical digital/**HDMI (ARC)**/headphone port.

Screen Time Reports

 →  → **General** → **Family Settings** → **Screen Time Reports**

You can check your TV usage time.

Channels

Automatically Setting Up Channels

 →  → **General** → **Channels** → **Channel Tuning** → **Auto Tuning**

This function automatically searches and remembers channels that are available for viewing.

- If the **Antenna** or **Cable** is not connected properly, channels are not added.
- **Auto Tuning** finds and adds only channels being broadcast.
- A password box will appear in **Safety** mode.

To Use Manual Channel Tuning

 →  → **General** → **Channels** → **Channel Tuning** → **Manual Tuning**

This function is for manually searching and saving channels.
You can check the signal strength of digital broadcasting.

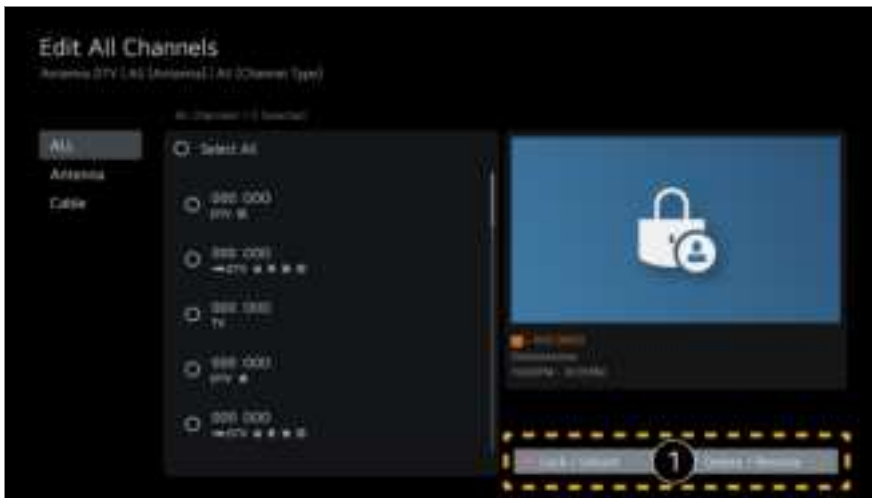
Edit Channels

You can edit the selected channels from all the stored channels or add/delete them to/from the favorite channels.

Edit All Channels List

 →  → **General** → **Channels** → **Channel Manager** → **Edit All Channels**

You can lock or unlock the selected channels from all the stored channels or you can set them to be skipped when switching channels.



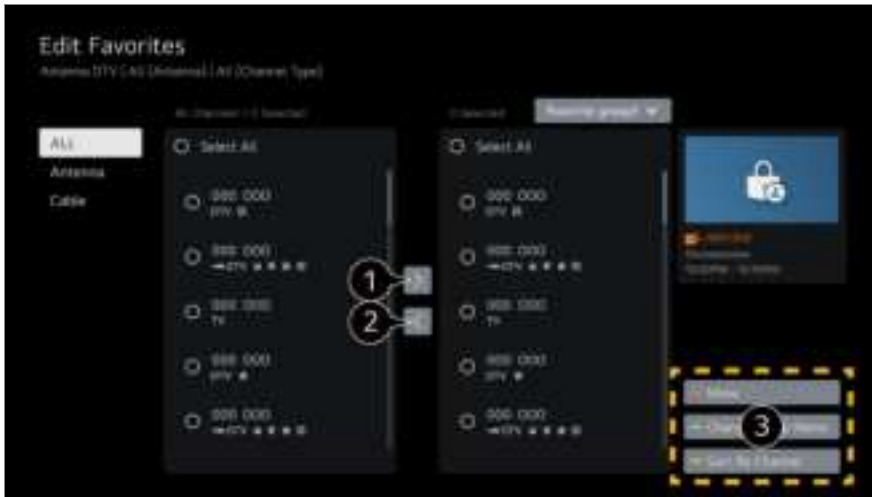
1 Lock / Unlock : Lock the selected channels or unlock the locked channels.

Delete / Restore : Set the selected channels to be skipped when switching channels, or disable the skipping option of the channels previously set to be skipped.

Edit Favorite Channels List

 →  → **General** → **Channels** → **Channel Manager** → **Edit Favorites**

You can add/delete desired channels to/from the favorite channels, change their positions, etc.



- ❶ Select the desired channels from the all channels list and press the button to add them to the favorite channels list.
 - ❷ Delete the selected channels from the favorite channels list.
 - ❸ **Move** : Select one or more channels in the Preferred Channels list, press the **Move** button, and then select the position to move it to. The selected channels will move to the position you selected.
Change Group Name : Change the name of the favorite channels list.
Sort by Channel : Sorts the list of favorite channels by channel.
- If you have set up the Internet channels, you can also lock them, set them to be skipped, or add them to the favorite channels list.
(Some models may not be supported.)

Network

Setting a Wired Network

⚙️ ➔ 📶 ➔ **General** ➔ **Network** ➔ **Wired Connection (Ethernet)**

If the router connected to the network supports the DHCP feature, connecting the TV and router by wire will automatically connect to the network. If the automatic setup is not supported, you can select **Edit** to manually set up the network connection.

- Some models may not be supported.

Setting a Wireless Network

→ → **General** → **Network** → **Wi-Fi Connection**

You can check and connect to the available wireless Internet networks; if you have set up the TV for a wireless network. Select the wireless router to connect.

For more detailed settings, select **Other Network**.

Add a Hidden Wireless Network

You can add a wireless network if you input the name of the network directly.

Connect via WPS PBC

If the wireless router you want to connect to has a Wi-Fi Protected Setup-Push Button Configuration (WPS-PBC) feature, you can easily connect to the wireless router by pressing the WPS-PBC button on the router. Press the wireless router's WPS-PBC button and then press the TV's [Connect] button.

Connect via WPS PIN

This is a method to connect to an access point using a Wi-Fi Protected Setup-Personal Identification Number (WPS-PIN). Select the access point (AP) to which you would like to connect. Enter the PIN displayed on the access point's Wi-Fi device.

Advanced Wi-Fi Settings

Once you connect to a wireless network you can view connection information such as detailed IP address information. In addition, you can change the IP address and DNS server address you want to connect to by pressing the **Edit** button.

- For more information on how to connect to the network, see **Getting Started with LG webOS TV** → **Connecting to the Network** in **User Guide**.

Devices

Setting TV

→ → **General** → **Devices** → **TV Management**

Home/Store Mode

You can choose between **Home Mode** and **Store Mode**.

To use the TV at home, select **Home Mode**.

Select **Store Mode** only when the TV will be displayed in store. The **Store Mode**

provide settings optimized for store display.

Quick Start+

This setting puts your TV in standby mode when it's turned off so it will start up more quickly the next time it's turned on.

Set **Quick Start+** to **On**.

- Some models may not be supported.
- Turning this option on may increase energy consumption.

TV Information

You can view information including **Model**, **Serial Number**, **Device Name**.

Managing External Device Connections

 →  → **General** → **Devices** → **External Devices**

You can set to use a smart device connected to the TV to control the TV or manage the connection history.

- The configurable items differ depending upon model.

Connect Bluetooth Controller

You can connect and use devices such as a Bluetooth-enabled keyboard, mouse, or a gamepad with your TV.

Turn on the device, set it to pairing mode, and then click **Connect** on your TV screen. When a device you've connected before is turned on, it automatically connects to your TV. To disconnect the existing connection, click **Disconnect**.

- It is recommended that you use a product that has been tested for compatibility with LG TVs.
Bluetooth Mouse : Logitech M535, Logitech MX Master 2S, Apple Magic Mouse2
Bluetooth Keyboard : Logitech K480, Artek HB030B, Artek HB192, Apple Magic Keyboard
Bluetooth Gamepad : Sony Dualshock4, Microsoft Xbox One S Controller, Microsoft Xbox Series X Controller, NVIDIA SHIELD Controller
- This feature is available for Bluetooth-enabled models only.
- Connecting multiple Bluetooth devices may result in poor connection or operation.
- If the Bluetooth device is too far from the TV, or there are obstacles between them, they may not operate normally.
- Depending on the peripherals (wireless router, microwave oven, etc.), communication failures may occur.
- If the device you selected from **Registered Devices** does not reconnect, **Disconnect**

and then reconnect the device.

- It differs among devices. When trying to connect to a device, refer to the device's User's Guide for more information.

Camera

You can set access permissions to the camera for each app.

Universal Control Settings

If you set up the universal remote control, you can control peripheral devices connected to the TV with the Magic Remote instead of their own remote controls. For more information, see **How to Operate TV → Using Universal Remote Control** in **User Guide**.

TV On With Mobile

If **Turn on via Wi-Fi** or **Turn on via Bluetooth** is set to **On**, you can turn on your TV using an application that supports **TV On With Mobile**.

- The TV should be connected to a network.
- The TV and the device to be used should be connected to the same network.
- The **Turn on via Wi-Fi** feature must be used in an app on a smart device that supports the feature.
- **Turn on via Bluetooth** is only available on some smartphones.
- The TV must be plugged in.
- To connect for the first time make sure the device to be used is ready to connect.
- Some models may not be supported.

Delete Connection History

You can delete the connection history of the devices connected to the TV on the wireless network.

Setting HDMI External Input

 →  → **General** → **Devices** → **HDMI Settings**

You can apply settings to ensure a clear picture and easy control for the HDMI connected devices.

HDMI Deep Color

If you connect a device that supports **HDMI Deep Color**, you can enjoy a clearer

image. After connecting the playback device, set **HDMI Deep Color** to **4K**.
If the connected device does not support this function, it may not work properly.
When a problem occurs, please change the **HDMI Deep Color** setting to **Off**.

Supported Display Resolution

- 4K : Supports 4K@120 Hz (4:4:4, 4:2:2, 4:2:0) (120 Hz models only), 4K@60 Hz (4:4:4, 4:2:2, and 4:2:0)
- Off : Supports 4K@60 Hz (4:2:0)

4K @ 50/60 Hz Support Format (60 Hz models only)

Resolution	Frame rate (Hz)	Color Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 × 2160p	50	YCbCr 4:2:0	YCbCr 4:2:0 ¹⁾	YCbCr 4:2:0 ¹⁾
4096 × 2160p	59.94			
	60	YCbCr 4:2:2 ¹⁾	YCbCr 4:2:2 ¹⁾	YCbCr 4:2:2 ¹⁾
		YCbCr 4:4:4 ¹⁾	-	-
		RGB 4:4:4 ¹⁾	-	-

4K @ 100/120 Hz Support Format (120 Hz models only)

Resolution	Frame rate (Hz)	Color Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 × 2160p	50	YCbCr 4:2:0	YCbCr 4:2:0 ¹⁾	YCbCr 4:2:0 ¹⁾
4096 × 2160p	59.94			
	60	YCbCr 4:2:2 ¹⁾	YCbCr 4:2:2 ¹⁾	YCbCr 4:2:2 ¹⁾
		YCbCr 4:4:4 ¹⁾	YCbCr 4:4:4 ^{1) 2)}	YCbCr 4:4:4 ^{1) 2)}
		RGB 4:4:4 ¹⁾	RGB 4:4:4 ^{1) 2)}	RGB 4:4:4 ^{1) 2)}

100 ^{1) 2)}	YCbCr 4:2:0	YCbCr 4:2:0	YCbCr 4:2:0
120	YCbCr 4:2:2	YCbCr 4:2:2	YCbCr 4:2:2
	YCbCr 4:4:4	YCbCr 4:4:4	YCbCr 4:4:4
	RGB 4:4:4	RGB 4:4:4	RGB 4:4:4

1) Supported when **HDMI Deep Color** is set to **4K**.

2) This feature is available for **HDMI (4K@120 Hz) IN** terminals only.

- You can only change the settings of the **HDMI IN** you are watching at the time.
- You can specify a different setting for each HDMI port.

SIMPLINK (HDMI-CEC)

You can conveniently control and use various multimedia devices connected through HDMI with the TV remote control.

To see the details, click the **How to Operate TV** → **Connecting to SIMPLINK (HDMI-CEC)** in **User Guide**.

System

Configuring Language Settings

 →  → **General** → **System** → **Language**

You can choose the menu language displayed on the screen and the audio language of the digital broadcast.

Menu Language

You can select one of the menu languages to be displayed on the screen. The language for the speech recognition will be automatically set to the selected language for the menu.

- The speech recognition is only applied to some models.

Audio Language

You can choose the language you want when watching a digital broadcasting program, which includes multiple audio languages.
For programs that do not support multiple languages, the default will be used.

- Applies to digital broadcasting.

Keyboard Languages

Select the language to use the on-screen keyboard.

Setting the Location

 →  → **General** → **System** → **Location**

You can change the location setting of your Smart TV.

Broadcast Country

You can set the broadcast country on your TV.

Zip Code

This function is used to set the broadcast location of the TV by entering your zip code.

LG Services Country

If you haven't selected **Set Automatically**, you can select the country manually.

- You must set the country manually when you are not connected to the network.
- The configurable items differ depending upon model.

Time & Timer

 →  → **General** → **System** → **Time & Timer**

You can check the time or configure related settings.

Set Automatically

The TV time is automatically set to the time of digital broadcasting information sent from the broadcasting station or the time sent from the server.

Time / Date / Time Zone

You can set the time and date manually if the automatically set current time is incorrect.

- If you set the time manually with the antenna connected, schedule information, program guide, etc. may not function correctly.

Timers

Sleep Timer

Sets the TV to turn off at a specified time.

If you do not want to use **Sleep Timer**, select **Off**.

Power On Timer

Set **Power On Timer** to **On**.

The TV is turned on and displays the set channel at the set time.

- **Time** : Set the time at which to turn the TV on.
- **Timer Repeat** : Set the day of the week. Set the option to **None** to operate the feature only once.
- **Input** : Set an external input to display when the power is turned on.
- **Timer Channel** : Set a channel to display when the power is turned on. This option can be set only when **Input** is set to **TV**.
- **Volume** : Set audio volume to use when the power is turned on.

Power Off Timer

Set **Power Off Timer** to **On**.

The TV is turned off at the set time.

- **Time** : Set the time at which to turn the TV off.
- **Timer Repeat** : Set the day of the week. Set the option to **None** to operate the feature only once.

Auto Power Off after 4 Hours

If you do not press any button for 4 hours after the TV is turned on by a feature such as **Power On Timer**, the TV will be turned off automatically.

To ensure the TV does not automatically turn off set **Auto Power Off after 4 Hours** to **Off**.

- Some models may not be supported.

- To use **Power On Timer/Power Off Timer** set the time correctly.

Setting Safety

 →  → **General** → **System** → **Safety**

You can put a lock on TV broadcasts or apps.
Set it to **On** to apply the lock.

TV Program Locks

TV Lock

Locks the TV shows you do not want your children to watch. In addition, locks the TV shows of your choice based on ratings by using the parental control function (V-Chip).

- Children Age : TV-Y (Preschool children aged 2-6 years), TV-Y7 (Advise school children aged over 6)
- Fantasy Violence : TV-Y7 (Advise school children; Suitable for children aged over 7 years. May contain fantasy violence.)
- General Age : TV-G (General Audience. All ages admitted.) TV-PG (Parental Guidance Suggested. Some material may not be suitable for preschool children.) TV-14 (Parents Strongly Cautioned. Some material may not be suitable for children under 14.) TV-MA (Adults Only. Not suitable for children under 17.)
- Sexually Suggestive Dialogue : TV-PG or TV-14
- Adult Language (Violent Language) : TV-PG, TV-14 or TV-MA
- Sexual Situations (Sexually Explicit) : TV-PG, TV-14 or TV-MA
- Violence : TV-PG, TV-14 or TV-MA

■ The configurable items differ depending upon model.

Movie Lock

Blocks films that are broadcast and contain inappropriate content, based on the Motion Picture Association of America (MPAA) rating.

- G : (General Audiences) All ages admitted
- PG : (Parental Guidance Suggested) Some content is inappropriate for children
- PG-13 : (Parents Strongly Cautioned) Some material may be inappropriate for children under 13.
- R : (Restricted) Under 17 requires accompanying parent or adult guardian.
- NC-17 : No one 17 and under admitted.
- X : Adults only

- The configurable items differ depending upon model.

Downloadable Rating

This function is only enabled when the TV receives the Region5 rated data. The name of the rating option may differ.

- Supported only in the digital mode.

Channel Locks

Blocks the channels that contain inappropriate contents for children. The channels can be selected but the screen is blank and the audio is muted. To watch a locked channel, enter the password.

Application Locks

You can lock or unlock the application.

- The lock function is not immediately available for the currently running application.

Input Locks

You can lock or unlock the Inputs.











Reset Password

Set or change the password for the TV.

- The default password is set as "0000".

Resetting a Lost Password

If you lose the password you set, you can reset it as follows:

- 01 Press the  button on the remote control.
- 02 Select  → **General** → **System** → **Safety**.
- 03 Press  (Channels)  →  (Channels)  →  (Channels)  →  (Channels)  on the remote control. The master password input window will appear.
- 04 Enter the numbers "0313" in the master password input window, then press **Enter**. The password will be reset.

Setting Safety

 →  → **General** → **System** → **Safety**

You can put a lock on TV broadcasts or apps.
Set it to **On** to apply the lock.

TV Program Locks

TV Rating English

Select Canadian English Rating System.

- E : Exempt
- C : Children
- C8+ : Children aged 8 or older
- G : All ages admitted
- PG : Parental Guidance Suggested
- 14+ : 14 or older
- 18+ : Adults only
- Off : View all programs

■ The configurable items differ depending upon model.

TV Rating French

Select Canadian French Rating System.

- E : Exempt
- G : All ages admitted
- 8+ : Children aged 8 or older
- 13+ : Suitable for 13 years and over
- 16+ : Suitable for 16 years and over
- 18+ : Adults only
- Off : View all programs

■ The configurable items differ depending upon model.

Downloadable Rating

This function is only enabled when the TV receives the Region5 rated data. The name of the rating option may differ.

■ Supported only in the digital mode.

Channel Locks

Blocks the channels that contain inappropriate contents for children. The channels can be selected but the screen is blank and the audio is muted. To watch a locked channel, enter the password.

Application Locks

You can lock or unlock the application.

- The lock function is not immediately available for the currently running application.

Input Locks

You can lock or unlock the Inputs.











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- 01 Press the  button on the remote control.
- 02 Select  → **General** → **System** → **Safety**.
- 03 Press  **(Channels)**  →  **(Channels)**  →  **(Channels)**  →  **(Channels)** 
on the remote control. The master password input window will appear.
- 04 Enter the numbers "0313" in the master password input window, then press **Enter**.
The password will be reset.

Managing Your LG Account

In **LG Account**, you can use your email address to create a new LG account.

For more information, see **Getting Started with LG webOS TV → Managing Your LG Account** in **User Guide**.

Using Notifications

 →  → **General** → **System** → **Additional Settings** → **Notifications**

You can view or delete notifications from TV apps and LG services. For notifications that support shortcuts, you can go directly to that app or website.



- ① You can check the details by selecting the desired item. If it supports shortcuts, you can launch the app.
- ② You can delete notifications.
- ③ Closes the app.
To turn off the app from running in the background, press the **■ ■ ■** button on the remote control and select **Quit App**.

Home Settings

⚙️ → 🏠 → General → System → Additional Settings → Home Settings

Home Auto Launch

You can set Home to launch automatically when turning on the TV.

Home Promotion

You can turn on or off the advertisements on the Home screen.

- The configurable items differ depending upon model.

To Set Power Indicator

⚙️ → 🏠 → General → System → Additional Settings → Standby Light

You can turn the standby light on or off.

- Some models may not be supported.

Setting the Pointer of Magic Remote

⚙️ → 🏠 → General → System → Additional Settings → Pointer Options

You can set the pointer speed and size you want while it is on the screen.

Tracking Speed

Sets the pointer speed.

Pointer Size

Selects the pointer size.

Advertisement

 →  → **General** → **System** → **Additional Settings** → **Advertisement**

If your TV is connected to the Internet, webOS may use a frequency capping cookie to keep track of the number of times an ad is shown on your TV.

This information is used to help limit the number of times the same ad is displayed. You can clear this cookie or turn it on or off at any time by going to the **Advertisement** setting on your TV.

No personally identifiable information is tied to this cookie.

Reset AD ID

User interest information is newly collected, and advertisements are provided according to the information.

■ Some models may not be supported.

Using the Live Plus

Live Plus is a service that provides a variety of information about the programs you watch.

To see the details, click the **Making the Most of Smart TV** → **Live Plus** in **User Guide**.

■ Some models may not be supported.

To Use Settings Help

 →  → **General** → **System** → **Additional Settings** → **Settings Help**

When set to **On**, you can get help for the selected items when navigating through the Settings menu.

To Use Audio Guidance

 →  → **General** → **Accessibility** → **Audio Guidance**

If **Audio Guidance** is set to **On**, audio guides will be provided in various situations, such as when you change channels, adjust the volume or change settings and input signals.

Speed

Adjust the speed of spoken guide.

Volume

Adjust the volume of spoken guide.

Pitch

Adjust the tone of spoken guide.

- This feature is available on certain languages only.
- Some models may not be supported.
- The configurable items differ depending upon model.
- For visually impaired users.
- Setting the **Audio Guidance** to **On** automatically switches the **TV Power Sound** (only available on certain models) to **On** as well.

TV Power Sound

 →  → **General** → **Accessibility** → **TV Power Sound**

This feature lets you turn on/off the sound effects that you hear when your TV is switched on or off.

- Some models may not be supported.
- Setting the **Audio Guidance** to **On** automatically switches the **TV Power Sound** to **On** as well.

Enjoy TV Sound Together

 →  → **General** → **Accessibility** → **Enjoy TV Sound Together**

The sound simultaneously outputs to the TV's built-in speaker and Bluetooth device, so that users with different hearing abilities can watch TV together.

Set to **On**. **Sound Out** changes to **Bluetooth Device + TV Speaker**.

The existing Bluetooth connection history will then be deleted.

- For Bluetooth devices, earphone or headset type is recommended.
- For instructions on how to connect and set up a Bluetooth device, refer to **Settings** → **Sound** → **Use External Speakers with TV Speaker** in **User Guide**.

Changing the Menu to High-Contrast Screen

 →  → **General** → **Accessibility** → **High Contrast**

When this feature is set to **On**, it adjusts the background of some of the menus on the screen and font colors to highlight the contrast between the light and dark areas.

Grayscale

 →  → **General** → **Accessibility** → **Grayscale**

Change the color of the menu on the screen to black and white tone to make its ambiguity very clear. Set to **On**.

Invert Colors

 →  → **General** → **Accessibility** → **Invert Colors**

To enhance the visibility of the menus on the screen, you can invert and calibrate certain colors in some menus. Set to **On**.

To Set Closed Caption

 →  → **General** → **Accessibility** → **Closed Caption**

View closed captions when the TV station provides closed captioned programming. Closed caption broadcasting is only available for digital/analog broadcasts. Change **Closed Caption** to **On** and select caption setting.

Analog Mode

CC 1 - CC 4 (Closed Captioning) / **TEXT 1 - TEXT 4**

Displays the audio portion of a TV program as text on the TV screen. **CC 1** is the most common mode in use.

Field 1 data channels : two Captions (CC1, CC2), two Text (T1, T2).

Field 2 data channels : two Captions (CC3, CC4), two Text (T3, T4).

Digital Mode

According to the digital broadcasting type you are watching, you can select the caption in **HD Mode** or the **NEXTGEN TV Mode**.

- In the case of HD broadcasting, you can set the size and color of the caption at the **HD Mode Option**. Please select **Set By Program** or **Custom**. You can adjust detailed options such as the size and color of the caption by selecting the **Custom**.
- The configurable items differ depending upon model.

Position Settings

You can move the position of closed captionss.

- You can control only while watching a TV broadcast.

Support

Software Update

 →  → **Support** → **Software Update**

Uses software update to check and obtain the latest version.

Auto Update

When it is set to **On**, updates are automatically made without a separate confirmation procedure except for some important updates.

Check for Updates

When checking for the latest update version, you can perform updates only if an update file of a later version is available. The TV automatically checks your software version but, if necessary, you can perform a manual check.

- The configurable items differ depending upon model.
- The latest version can be obtained via digital broadcast signals or internet connections.
- Changing the channel while downloading the software via digital broadcast signal interrupts the download process. Returning to the initial channel allows downloading to resume.
- If software is not updated, certain functions may not work properly.
- In some countries, **Auto Update** is not displayed if you are not connected to the Internet.

Privacy & Terms

 →  → **Support** → **Privacy & Terms**

User Agreements

These are the terms and conditions related to use of the Smart TV service and protection of privacy.

Legal Notice

It's a legal notice for services provided via TV.

Open Source Software Notice

You can view the instructions for each item.

Troubleshooting

Perform Check-up with the Quick Help

Perform Check-up with the **Quick Help**

When the TV malfunctions, you can get help to solve the problem.

Press  button on the remote control and select  → **Support** → **Quick Help**.

You can also long-press the number **9** button of the remote control to run the **Quick Help**.

Optimization Settings

You can automatically check the overall status of your TV and view and change the recommended setting values.

Check Items

Select the problematic item, and you can get help to solve the problem.

- **Self-Diagnosis of TV Settings** : Select the item that matches the symptom to find instructions that can help you solve the problem.

- **Check the status of TV** : You can check your TV's current status for the selected item.

LG Remote Service

You can get help for troubleshooting through the remote control.

For **LG Remote Service**, make sure to contact the LG Electronics Customer Service Center.

- This function may not be available in some countries or models.
- When there is no related content in the **Quick Help**, please refer to the **Troubleshooting** in **User Guide**.
- If you still fail to solve the problem, please contact our Customer Service Center.









Learn More About Always Ready

Learn More About **Always Ready**

 What is the difference between **Always Ready** and the power off?


- Unlike the power off, you can operate the TV with Hands-free Voice Control, connect Bluetooth, and receive responses from a reserved Home IoT Devices.
However, standby power may be consumed more than when the power is turned off.

 How can I use **Always Ready**?




- Set the **Enable the function** of  →  → **General** → **Always Ready** to **On**.
- When watching TV
Press the  button on the remote control to switch to **Always Ready** with the screen on.
Press the  button on the remote control twice to switch to **Always Ready** with the screen off.
- When the TV is **Always Ready** with the screen on
To watch TV, press the  button or the  button on the remote control.
To turn off the screen, press the  button on the remote control. **Always Ready** will remain.
- When the TV is **Always Ready** with the screen off
To watch TV, press the  button on the remote control.
To turn on the screen, press the **Wheel (OK)** button on the remote control. **Always**

Ready will remain.

 How can I continue to use **Always Ready** without a wallpaper?

- Selecting **Use Always Ready without wallpaper** of  →  → **General** → **Always Ready** enables you to immediately switch to **Always Ready** with the screen off by pressing the  button on the remote control while watching TV.

 I don't want to use **Always Ready**.

- Setting **Enable the function** of  →  → **General** → **Always Ready** to **Off** enables you to immediately turn it off by pressing the  button on the remote control while watching TV.

In this case, features such as Bluetooth connection or Hands-free Voice Control will not work.

 When the TV is **Always Ready**, the Standby Light is white. Did it turn off correctly?

- The color of Standby Light differs, depending on whether Hands-free Voice Control is activated or not. If Hands-free Voice Control is enabled, it is displayed in white; if it is not available, it is displayed in red.

For more information on Hands-free Voice Control, please refer to **How to Operate TV** → **Using TV features with Hands-free Voice Control** in **User Guide**.

Troubleshooting Power/Remote Control Issues

Troubleshooting Power/Remote Control Issues

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

 I cannot turn on the TV.





- Check that the power Standby Light on the TV is red. If the Standby Light is off, check the connection of the TV power plug, as shown below.

- If you are using a multi-outlet, check if it is working properly. To check whether a power strip is working properly, plug the TV's power plug directly to a wall outlet and observe its operation.
- Try to power on using the button on your TV set.

The power is on, but the screen comes on later.

- This is because there is a noise-removal process to eliminate any possible noise that may appear during power-on. This does not mean the product is defective.

The pointer of Magic Remote does not appear on the screen.

- Hold the remote control towards the TV and press the  and  buttons at the same time for more than 5 seconds until instructions appear. The previously registered remote control is deregistered and then registered again.
- Replace the batteries when you are prompted to do so on your TV screen. (Use alkaline batteries.)
- If  →  → **General** → **Accessibility** → **Audio Guidance** is set to **On**, the pointer of the Magic Remote does not appear. Set **Audio Guidance** to **Off**. (Some models may not be supported.)


I cannot turn the TV on with the remote control.

- Please make sure your TV power plug is correctly connected to the outlet.
- Replace the batteries in the remote control. (Use alkaline batteries.)
- Check if there is an obstacle blocking the signal in front of the TV's remote control receiver. If there is an obstacle, such as a soundbar, in front of the receiver at the bottom of the TV, it may interfere with the remote control signal reception.
- When using a set-top box remote control, if the TV integrated control function of the set-top box remote control is turned off, you cannot power on or off the TV with the set-top box remote control. Please contact your set-top box provider.

The power turns off suddenly.

- Check if **Power Off Timer** is set.
- The TV will be turned off automatically if you do not press any buttons for 4 hours even after the TV is turned on at the time set by **Reminder** or **Power On Timer**.
- There is also a chance that the internal protection circuitry has activated because the internal temperature of the product has risen unusually or excessively.

- If you are using a set-top box, the TV may be set to turn off when the set-top box is turned off. To prevent the TV from turning off when you turn off the set-top box, switch the TV power sync function off on the set-top box.

 I cannot turn on or operate the device with the TV remote control even after setting the universal remote control.

- Make sure that the device's power plug is plugged into the outlet.
- Replace the batteries in the remote control. (Use alkaline batteries.)
- Check if there are any obstacles blocking the signal in front of the connected device's remote control receiver.

Troubleshooting Screen Issues


Troubleshooting Screen Issues


If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

First of all, perform a  →  → **General** → **OLED Care** → **Device Self Care** → **Screen Self-diagnosis** to check for any abnormalities in the TV.



If you are using a set-top box, turn it off, and then turn it back on.

Make sure that the set-top box is correctly connected to your TV.



 It says there is no signal on the screen.


- Check whether the antenna or the cable connected to the external device is properly connected to the TV.
- Go to  to choose the connected input.
- Check if your external device, such as set-top box or Blu-ray player, is turned on.

 I cannot see some channels.


- Launch  →  → **General** → **Channels** → **Channel Tuning** → **Auto Tuning**.
- If you are using a set-top box, consult its supplier.

 The screen is cut off.


- Go to  →  → **Picture** and change the **Aspect Ratio**.
- When using an external device (set-top box, game console, etc.), check the screen size settings in the Settings menu of the device.

 The screen shakes after the momentary appearance of vertical/horizontal lines and net pattern.

- Connect wireless telephones, hairdryers, electrical drills, etc. to a different power outlet. The problem may be caused by high-frequency electronic devices such as another TV or strong electro-magnetic sources nearby.



 Each channel has a different image quality.


- Depending on the type of videos provided by the broadcasters, channels may have different image qualities.
- If you are using a set-top box, consult its supplier.
- Run **Screen Self-diagnosis** first. If it is normal, there may be a problem with the broadcast signal.

 There is a difference in image quality from those seen at the store.

- Depending on the type of video provided by the broadcasters, there may be a difference in image quality from those displayed at the store.
- Run **Screen Self-diagnosis** first. If it is normal, there may be a problem with the broadcast signal.

 A digitally broadcasted program stops or its screen is broken.


- This happens when a signal is weak or reception is unstable. Adjust the antenna direction or check the cable connection.
-  →  → **General** → **Channels** → **Channel Tuning** → **Manual Tuning**
If the signal strength is too low in **Manual Tuning**, contact the broadcasting station or management office to have the signals checked.
- If you are using a set-top box, consult its supplier.



 When HDMI input is in use, a vertical solid line or color blurring appears on the upper/lower/left/right edges of the screen.

-  →  → **Picture** → **Aspect Ratio** → **Just Scan**









Set **Just Scan** to **Off**.

Just Scan shows you the original image as it is. If the signal is weak, the top/bottom/left/right sides of the screen may be snowy.

 I don't see anything, or the image keeps flickering when I try to connect the HDMI cable.

- Check whether your HDMI[®] cable is compliant with the specifications. You may experience flickering or a blank screen if the HDMI[®] cable is faulty (bent, broken).
- Make sure that the cable is correctly connected to the port. Bad or loose contact may cause display problems on the screen.
- If using a UHD set-top box, adjust  →  → **General** → **Devices** → **HDMI Settings** → **HDMI Deep Color**.

 The screen looks too dim or dark.

-  →  → **Picture** → **Select Mode**
Switch **Select Mode** to your desired picture mode. (**Standard**, **Vivid**, etc.)
This applies to the current input mode only.
-  →  → **Picture** → **Advanced Settings** → **Brightness** → **Motion Eye Care**
Switch **Motion Eye Care** to **Off**. This applies to the current input mode only.
-  →  → **General** → **OLED Care** → **Device Self Care** → **Energy Saving**
Switch **Energy Saving Step** to either **Off** or **Minimum**.
-  →  → **Picture** → **Advanced Settings** → **Reduce Blue light**
Switch **Reduce Blue light** to **Off**.

 ULTRA HD video does not display.

- With some HDMI cables, signals may not be received.
- Change the settings of the connected device to the supported signal.

Troubleshooting Sound Issues

Troubleshooting Sound Issues


If you experience any of the problems below while using the product, please check the



following. There may not be a problem with the product.

First of all, perform a  →  → **General** → **OLED Care** → **Device Self Care** → **Sound Self-diagnosis** to check for any abnormalities in the TV.



If you are using a set-top box, turn it off, and then turn it back on.


Make sure that the set-top box is correctly connected to your TV.



 The screen is fine, but it does not play any sound.

- Try another channel.
- If you use a set-top box, there will be no sound if you have set the volume of the set-top box or your TV to 0 or enabled Mute. Set the volume to an appropriate level.
-  →  → **Sound** → **Sound Out**
Set the **Sound Out** to **Optical Out Device + TV Speaker** or **Use TV Speaker**, and then check it once again. If you can hear the sound without any problem, check the connection with external speakers such as sound bar and the settings of the external speakers.

 There is no sound coming from one of the speakers.

-  →  → **Sound** → **Advanced Settings** → **Balance**
Adjust the balance as necessary with the Navigation button in **Balance**.
- When you are connecting to the **AV IN**, check if the audio left/right (white/red) cables are correctly connected. (**AV IN** port is available in certain models only.)

 The TV sound is not synchronized with the picture, or the sound sometimes breaks up.


- If this happens on only some of the channels, it may be caused by the broadcasting company's transmission signal. Please have your broadcasting services provider (wired/cable) diagnose the problem.
- If all channels are out of sync, go to  →  → **Sound** → **Advanced Settings** → **Match Screen and Sound** and adjust the sync.
- If you are using a set-top box, consult its supplier.

 The volume changes when I change the channel.

- The volume of different broadcasting stations' transmission output may vary.
-  →  → **Sound** → **Advanced Settings** → **Automatic Volume Adjustment**

Set **Automatic Volume Adjustment** to **On**.

- If you are using a set-top box, consult its supplier.



 The sound does not work or only the background music is played in some programs.

(Programs produced for export by broadcasting companies)

- Set your language preference in **Audio Language**.

Troubleshooting PC Connection Issues


Troubleshooting PC Connection Issues



Run **Home Dashboard** by pressing the  button on the remote control. Select  **Edit Inputs** in the upper right corner. In the Edit mode, set the icon of the HDMI terminal connected to the PC to **PC** to apply the video and aspect ratio settings that are aligned with the PC.

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

 The screen remains blank after it is connected to a PC.

- Check that the PC is properly connected to the TV.
- Turn the TV off and back on using the remote control.
- Restart the PC with the TV on.
- Make sure that the output resolution set on the PC is set to the HDMI-PC supported resolution of the TV.
- To use dual monitors, check that the PC or notebook supports dual-monitor mode.
- Reconnect the high speed HDMI cable.
- If you have connected the RGB output port of your PC to the **HDMI IN** of your TV, you need an RGB to HDMI gender.
You will not see anything on the screen if you use an HDMI to RGB gender.

 The screen is not fully shown or is lopsided when connected to a PC.

- Set the PC's resolution to one supported by the TV. For more information, see **Being Aware of the Information → Supported Resolution : HDMI-PC** in **User Guide**.
- Set the connected HDMI device's name to PC.
Run **Home Dashboard** by pressing the  button on the remote control. Select  → **Edit Inputs** in the upper right corner. Change the icon of the HDMI port connected to **Inputs** to PC and select **Save**.

 The sound does not play when the PC is connected with an HDMI cable.

- Set LGTV as the default device in Sound → Playback in Control Panel of PC settings.
- Consult your manufacturer on whether your graphics card supports HDMI audio output.

Troubleshooting Movie Playback Issues

Troubleshooting Movie Playback Issues

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.


More information about supported files can be found in **Being Aware of the Information → Supported Video File Formats** in the **User Guide**.

 I cannot find a file in the **Media Player**.

- Check whether the files saved on your USB storage device can be read by the PC.
- Check that the file extension is supported.
- Change the filter to **All**.



 I see a message that says the file is not supported.


- Check that the file plays without any problems on the video player on a PC. (Check for file damage.)
- Check that the file extension is supported.
- Check that the resolution is supported.
- Check that the video codec is supported.
- Check that the frame rate is supported.

 I get a message saying “This audio is not supported” or the video is playing normally but the audio is not.

- Check that the file plays without any problems on the video player on a PC. (Check for file damage.)
- Check that the file extension is supported.
- Check that the audio codec is supported.
- Check that the bit rate is supported.
- Check that the sample frequency is supported.
- Check that the number of audio channels is supported.

 I cannot see the subtitles.

- Check that the file plays without any problems on the video player on a PC. (Check for file damage.)
- Check that the video and subtitle files have the same name.
- Also check that both the video file and the subtitle file are in the same folder.
- Check that the subtitle file format is supported.
- Check that the language is supported.
(You can check the language of the subtitle file by opening the file in the Notepad.)
- If subtitles encoding is incorrectly set, subtitles may not be displayed properly.
Press the  button on the remote control during video playback actions. Select  and change the **Code Page** value.
- If you play a video file stored on another device by using the content sharing feature, subtitles may not be available depending on the program you use.
- Subtitles are not supported if you are playing video through an NAS unit. Consult your NAS manufacturer.

 My USB storage device is not recognized when connected.

- Check whether it is a USB storage device supported by the TV.
For more information, see **Connecting External Devices** → **Connecting USB** in **User Guide**.

Troubleshooting Network Connection Issues

Troubleshooting Network Connection Issues

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

Before connecting to a wireless network, check the name and password of the Wi-Fi device to connect.

You can check the network connection status as shown below.

-  →  → **General** → **Network** → **Wired Connection (Ethernet)**
-  →  → **General** → **Network** → **Wi-Fi Connection** → **Other Network** → **Advanced Wi-Fi Settings**

- Some models may support the **Wi-Fi Connection** function only.



When X appears next to TV

- Check the TV or the AP (Router).
- Check the connection status of the TV, AP (Router) and Cable Modem.
- Power off and power on in the following order;
 1. Turn your cable modem off and back on, and wait for the device to reset.
 2. Turn the wired/wireless router off and back on, and wait for the device to reset.
 3. Turn the TV off and on.
- If you want to establish a wired LAN connection check whether an IP address can be obtained from your router properly. If you are setting up your network manually check whether all settings are correct.
- If you want to establish a wireless connection check the following points as well.
 - ① Set your router's SSID (network name) or wireless channel.
 - ② Set your router's security key.If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.
- If you are using a static IP, enter the IP directly.



When X appears next to Gateway

- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.

- Initialize (Reset) on the AP (Router) or Cable Modem.
- Check the AP (Router) manufacturer's website to make sure your router has the latest firmware version installed.
- If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.




When X appears next to DNS

- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.
- Initialize (Reset) on the AP (Router) or Cable Modem.
- Check that the MAC address of the TV/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the pane of the network status window should be registered with your Internet service provider.)
- If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.

Troubleshooting LG Account Issues

Troubleshooting LG Account Issues

 I've signed up for the membership on TV. Do I have to sign up again on the website (www.lgappstv.com)?

- You can use the website with the membership information that you used when signing up on TV.




 I forgot my password. What should I do?

- On the TV's login screen, select the **FORGOT PASSWORD?** button to go to the find password page. Enter your email address on the find password page, and we'll send you a link to reset your password.
- You can also reset your password in LG Account → Reset Password on the website

(www.lgappstv.com).



I wish to delete the account saved on the TV.

- When you log in to your LG account on the TV, the account will be saved to the TV. You can delete accounts stored on the TV at any time, as follows.

- 01 Select  →  → **General** → **System** → **LG Account**.
- 02 Select  → **Edit Account List** at the top of the screen.
- 03 Pressing **DELETE** will delete the account.
It will not delete the login history or close the account.



I wish to delete the usage history on the TV.

- When you use the TV after logging in to your LG account, the usage history will be saved and you can delete it at any time.

- 01 Select  →  → **General** → **System** → **LG Account**.
- 02 Select **Account Management** for the account you wish to set up.
- 03 Select **Usage Data Management**.
- 04 Pressing **DELETE** will delete the usage history.

I wish to close my account on the TV.

- You can also close your LG account on the TV as follows.

- 01 Select  →  → **General** → **System** → **LG Account**.
- 02 Select **Account Management** for the account you wish to set up.
- 03 Select **Terminate My Account**.
- 04 Enter your password and press **OK** to close your account.




- In some countries, access to the website (www.lgappstv.com) may be restricted.

Troubleshooting Contents Issues

Troubleshooting Contents Issues

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

 I cannot see any content in HOME.


- You may not be able to see the content if the service country setting has been changed. Change to the service country you are going to use the service from in  →  → **General** → **System** → **Location** → **LG Services Country**.
(Some models may not be supported.)
- If you cannot see some apps, it may be because you deleted them. Please reinstall the appropriate app.
- If the app is deleted, you can download the app at **Apps** and reinstall it. Go to  → **Apps** to find and install the app you want.
- The type of supported content differs by country.
- The content offerings are subject to change or interruption by the service provider.

Troubleshooting Internet Browser Issues

Troubleshooting Internet Browser Issues

If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.


 Some parts of a particular website are not visible when I am using the Internet.

- The **Web Browser** supports only HTML5 media, it does not support Flash Plug-in.
- The **Web Browser** does not support plug-in installation.
- On the **Web Browser**, it may not be possible to play media files in formats other than : JPEG/PNG/GIF
- You cannot save attachments or images.
- If the **Use Block Ads** feature is turned on, the area on the website that appears to show an ad will appear blank. If some content on the website is hidden and invisible, try setting  → **Settings** → **Use Block Ads** to **Off** in **Web Browser**. **Sponsored AD** on the new tab page will be displayed even if you set the **Use Block Ads** feature to **Off**.

 The Internet browser automatically shuts down when I visit a website.

- The Internet browser may be forced to shut down if the available memory size is not sufficient to accommodate the image information for a website. Check if you can access the site with the issue on your PC.

 When watching a video in **Web Browser**, the video is forced off.

- You may be able to fix this by setting  → **Settings** → **Adaptive Streaming using JavaScript** to **Off** in **Web Browser**. The setting is not applied to tabs that were open before the change, and is only applied to tabs opened after the change.

Being Aware of the Information

Supported Photo File Formats

Supported Photo File Formats

File Format	Format	Resolution
jpeg, jpg, jpe	JPEG	Minimum : 64 × 64 Maximum Normal Type : 15360 (W) × 8640 (H) Progressive Type : 1920 (W) × 1440 (H)
png	PNG	Minimum : 64 × 64 Maximum : 5760 (W) × 5760 (H)
bmp	BMP	Minimum : 64 × 64 Maximum : 1920 (W) × 1080 (H)

avif, heic, heif	AVIF/HEIF	Minimum : 64 × 64 Maximum : 4800 (W) × 3600 (H) 9600 (W) × 7200 (H) (8K models only)
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Supported Video File Formats

Supported Video File Formats

Maximum Data Transfer Rate

- Full HD video
H.264 1920 × 1080@60P BP/MP/HP@L4.2 Maximum 40Mbps
HEVC 1920 × 1080@60P Main/Main10@L4.1 Maximum 40Mbps
- ULTRA HD video (ULTRA HD models only)
H.264 3840 × 2160@30P BP/MP/HP@L5.1 Maximum 50Mbps
HEVC 3840 × 2160@60P Main/Main10@L5.1 Maximum 60Mbps
- HFR video (HFR support models only)
HEVC 3840 × 2160@120P Main/Main10@L5.2 Maximum 60Mbps
- Dolby Vision video (Dolby Vision support models only)
HEVC 3840 × 2160@60P Main/Main10@L5.1 Maximum 50Mbps
HEVC 7680 × 4320@60P Main/Main10@L6.1 Maximum 100Mbps (8K models only)
- 8K video (8K models only)
AV1 7680 × 4320@60P
HEVC 7680 × 4320@60P Main/Main10@L6.1 Maximum 100Mbps
VVC 7680 × 4320@60P

Supported External Subtitles

smi, srt, sub (MicroDVD, SubViewer 1.0/2.0), ass, ssa, txt (TMPlayer), psb (PowerDivX), dcs (DLP Cinema)

Supported Embedded Subtitles Format

Matroska (mkv) : Sub Station Alpha (SSA), Advanced Sub Station Alpha (ASS), SRT
MP4 : Timed Text

Supported Video Codecs

Extension	Codec	
asf wmv	Video	VC-1 Advanced Profile (except for WMVA), VC-1 Simple and Main Profiles
	Audio	WMA Standard (except for WMA v1/WMA Speech)
avi	Video	Xvid (GMC is not supported), H.264/AVC, Motion Jpeg, MPEG-4
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, LPCM, ADPCM
mp4 m4v mov	Video	H.264/AVC, MPEG-4, HEVC, AV1, VVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3), Dolby AC-4, MPEG-H 3D Audio
3gp 3g2	Video	H.264/AVC, MPEG-4
	Audio	AAC, AMR-NB, AMR-WB
mkv	Video	MPEG-2, MPEG-4, H.264/AVC, VP8, VP9, HEVC, AV1
	Audio	Dolby Digital, Dolby Digital Plus, AAC, PCM, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
ts trp tp mts	Video	H.264/AVC, MPEG-2, HEVC
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM, Dolby AC-4
mpg mpeg dat	Video	MPEG-1, MPEG-2

	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

- Dolby AC-4 , MPEG-H 3D Audio , VVC : Some models may not be supported.

Cautions for Video Playback

- Some user-created subtitles may not work properly.
- A video file and its subtitle file must be in the same folder. For subtitles to be displayed properly, make sure that the video file and the subtitle file have the same name.
- Subtitles on a Network Attached Storage (NAS) device may not be supported depending on the manufacturer and model.
- Streams that include Global Motion Compensation (GMC) and Quarterpel Motion Estimation (Qpel) are not supported.
- ULTRA HD video (ULTRA HD models only) : 3840 × 2160, 4096 × 2160
Some HEVC-encoded ULTRA HD videos other than the content officially provided by LG Electronics may not be played.
Some codecs can be supported after a software upgrade.

Extension	Codec
mkv/mp4/ts	Video H.264/AVC, HEVC
	Audio Dolby Digital, Dolby Digital Plus, AAC

- Only Window Media Audio V7 and later are supported.
- The AAC main profile is not supported.
- Video files created by some encoders may not be played.
- Video files in a different format than specified may not be played properly.
- Video files stored on a USB storage device that does not support High Speed may not be played properly.

Supported Music File Formats

Supported Music File Formats

File Format	Info	
mp3	Bit rate	32 kbps ~ 320 kbps
	Sample freq.	16 kHz ~ 48 kHz
	Support	MPEG-1, MPEG-2
	Channels	mono, stereo
wav	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	PCM
	Channels	mono, stereo
ogg	Bit rate	64 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	Vorbis
	Channels	mono, stereo
wma	Bit rate	128 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz

	Support	WMA
	Channels	up to 6 ch
flac	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	FLAC
	Channels	mono, stereo

■ The number of supported channels may vary depending upon the sample frequency.

Supported Resolution : HDMI-DTV

HDMI-DTV Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 × 480p	31.46	59.94
	31.5	60
720 × 480p	31.46	59.94
	31.5	60
720 × 576p	31.25	50
1280 × 720p	37.5	50

	44.95	59.94
	45	60
1920 × 1080i	28.12	50
	33.71	59.94
	33.75	60
1920 × 1080p	26.97	23.97
	27	24
	28.12	25
	33.71	29.97
	33.75	30
	56.25	50
	67.43	59.94
	67.5	60
1920 × 1080p (ULTRA HD, 8K models only)	112.5	100
	134.86	119.88
	135	120
2560 × 1080p ^{4) 5)} (ULTRA HD, 8K models only)	66	60

	131.74	120
3840 × 2160p (ULTRA HD, 8K models only)	53.94	23.97
	54	24
	56.25	25
	67.43	29.97
	67.5	30
	112.5	50
	134.86	59.94
	135	60
3840 × 2160p ^{1) 2) 3)} (ULTRA HD, 8K models only)	225	100
	269.73	119.88
	270	120
4096 × 2160p (ULTRA HD, 8K models only)	53.94	23.97
	54	24
	56.25	25
	67.43	29.97
	67.5	30

	112.5	50
	134.86	59.94
	135	60
4096 × 2160p ^{1) 2) 3)} (ULTRA HD, 8K models only)	225	100
	269.73	119.88
	270	120
7680 × 4320p ²⁾ (8K models only)	107.89	23.97
	108	24
	110	25
	131.87	29.97
	132	30
	220	50
	263.74	59.94
	264	60

1) Supported when **HDMI Deep Color** is set to **4K**.

2) Supported when **HDMI Deep Color** is set to **8K**.

3) (ULTRA HD models only) Only some HDMI input ports are supported.

4) Supported when **Wide Aspect Ratio** is set to **21:9**.

5) Supported when **Wide Aspect Ratio** is set to **32:9**.

Supported Resolution : HDMI-PC

HDMI-PC Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 × 350	31.46	70.09
720 × 400	31.46	70.08
640 × 480	31.46	59.94
800 × 600	37.87	60.31
1024 × 768	48.36	60
1152 × 864	54.34	60.05
1360 × 768 ³⁾	47.71	60.01
1280 × 1024	63.98	60.02
1920 × 1080	67.5	60
1920 × 1080 (ULTRA HD, 8K models only)	134.86	119.88
	135	120
2560 × 1080 ^{4) 5)} (ULTRA HD, 8K models only)	66	60
	131.74	120

2560 × 1440 ¹⁾ (ULTRA HD, 8K models only)	182.99	119.99
3840 × 1080 ⁵⁾ (ULTRA HD, 8K models only)	66.62	60
	137.25	120
3840 × 1600 ⁴⁾ (ULTRA HD, 8K models only)	99.41	60
3840 × 2160 (ULTRA HD, 8K models only)	53.94	23.97
	54	24
	56.25	25
	67.43	29.97
	67.5	30
	112.5	50
	134.86	59.94
	135	60
3840 × 2160 ¹⁾ (ULTRA HD, 8K models only)	225	100
	269.73	119.88
	270	120
4096 × 2160 (ULTRA HD, 8K models only)	53.94	23.97

	54	24
	56.25	25
	67.43	29.97
	67.5	30
	112.5	50
	134.86	59.94
	135	60
4096 × 2160 ¹⁾ (ULTRA HD, 8K models only)	225	100
	269.73	119.88
	270	120
7680 × 4320 ²⁾ (8K models only)	107.89	23.97
	108	24
	110	25
	131.87	29.97
	132	30
	220	50
	263.74	59.94

-
- 1) Supported when **HDMI Deep Color** is set to **4K**.
 - 2) Supported when **HDMI Deep Color** is set to **8K**.
 - 3) Supported when **HDMI Deep Color** is set to **Off**.
 - 4) Supported when **Wide Aspect Ratio** is set to **21:9**.
 - 5) Supported when **Wide Aspect Ratio** is set to **32:9**.
-

- Supported HDMI-PC port may differ by model. Refer to the manual that is provided with the product.

License Information

License Information

Supported licenses may differ by model.

Dolby

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Quickset

QUICKSET®

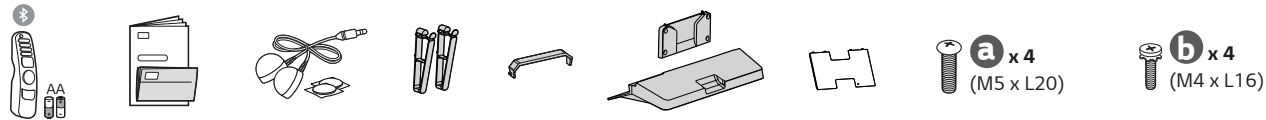
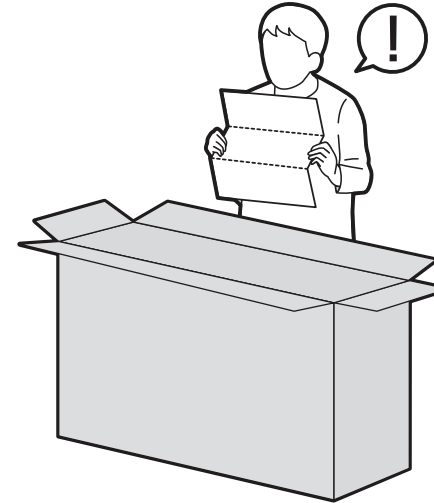
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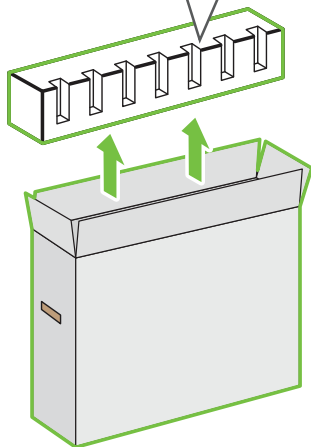


Printed in Korea

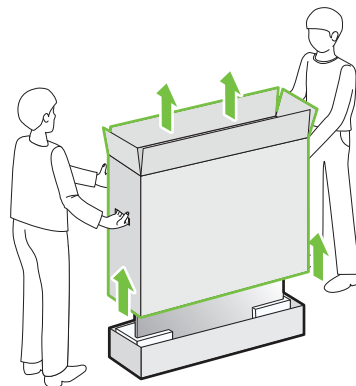
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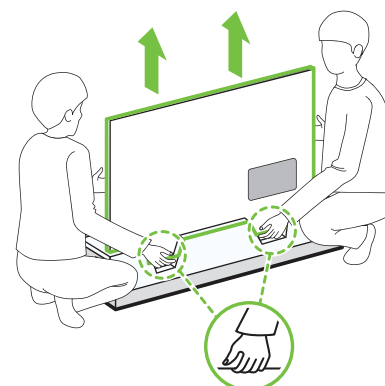
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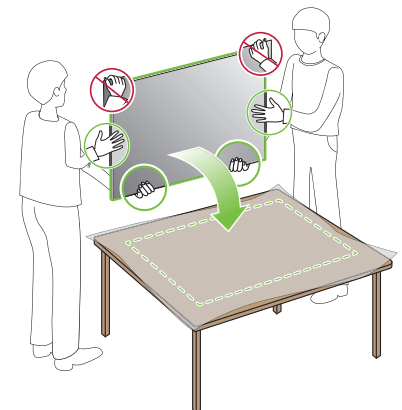
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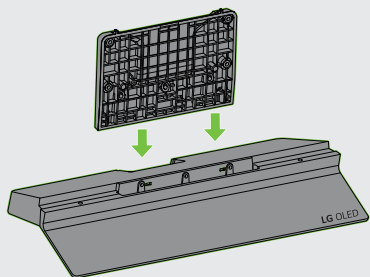
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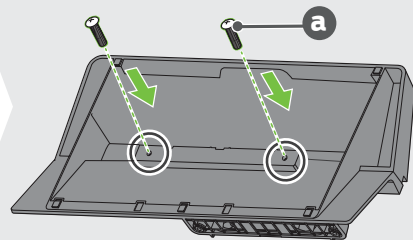
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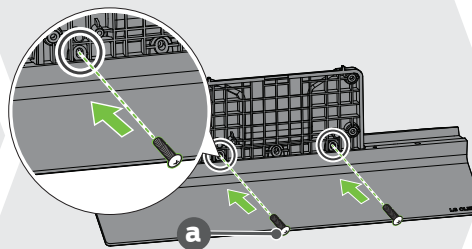
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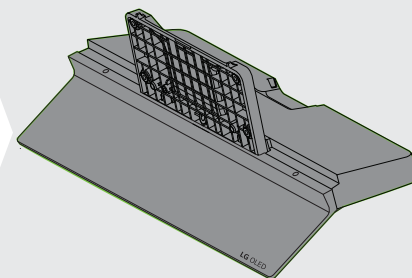
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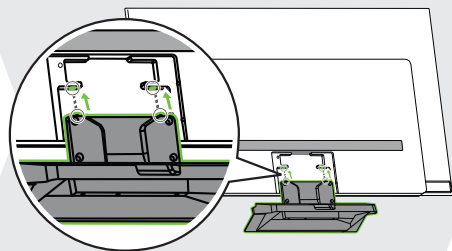
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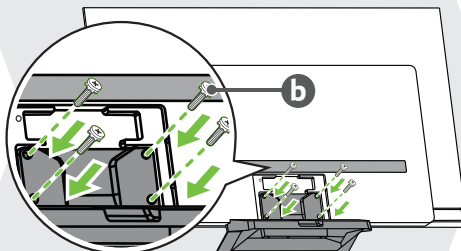
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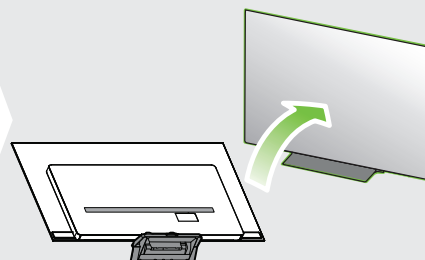
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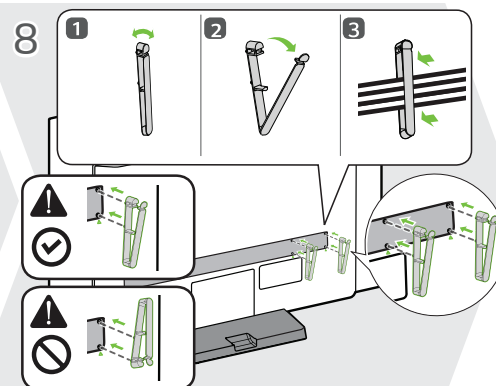
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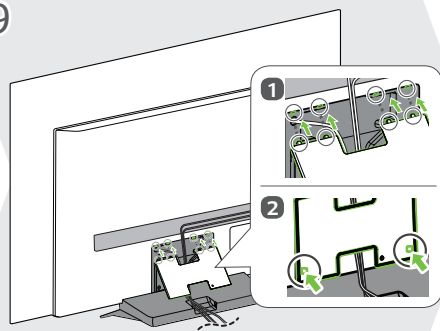
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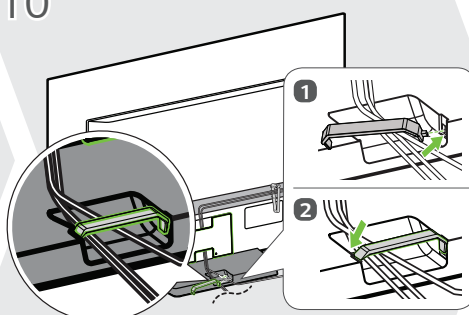
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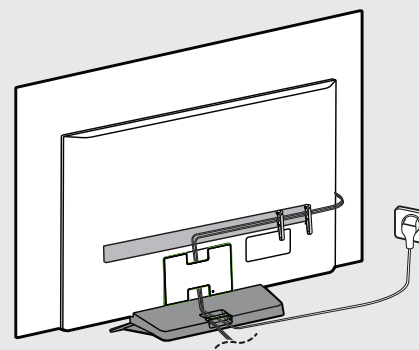
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10



11



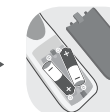
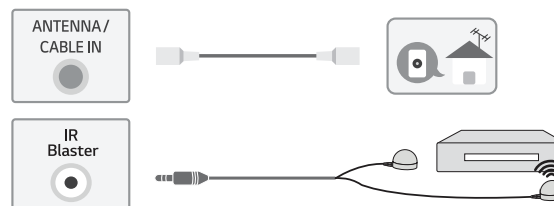
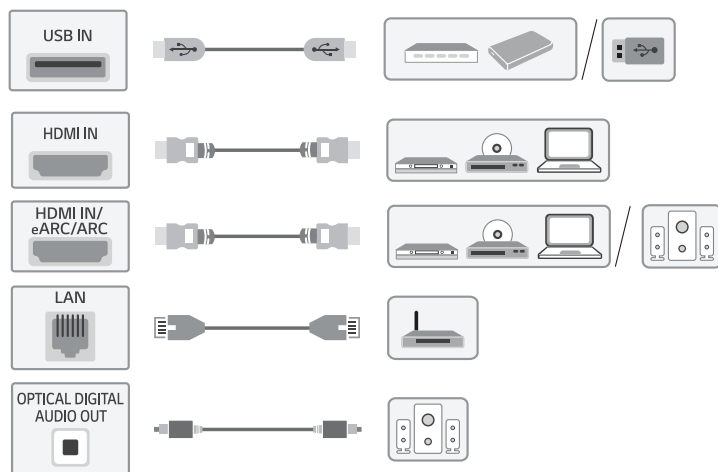


www.lg.com/us/support

ENGLISH
Easy TV Connect Guide
(Animation)

ESPAÑOL
Guía Rápida de Conexión
del televisor
(Sólo en Inglés)

FRANÇAIS
Guide simplifié pour la con-
nexion du téléviseur (Offert
en anglais seulement)



5s



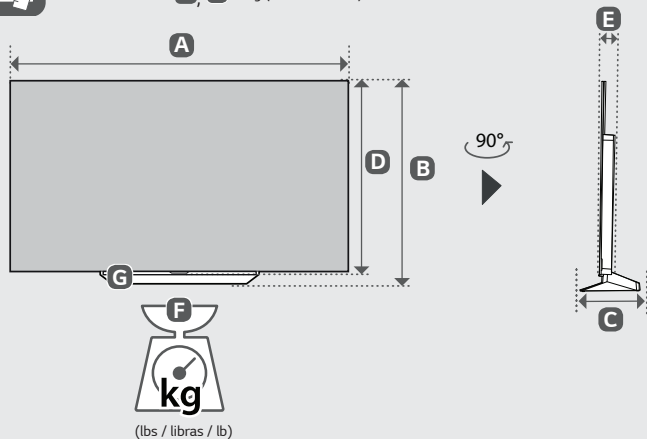
1s





A, B, C, D, E : mm (inches / pulgadas / po)

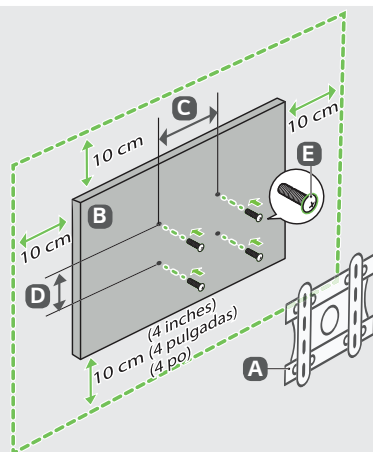
F, G : kg (lbs / libras / lb)



MODELS MODELOS MODÈLES	A		B		C		D		E		F		F-G		Power consumption
															Consumo de potencia
															Consommation électrique
OLED55C2AUA OLED55C2PUA	1,222 (48.1)	1 222 (48,1)	757 (29.8)	757 (29,8)	230 (9.0)	230 (9,0)	703 (27.6)	703 (27,6)	45.1 (1.7)	45,1 (1,7)	14.6 (32.1)	14,6 (32,1)	12.7 (27.9)	12,7 (27,9)	363 W
OLED65C2AUA OLED65C2PUA	1,441 (56.7)	1 441 (56,7)	880 (34.6)	880 (34,6)	230 (9.0)	230 (9,0)	826 (32.5)	826 (32,5)	45.1 (1.7)	45,1 (1,7)	16.7 (36.8)	16,7 (36,8)	14.8 (32.6)	14,8 (32,6)	482 W
OLED77C2AUA OLED77C2PUA	1,711 (67.3)	1 711 (67,3)	1,035 (40.7)	1 035 (40,7)	267 (10.5)	267 (10,5)	982 (38.6)	982 (38,6)	47.1 (1.8)	47,1 (1,8)	24.4 (53.7)	24,4 (53,7)	20.8 (45.8)	20,8 (45,8)	686 W
Power requirement / Alimentación requerida / Alimentation										AC 120 V ~ 50 / 60 Hz					



C, D : mm (inches / pulgadas / po)



A	B	C x D (mm)	E
OLW480B	OLED55/65/77C2*	300 (11.8) x 200 (7.8)	M6
		300 (11,8) x 200 (7,8)	



ENGLISH Read **Safety and Reference**.

ESPAÑOL Leer **Seguridad y Consultas**.

FRANÇAIS Lisez **Sécurité et références**.

ENGLISH

Easy Setup Guide

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

ESPAÑOL

Guía Rápida de Configuración

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

FRANÇAIS

Guide de configuration rapide

Avant d'utiliser l'appareil, veuillez lire attentivement ce manuel et le conserver pour pouvoir vous y reporter ultérieurement.

⊕ : Depending upon model / Según el modelo / Selon le modèle



ENGLISH

LG OLED TV

OWNER'S MANUAL

Safety and Reference

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

OLED48A2AUA	OLED55B2PUA	OLED42C2AUA
OLED48A2PUA	OLED65B2PUA	OLED42C2PUA
OLED55A2AUA	OLED77B2PUA	OLED48C2AUA
OLED55A2PUA		OLED48C2PUA
OLED65A2AUA		OLED55C2AUA
OLED65A2PUA		OLED55C2PUA
OLED77A2AUA		OLED65C2AUA
OLED77A2PUA		OLED65C2PUA
		OLED77C2AUA
		OLED77C2PUA
		OLED83C2AUA
		OLED83C2PUA

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

Model _____

Serial No. _____



* M F L 7 1 8 5 6 1 3 2 2 0 1 R E V 0 0 *

www.lg.com

Printed in Korea

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Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

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

Important Safety Instruction

- 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.

By using this product, you agree that all disputes between you and LG arising out of or relating in any way to this product (including but not limited to warranty disputes) shall be resolved exclusively through binding arbitration on an individual basis. The terms of the arbitration agreement (including details on the procedure for resolving disputes) is available at www.lg.com/us/arbitration (USA) or www.lg.com/ca_en/arbitration (Canada).

Before reading this manual

- Read this manual thoroughly before operating your TV, and keep it for future reference.
- On the website you can download the manual including installation, using, troubleshooting, specifications, license etc and view its contents on your PC or mobile device.
- **User Guide :** For more information about this TV, read the USER GUIDE embedded in the product. (Depending upon model)
 - To open the USER GUIDE (⊗) → (⋮) → [Support] → [User Guide]

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.
- A cable to connect antennas and external devices must be purchased separately.

✓ Note

- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- The items supplied with your product may vary depending upon the model.
- Image shown may differ from your TV.

Warning! Safety instructions



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 symbol 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 symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the device.

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

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

- **Do not place the TV and/or remote control in the following environments:**

- Keep the product away from direct sunlight.
- An area with high humidity such as a bathroom.
- Near any heat source such as stoves and other devices that produce heat.
- Near kitchen counters or humidifiers where they can easily be exposed to steam or oil.
- An area exposed to rain or wind.
- 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).
- Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
- Do not install in excessively dusty places.

Otherwise, this may result in fire, electric shock, combustion/explosion, malfunction or product deformation.

- **Ventilation**

- Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
- Do not install the product on a carpet or cushion.
- Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.
- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.

- Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.

- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.

- **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.
- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.

- **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

- Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.
- Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.
- Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
- Do not touch the end of the power cord while it is plugged in. You may be electrocuted.

- **If any of the following occur, unplug the product immediately and contact your local customer service.**

- The product has been damaged.
- If water or another substance enters the product (like an AC adapter, power cord, or TV).
- If you smell smoke or other odors coming from the TV
- When lightning storms or when unused for long periods of time.

Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.

- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
- Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.
- Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.
- To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.

- **Batteries**

- Store the accessories (battery, etc.) in a safe location out of the reach of children.
- Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
- Caution: Risk of fire or explosion if the battery is replaced by an incorrect type.

- **Moving**

- When 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. Otherwise, this may result in product damage, fire hazard or injury.

- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- 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. It may cause damage to screen.

- **Cleaning**

- When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

Installation

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, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.



- 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.
- 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.



- 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.)
- Do not fasten the screws with excessive force otherwise they may strip and become loose.

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.
 - 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 to the Wall

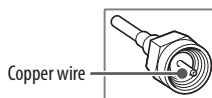
An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. 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.



- 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.
- Please use the accessory cable holder when hanging on the wall. (Only OLED48/83C2*)

Antenna/Cable

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



- Make sure not to bend the copper wire of the RF cable.
- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.
- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital
- This TV cannot receive Ultra HD (3840 x 2160 pixels) broadcasts directly because the related standards have not been confirmed (Depending upon country).
- Use the AV cover for aesthetic purposes. Connecting too many cables may cause lifting problems. In such a case, remove the AV cover before use.

Starting TV

Turning on the TV

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

<A type>



Power On (Press)
Power Off¹⁾ (Press and Hold)
Menu Control (Press²⁾)
Menu Selection (Press and Hold³⁾)

- 1) All running apps will close.
- 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.

<B type>



Power On (Press)
Power Off¹⁾ (Press and hold)



Volume Control



Channels Control

- 1) All running apps will close.

✔ Note

- When the TV is turned on for the first time after being shipped from the factory, initialization of the TV may take approximately one minute..



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]
- 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 feet) or less)
 - Ultra High Speed HDMI®/™ cable

USB

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.

✔ Note

- 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.

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) (Depending upon models)

- 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

Supported 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 connections shown may differ slightly from illustrations in a manual.
- 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.
- When connecting to a wired LAN, use a CAT7 cable with high-speed Internet transmission.
- The TV may be capable of operating without a set-top-box from a multichannel video programming distributor (MVPD).

Remote RS-232C setup

To obtain the RS-232C external control setup information, please visit www.lg.com. Download and read the manual, (Depending upon model).



- Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.
- When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage to the product.

Specifications

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

Estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

- 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 upon the model or country, the typical power consumption may not be on label.

(Depending upon country)

Broadcasting Specifications	
Television system	ATSC / NTSC-M, 64 & 256 QAM
Channel coverage (Band)	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 %

Product Information

(Only OLED42/48/55/65/77/83C2AUA)

Wireless module(LGSBWAX12)Specifications

Wireless LAN (IEEE 802.11a/b/g/n/ac/ax)

Frequency range	Output Power (Max.)
2,400 to 2,472 MHz	17 dBm
5,150 to 5,725 MHz	15 dBm
5,725 to 5,850 MHz	15 dBm
5,945 to 7,125 MHz	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 (7.8 inches) between the device and the body.

FCC ID: BEJLGSBWAX12 / IC: 2703H-LGSBWAX12

(Except for OLED42/48/55/65/77/83C2AUA)

Wireless module(LGSBWAC95)Specifications

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	18 dBm
5,725 to 5,850 MHz	18 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 (7.8 inches) between the device and the body.

FCC ID: BEJLGSBWAC95 / IC: 2703H-LGSBWAC95

Open Source Software Notice Information

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents please visit <https://opensource.lge.com>.

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 to anyone in receipt of this information for a period of three years after our last shipment of this product.

Licenses

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

QUICK SET®
(Magic Remote supported models only)

HEC Advance™
Covered by patents at patentlist.accessadvance.com

Troubleshooting

Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • 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 fresh ones.
No image display and no sound is produced.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.
Abnormal Display	<ul style="list-style-type: none"> • If the TV feels cold to the touch, there may be a small flicker when it is turned on. This is normal; there is nothing wrong with TV. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV's performance. Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen. • This panel is an advanced product that contains millions of pixels. In a very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.
Generated Sound	<ul style="list-style-type: none"> • 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.



- 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.

Precautions for Protecting the OLED TV Screen

Unlike regular LED/LCDs, OLED TVs produce images that emit light for each pixel, achieving a perfect black color and delivering clear images without blurring.

Due to the nature of the organic materials used to achieve high-resolution image quality, OLED displays generally experience image retention on the screen, which can be a persistent phenomenon. This phenomenon is observed in all OLED panels, and although recommended picture modes can minimize image retention, current technology cannot completely prevent this from occurring.



Displaying the same image for a long time or repeatedly displaying the same image can cause image retention on the screen, which is a common phenomenon in OLED panel products due to the nature of the product. This product has a built-in screen protection feature. Avoid displaying images that are likely to cause image retention, and follow the recommendations.

Images that are likely to cause image retention





- Images with black areas on the top and bottom and/or the left and right sides of the screen.
- Images whose aspect ratio is 4:3 or 21:9.
- Images that are fixed for a long time, such as channel number, station logo, game console icon, set-top box menu, etc.
- Other fixed screen images or repeatedly displayed images.



Running [Pixel Cleaning] to Protect the OLED TV Screen

The OLED TV is equipped with a pixel cleaning feature to check the status of the screen by itself and prevent image retention. This feature is automatically calculates the optimal execution time based on the accumulated viewing time and is automatically executed when the TV is turned off. While this feature is running, horizontal lines may appear at the top and bottom of the screen. The pixel cleaning feature works when the product is connected to the power cord and main power.

- To run this function manually, press the  button on the remote control, go to  → [General] → [OLED Care] → [OLED Panel Care] and press [Pixel Cleaning].

Recommendations for Minimizing Image Retention

When watching the TV for a long time, press the  button on the remote control, go to  → [Picture] → [Select Mode] and set the mode to [APS], go to [Advanced Settings] → [Brightness] and set [OLED Pixel Brightness] to a lower level. In addition, press the  button on the remote control, go to  → [General] → [OLED Care] → [OLED Panel Care] and set the [Adjust Logo Brightness] value to [High].

When showing images with black bars at the top/bottom/left/right side of the screen, press the  button on the remote control, press  and go to [Picture] → [Aspect Ratio] → [User Selection] → [Vertical Zoom] or [4-Way Zoom] to remove the black bars.

Turn off the menus for setting up devices such as set-top boxes so that they are not displayed on the screen for a long time.

Note

- When the screen is showing one fixed image for a long time, the screen brightness will be automatically reduced and then restored once the screen content changes. This is a normal function to minimise image retention.

Regulatory

FCC NOTICE

(For USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. 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. and For indoor use only, use outdoors or in other modes not covered by this manual may violate the FCC regulation and violate the user authority to use the product.

FCC Radio Frequency Interference Requirements (for UNII devices)

(For USA)

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 USA)

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

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

Industry Canada Statement

(For Canada)

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

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (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.

RSS-247 Requirement

(For Canada)

(For product having the wireless function using 5 GHz frequency bands)

- (1) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- (3) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- (4) (For devices operating in the band 5250-5350 MHz having an e.i.r.p. greater than 200 mW) Antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 of RSS-247 shall be clearly indicated.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

NOTE TO CABLE/TV INSTALLER

(For USA and Canada)

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




WARNING! (STABILITY HAZARD)

A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.
- ALWAYS use furniture that can safely support the television set.
- ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
- ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
- NEVER place a television set in an unstable location.
- NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Symbols

	Refers to alternating current (AC).		Refers to stand-by.
	Refers to direct current (DC).		Refers to "ON" (power).
	Refers to class II equipment.		Refers to dangerous voltage.

LG Take-back & Recycling Policy

(For USA)

LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates products' recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG Electronics seeks to contribute to conserving natural resources and protecting the environment. For more information, please visit our global site at <https://www.lg.com/recycling>

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER TECHNOLOGY INDUSTRY CARES

Manufacturers, retailers and the rest of the consumer technology industry are committed to making products 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

- **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** follow the manufacturer's recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **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 a Nationally Recognized Testing Laboratory (NRTL).
- **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. Use proper anchoring systems for different wall or ceiling types (e.g. wood, concrete, metal, etc.). 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

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



OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

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.

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

* 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.

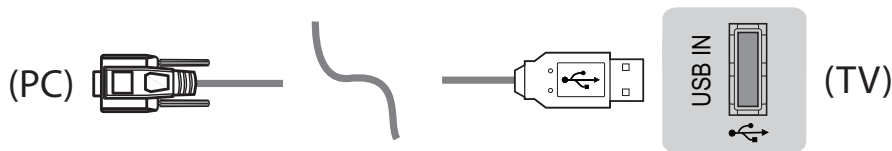
Connect the USB to Serial(RS-232C) converter/RS-232C(Serial) input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

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(RS-232C) converter with USB Cable

USB Type



- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial(RS-232C) 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(Serial) With RS-232C(Serial) Cable

DE9 (D-Sub 9pin) Type

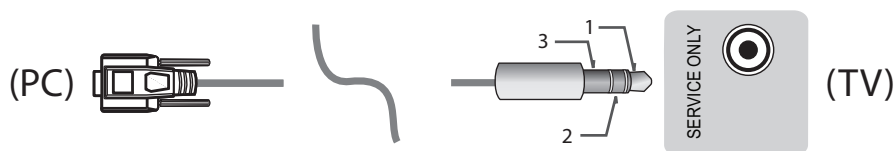
- You need to purchase the RS-232C (DE9, D-Sub 9pin female-to-female type) to RS-232C(Serial) cable required for the connection between the PC and the TV, which is specified in the manual.



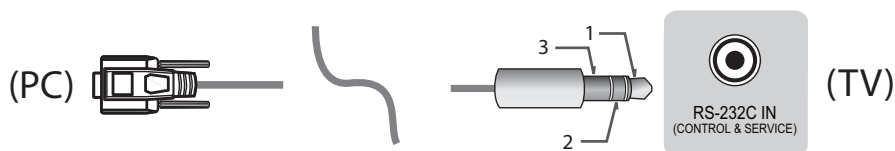
The connection interface may differ from your TV.

Phone jack Type

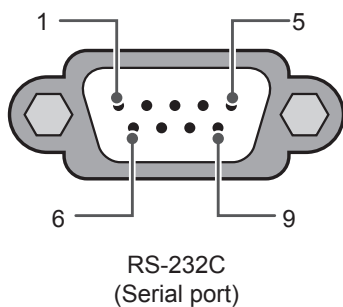
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- * For other models, connect to the USB port.
- * The connection interface may differ from your TV.



- or

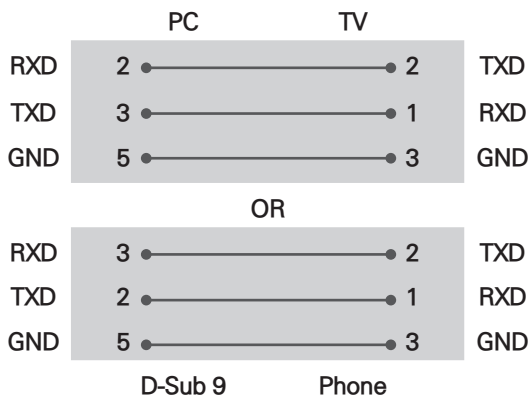


Customer Computer



RS-232C configurations

3-Wire Configurations(Not standard)



Set ID

For Set ID number, see "Real Data Mapping" on p.6

- Press **SETTINGS** to access the main menus.
- Press the Navigation buttons to scroll to (***General** → **About this TV or OPTION**) and press **OK**.
- Press the Navigation buttons to scroll to **SET ID** and press **OK**.
- Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.
- 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)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power*	k	a	00 to 01	15. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	(p.7)	16. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	17. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	e	00 to 01	18. Equalizer	j	v	(p.9)
05. Volume Control	k	f	00 to 64	19. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	20. Tune Command	m	a	(p.9)
07. Brightness	k	h	00 to 64	21. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
08. Color/ Colour	k	i	00 to 64	22. Key	m	c	Key Codes
09. Tint	k	j	00 to 64	23. Control Backlight, Control Panel Light	m	g	00 to 64
10. Sharpness	k	k	00 to 32	24. Input select (Main)	x	b	(p.11)
11. OSD Select	k	l	00 to 01	25. 3D (Only 3D models)	x	t	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01	26. Extended 3D (Only 3D models)	x	v	(p.12)
13. Treble	k	r	00 to 64	27. Auto Configure	j	u	(p.12)
14. Bass	k	s	00 to 64				

* 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.

00 : Step 0	32 : Step 50 (Set ID 50)	FE : Step 254
01 : Step 1 (Set ID 1)	33 : Step 51 (Set ID 51)	FF : Step 255
...
0A : Step 10 (Set ID 10)	63 : Step 99 (Set ID 99)	01 00 : Step 256
...
0F : Step 15 (Set ID 15)	C7 : Step 199	27 0E : Step 9998
10 : Step 16 (Set ID 16)	C8 : Step 200	27 0F : Step 9999
...

* 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]

- To Show TV is Power On or *Off

Transmission [k][a][][Set ID][][FF][Cr]

Ack [a][][Set ID][][OK][Data][x]

* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

02. Aspect Ratio (Command: k c)

(Main Picture Size)

- To adjust the screen format. (Main picture format)
You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01 : Normal screen (4:3)	07 : 14:9 (Europe, Colombia, Mid-East, Asia except South Korea and Japan)
02 : Wide screen (16:9)	09 : * Just Scan
04 : Zoom	0B : Full Wide (Europe, Colombia, Mid-east except Colombia Only)
05 : Zoom 2 (Latin America)	10 to 1F : Cinema Zoom 1 to 16 Original
06 : Set by Program/	0c : 21:9 (Depending on model)

Ack [c][][Set ID][][OK/NG][Data][x]

- * Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
- * In DTV/HDMI/Component mode (high-definition), Just Scan is available.
- * Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

03. Screen Mute (Command: k d)

- To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on)
Video mute off
01 : Screen mute on (Picture off)
10 : Video mute on

Ack [d][][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 colour in the PICTURE menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [i][][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

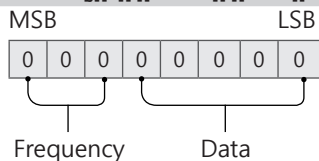
20: Color(Colour) Wash

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]



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1st Band	0	0	0	0	0	0(decimal)
0	0	1	2nd Band	0	0	0	0	1	1(decimal)
0	1	0	3rd Band
0	1	1	4th Band	1	0	0	1	1	19(decimal)
1	0	0	5th Band	1	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][][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**

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][x][a][][Set ID][][NG][Data 00][x]

- 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 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 Physical/Major Channel Number Only (One Part Channel)
- 66 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)
- 0b : Cable DTV Plus – Use Physical Channel Number
- 2b : Cable DTV Plus – Don't Use Physical Channel Number
- 4b : Cable DTV Plus – Use Physical/Major Channel Number Only (One Part Channel)
- 6b : Cable DTV Plus – 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][][0][][Data00][][Data01]

[][Data02][][Data03][][Data04][][Data05][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)
- 42 : Antenna TV (DTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 62 : Antenna TV (DTV) – Use Major Channel Number Only (One Part Channel)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

* Tune Command Examples:

1. Tune to the digital antenna (ISDB-T) channel 17-1.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 17 = 00 11

Data 03 & 04 = Minor/Branch is 1 = 00 01

Data 05 = Digital Antenna TV = 02

Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Don't Care = 00 00

Data 05 = Digital BS TV = 07

Total = **ma 00 00 00 1E 00 00 07**

* This feature is varied based on the model.

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

ISDB-BS (Japan)

03 : ISDB-CS1 (Japan)

04 : ISDB-CS2 (Japan)

11 : CATV

20 : AV or AV1 21 : AV2

40 : Component1 41 : Component2

60 : RGB

90 : HDMI1 91 : HDMI2

92 : HDMI3 93 : HDMI4

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

* This function depends on model and signal.

25. 3D(Command: x t) (only 3D models)

(Depending on model)

► To change 3D mode for TV.

Transmission [x][t][][Set ID][][Data 00][][Data 01]

[][Data 02][][Data 03][Cr]

* (Depending on model)

Data Structure

[Data 00] 00 : 3D On

01 : 3D Off

02 : 3D to 2D

03 : 2D to 3D

[Data 01] 00 : Top and Bottom

01 : Side by Side

02 : Check Board

03 : Frame Sequential

04 : Column interleaving

05 : Row interleaving

[Data 02] 00 : Right to Left

01 : Left to Right

[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14
(*transmit by Hexadecimal code)

- * [Data 02], [Data 03] functions depend on model and signal.
- * If [Data 00] is 00 (3D On), [Data 03] has no meaning.
- * If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
- * If [Data 00] is 03 (2D to 3D), [Data 01] and [Data 02] have no meaning.
- * If [Data 00] is 00 (3D On) or 03 (2D to 3D), [Data 03] works when 3D Mode (Genre) is manual only.
- * All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

```
Ack [t][ ][Set ID][ ][OK][Data00][Data01][Data02]
[Data03][x]
[t][ ][Set ID][ ][NG][Data00][x]
```

26. Extended 3D(Command: x v) (only 3D models) (Depending on model)

- To change 3D option for TV.

```
Transmission [x][v][ ][Set ID][ ][Data 00][ ]
[Data 01][Cr]
```

[Data 00] 3D option

- 00 : 3D Picture Correction
- 01 : 3D Depth (3D Mode is Manual Only)
- 02 : 3D Viewpoint
- 06 : 3D Color Correction
- 07 : 3D Sound Zooming
- 08 : Normal Image View
- 09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

1) When [Data 00] is 00

- 00 : Right to Left
- 01 : Left to Right

2) When [Data 00] is 01, 02

Data Min: 0 - Max: 14 (*transmit by Hexadecimal code)

Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)

- * This option works when 3D Mode (Genre) is manual only.

3) When [Data 00] is 06, 07

- 00 : Off
- 01 : On

4) When [Data 00] is 08

- 00 : Revert to 3D video from 3D-to-2D converted 2D video
- 01 : Change 3D video to 2D video, except 2D-to-3D video

- * If conversion condition doesn't meet, command is treated as NG.

5) When [Data 00] is 09

- 00 : Standard
- 01 : Sport
- 02 : Cinema
- 03 : Extreme
- 04 : Manual
- 05 : Auto

```
Ack [v][ ][Set ID][ ][OK][Data00][Data01][x]
[v][ ][Set ID][ ][NG][Data00][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 Auto Configure

```
Ack [u][ ][Set ID][ ][OK/NG][Data][x]
```



Using Magic Remote Control



- Power** Turns the TV on or off.
- Accesses the [Guide].**
- (Dash)** Inserts a — between numbers such as 2-1 and 2-2.
- LIST** Accesses the saved channel 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 center of button to select a menu. You can change channels by using button.
- Wheel (OK)** Accesses the [Magic Explorer]. You can run the [Magic Explorer] feature when the pointer color is changed to purple. If watching a channel, 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.
- 9**** Accesses the [Quick Help].
- More actions** Displays more remote control functions.
- AD/SAP**** SAP (Secondary Audio Program) feature can also be enabled by pressing the button.
- Channel buttons** Scrolls through the saved channels.
- 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.


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

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

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



How to register the Magic Remote Control

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

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



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 models with motion sensors, such as G2, if you set screen on with the motion sensor, the TV will turn on by recognising the motion.
- 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.

- 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 upon the device.
- Bring the smart device near the  (NFC) on the remote control. The required distance for NFC tagging is about 1 cm (0.39 inches).
- Follow the instructions to install the LG ThinQ app on your smart device.
- 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

Specifications (MR22GN, MR22GA)		
	Frequency range	Output Power (Max.)
Bluetooth	2,400 to 2,483.5 MHz	7 dBm
NFC	13.56 MHz	-

* Only MR22GN



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LG LCD / LED / OLED Television Limited Warranty - USA

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Should your LG LCD / LED / OLED Television ("Product") fail due to a defect in materials or workmanship under normal and proper use, during the warranty period set forth below, LG Electronics ("LG") will, at its discretion, repair or replace the Product. This limited warranty is valid only to the original retail purchaser of the Product and applies only when purchased lawfully and used within the United States including U.S. Territories.

WARRANTY PERIOD	WHAT IS COVERED
One (1) year from the date of original retail purchase	Parts and Labor (Internal/functional parts only)

- Replacement products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.
- Replacement products and parts may be new, reconditioned, refurbished, or otherwise factory remanufactured.
- Replaced product or part(s) will be the property of LG.
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EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THE ABOVE LIMITED WARRANTY. UNDER NO CIRCUMSTANCES SHALL LG OR ITS U.S. DISTRIBUTORS/DEALERS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, OR PUNITIVE DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST GOODWILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, IMPAIRMENT OF OTHER GOODS, COST OF REMOVAL AND REINSTALLATION OF THE PRODUCT, LOSS OF USE, OR ANY OTHER DAMAGES WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. LG'S TOTAL LIABILITY, IF ANY, SHALL NOT EXCEED THE PURCHASE PRICE PAID BY YOU FOR THE PRODUCT.

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HOW SERVICE IS HANDLED:

The original sales receipt specifying the Product and date of purchase is required to obtain warranty service.

Under some circumstances you may be asked to provide credit card information for a non-warranty service fee, as a deposit for advanced shipment, or cost of unreturned loaner product.

To ensure proper credit and avoid unnecessary charges, you must obtain a return authorization before returning any product to LG.

In the event a replacement product is received, please use the original carton/packaging from that replacement product in returning the defective unit to LG.

PIXEL FUNCTIONALITY:

Your Product's display contains many individual pixels, and typically a small number of pixels do not function normally. Your display has been inspected and is in compliance with LG's specifications, and any pixel non-functionality does not affect the operation or use of your Product's display.

THIS LIMITED WARRANTY DOES NOT COVER:

- Service trips to deliver, pick up, install, educate on how to operate, replace fuses, correct wiring, or correct unauthorized repairs and the removal and reinstallation of the Product for repair.
- Damage or defects of the Product caused by installation or repair of antenna systems, cable converters, other equipment supplied by cable company, or other components in a video system.
- Damage or defects of the Product caused by improper set-up or adjustment on consumer controls.
- Damage or defects of the Product caused by transportation and/or handling, including scratches, dents, chips, and/or other damage to the finish of your Product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery.
- Damage or defects of the Product when used in other than normal and usual, single-family household use (e.g., commercial use, offices, etc.).
- Damage or defects of the Product caused by incorrect electrical current or voltage, power failures, interruptions or inadequate electrical service, including incorrect or insufficient AC supply.
- Damage or defects of the Product resulting from improper installation or operation of the Product contrary to the Product owner's manual and/or installation manual.
- Damage or defects of the Product caused by accidents, pests and vermin, lightning, wind, fire, flood, or other acts of nature.
- Damage or defects of the Product resulting from misuse, abuse, improper installation/repair/maintenance.
- Damage or defects of the Product caused by the use of accessories, parts, consumable cleaning products, or service not provided or approved by LG.
- Damage or defects of the Product caused by unauthorized alteration, modification or incorporation into any other product or system components, or if it is used for other than the intended purpose.
- Damage or defects of the Product or missing items to any Product sold "As Is," "With All Faults" or similar disclaimer.
- Products with original serial numbers that have been removed, altered, or cannot be readily determined.
- Increases in utility cost and additional utility expenses.
- Replacement of any consumable parts, including batteries for the remote control.

The cost of repair or replacement under the above excluded circumstances shall be borne by the original retail purchaser.

TO OBTAIN WARRANTY SERVICE AND ADDITIONAL INFORMATION:

Call 800-243-0000 and select the appropriate option from the menu.

Or visit our website at <http://www.lg.com>.

Or by mail: LG Electronics Customer Service, P.O. Box 240007, Huntsville, AL 35813 ATTN: Customer Service

PROCEDURE FOR RESOLVING DISPUTES:

ALL DISPUTES BETWEEN YOU AND LG, ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. BINDING ARBITRATION MEANS THAT YOU AND LG ARE EACH WAIVING THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

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Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ07632 USA. You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number; identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days, either party may proceed to file a claim for arbitration.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after sending written notice to LG, you and LG agree to resolve any claims between us only by binding arbitration on an individual basis, unless you opt out as provided below. Any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim. More specifically, without limitation of the foregoing, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought as a class or representative basis.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be administered by the American Arbitration Association ("AAA") and will be conducted before a single arbitrator under the AAA's Consumer Arbitration Rules that are in effect at the time the arbitration is initiated (referred to as the "AAA Rules") and under the procedures set forth in this section. The AAA Rules are available online at www.adr.org/consumer. Send a copy of your written demand for arbitration, as well as a copy of this provision, to the AAA in the manner described in the AAA Rules. You must also send a copy of your written demand to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ07632 USA. If there is a conflict between the AAA Rules and the rules set forth in this section, the rules set forth in this section will govern. This arbitration provision is governed by the Federal Arbitration Act. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the state of your residence shall govern this Limited Warranty and any disputes between us except to the extent that such law is preempted by or inconsistent with applicable federal law.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(d)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely on the basis of (1) documents submitted to the arbitrator; (2) through a telephonic hearing; or (3) by an in-person hearing as established by the AAA Rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the AAA Rules. Any in-person arbitration hearings will be held at a location within the federal judicial district in which you reside unless we both agree to another location or we agree to a telephonic arbitration.

Opt Out. You may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either: (i) sending an e-mail to optout@lge.com, with the subject line: "Arbitration Opt Out" or (ii) calling 800-980-2972. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number; and (d) the serial number (the serial number can be found (i) on the product, or (ii) online by accessing <http://www.lg.com/us/support/repair-service/schedule-repair-continue> and clicking on "Find My Model & Serial Number").

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above.



REGISTER YOUR PRODUCT ACTIVATE YOUR WARRANTY



REGISTER EASILY WITH YOUR PHONE

1. Take a photo
of the camera icon to the right

2. Send it in:
Text photo to 77228

Need help? Visit Photoregister.com/help
or text HELP to 77228.



Other easy ways to register:



REGISTER ONLINE

Visit <https://www.lg.com/us/support/product-registration>

or



REGISTER BY MAIL

Within the next 10 days

☐ Mr. ☐ Mrs. ☐ Ms. ☐ Miss

First Name

Initial

Last Name

Street

Apt

City

State/Province

Zip/Postal Code

Email

Date of Purchase

Phone Number

Model Number

Serial Number

Name of Purchase Location

☐ By checking this box, I wish to receive helpful information about my new product as well as news and offers from LG Electronics U.S.A., Inc. in accordance with the privacy policy located at www.lgusa.com/privacy.

To update your communication preferences, please visit MyLG at www.lgusa.com/mylg. Failure to return this card will not diminish your warranty rights.

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REGISTER YOUR PRODUCT ACTIVATE YOUR WARRANTY

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Now it's important to register your product—a quick, simple process with many benefits:

- Serves as verification of ownership if it's lost or stolen
- Helpful emails on how to make the most of your product
- Reminders about downloads and firmware updates
- More efficient warranty service
- Exclusive information on new products and innovations
- Special offers and promotions



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Welcome to the
LG family!

Please seal with tape. Do not staple.

3 EASY WAYS

to register your product



PHOTOREGISTER

text photo to 77228
see back for details



ONLINE

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MAIL

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card in the mailbox

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