User Guide

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

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Getting Started with webOS

Home Tutorial

Using the Home Feature of the LG webOS

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 function.
Press the button on the remote control. You can use or close recently used apps saved for each LG Account account.

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



❶ Launch **LG Account**.
To see the details, click the **Getting Started with webOS** → **Manage Your LG Account** in **User Guide**.

❷ Launch **Notifications**.
To see the details, click the **Making the Most of Smart function** → **Notifications** in **User Guide**.

❸ Launch **Quick Settings**.
To see the details, click the **Settings** → **Quick Settings** → **To Use Setting Function Quickly** in **User Guide**.

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

❺ Advertisements are displayed.

You can turn advertisements on or off in → → **General** → **System** → **Additional Settings** → **Home Settings** → **Home Promotion**.

❻ You can use various functions or services.

❼ You can run, move, and delete the apps installed on your device.

❽ Returns to the most recently used external input.

- The Home screen is automatically displayed whenever you turn on the power. To disable this feature, go to → → **General** → **System** → **Additional Settings** → **Home Settings** and set **Power On Screen** to **Recent Input**.
- The availability of and access to Contents and Services in the 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 Home

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

- For each LG Account, the list you edit is saved only on that device.

Edit Card List

01 Select the card you wish to edit, and press and hold the **Wheel (OK)** button on the remote control.
Alternatively, you can press the **Edit** button located at the end of the Card List.

02 Move to the desired position and press the **Wheel (OK)** button to change the position of the app. You can also move cards with the ◀/▶ buttons on your remote control.
Select the cards you want and add them to the list.
To delete an card, select the ^ icon above the card.

- Press the ••• button on the remote control.
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.

03 After editing is complete, Press the ↩ button on the remote control to exit the Edit

Card mode.

Edit App List

01 Select the app you want to edit, and then press and hold the **Wheel (OK)** button on the remote control to enter the **Edit App List** mode.
Alternatively, you can press the **Edit App List** button located at the end of the App List.

02 Move to the desired position and press the **Wheel (OK)** button to change the position of the app.
To delete an app, select the 🗑 icon above the app.
You can reset the order of the app list by pressing **Reset App Order**.

- You can also move apps with the ◀/▶ buttons on your remote control.
- Press the ••• button on the remote control.
  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.

03 After editing is complete, click **Close** at the bottom of the screen to exit the Edit App mode.

- Default apps cannot be deleted.

Edit Contents List

01 Scroll down to the bottom of the Home screen by rolling the **Wheel (OK)** button, and select ✎ to enter Edit Contents List mode.

02 Select the list you want to move with the **Wheel (OK)** button, move it to the desired location, then press the **Wheel (OK)** to confirm. You can also move the list with the ▲/▼/◀/▶ buttons on the remote control.

- Press the ••• button on the remote control.
  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.

03 After editing is complete, click **Close** at the bottom of the screen to exit the Edit Content List mode.

- Some lists cannot be moved.

Watching Broadcasts

Watching Broadcasts

01 Connect the broadcast antenna/cable to the device.
If there are more than two terminals, you must check the markings on the antenna terminal and connect it to the appropriate terminal for your country.

02 Launch → → **General** → **Programmes** → **Programme Tuning** → **Auto Tuning**.
You can search for the current broadcasting programme and save it to the device.

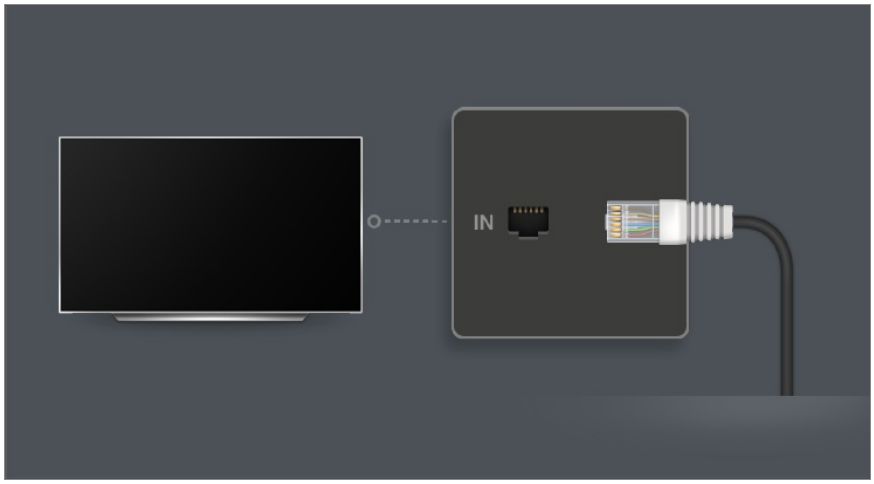
- You can also connect a piece of equipment that can receive broadcasting such as a set-top box instead of the antenna.
  Launch → → **General** → **External Devices** → **Universal Control Settings**.
- To solve a problem related to this function, refer to the **Troubleshooting** section of **User Guide**.

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.

Wired Connection (Ethernet)



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

- If the router supports DHCP, the device is automatically connected to the network when you connect the device to the network with a LAN cable.

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, refer to **Wired Connection (Ethernet)** in **Settings** → **Network** in the **User Guide**.

- Some models may not be supported.

Wi-Fi Connection



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 LAN router is password protected, enter the password configured for the router.
To see the details, refer to **Wi-Fi Connection** in **Settings** → **Network** in the **User Guide**.

Network Setting Warnings

- Use standard LAN cable (connect to Cat7 or higher with 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 device, and then reconnect and turn it on.
- The manufacturer 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, device's network setting 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 device 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 device 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 the **Troubleshooting** section of **User Guide**.

Manage Your LG Account

LG Membership

Logging in with **LG Account** enables you to use customised recommended content and various app services.
You can sign up for LG membership and log in with your email address in **LG Account**. Alternatively, you can sign up for LG membership using the ID and password of an external service account.

01 Press the ⌂ button on the remote control and select 👤.

02 Start signing up for LG Membership by selecting one of the suggested login methods.

03 Agree to the User Agreements and enter the information required to sign up.

- Required information may vary depending on 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 the **Troubleshooting** section of **User Guide**.

Switching Login Accounts

You can conveniently switch between previously logged-in accounts.

01 Select ⌂ → **LG Account**.

02 A list of previously logged-in accounts is displayed. Select the account you wish to change.
To log in with a new account, select **Add Account**.

- You can save up to 10 accounts. If the number of accounts exceeds 10, the earliest logged-in account is deleted.

Manage Your LG Account

You can edit the list of logged-in accounts.

01 Select ⌂ → **LG Account**.

02 Press ⋮ to select **More account information**.

- Basic information about the account can be viewed by selecting **Account Management** under the logged-in account. Also, you can change your password or edit your account information.
  Pressing enables you to delete the saved account.

Using a Simple Password

You can set a simple password to be entered when switching accounts.

01 Select → **LG Account**.

02 Press to select **More account information**.

03 Select **Account Management**. You can only select the account you are logged in to for **Account Management**.

04 Select **Security Settings** → **Edit Security Settings**, and enter the password for that account.

05 Select **Simple Password** for **Account Switching Methods**.

06 Enter the desired four-digit number, and press **OK**.

- You can use **Simple Password** only when switching accounts within this device.

Using Always Ready

Using Always Ready

Turning off the device with the button on the Magic Remote 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 this device's internal speaker. Press the button on the Magic Remote. The wallpaper is displayed.

- To activate **Always Ready** with the button on the Magic Remote, set the **Enable the function** in the → → **General** → **Always Ready** to **On**. Turning this option **On** may increase energy consumption.
- You can also activate the mode by selecting **Always Ready** from the Home screen.



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

❷ You can set the content to be displayed by category or configure detailed settings for **Always Ready**.



❶ **Information** : You can display the time and weather information of the region for which the device is set.
Select **Briefing** to display additional information such as match information you have set for **Sports**, information about connected IoT devices, and a list of viewing reservations.
Weather is displayed as the weather for the region set in **Weather Location Setting** on ⚙ → ⚙ → **General** → **System** → **Location**.
Art Piece : Works of modern art, landscapes, and more can be downloaded and set as wallpapers.
Movements : Works with a motion can be downloaded and set as wallpapers.
Moments : You can set a picture from a connected external device, a smart device connected with LG ThinQ, or Google Photos as your screen wallpaper. You can use Google Photos after you link your Google account.
Sound Palette : You can play mood sound from the internal memory or music from a device connected via Bluetooth or USB.

❷ You can select multiple Standby Mode contents and play them sequentially. Content

stored on the device can be deleted.

❸ **Get Notifications** : Even when the screen is off, you can receive notifications from external devices set on **Home Hub**.
Screen On via Motion Sensor : The wallpaper in **Always Ready** turns on when motion is detected in front of the device.
Motion Sensor Sensitivity : The sensitivity of the motion sensor can be adjusted.
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 device is **Always Ready** with the screen off.
Sync Google Calendar : You can view today's schedule in the Information → Briefing theme by linking your Google account.
Sync Google Photos : You can set a Moments theme with an album in Google Photos by linking your Google account. If you have multiple albums in Google Photos, up to 5 albums are randomly selected, with a maximum of 100 photos displayed per album. However, only albums containing at least 16 photos are selected. There may be restrictions on using this feature depending on the status of Google services.
Connect Illumination Sensor : Controls the brightness of **Always Ready** in conjunction with the ambient light sensor.
User Guide : Move to the **User Guide** app.
Quit App : Turns off the app from running in the background.
Always Ready Usage Settings : Move to the → → **General** → **Always Ready**. You can turn the **Always Ready** feature on or off from the corresponding Settings menu.

- The configurable items differ depending on model.

Exit Always Ready and Watch The device

To watch the device 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 the screen is off in **Always Ready**, you can turn on the device by pressing the button on the Magic Remote or with Hands-free Voice Control.
Press the **Wheel (OK)** button on the remote control to display the wallpaper when the device is **Always Ready** with the screen off.

- Some models do not support Hands-free Voice Control.

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 device is **Always Ready** with the screen on, press the button on the Magic Remote 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.

Precautions on Motion Sensor

The motion sensor is located at the bottom centre of the device.

- The motion sensor is only supported by certain models.
- If the motion sensor is stained with a foreign body, it may not operate properly.
- If the surrounding environment of the device is too bright or too dark, the motion sensor may not work properly.
- The presence of any obstacles in front of the device may affect the sensing capability of the motion sensor.
- The motion sensor operates by detecting changes in lighting around the device or motion of objects (pets, robot vacuums, etc.).
  Adjust the sensitivity of the sensor in **Options** → **Motion Sensor Sensitivity**.

About User Guide

About User Guide

For information on each feature of the webOS, consult the **User Guide** available on the device.
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 colour 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 screen.
- Green : the names of the device 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.

Easy Using the Device

Easy Using the Device

If you have difficulty in seeing or hearing, try using the audio-visual assistance feature. You can also find out how to use the remote control and device and troubleshoot problems.
Press the button on the remote control and select **Accessibility**.
To activate **Accessibility** from any screen, press and hold the button on the remote control.

Vision Features

There are settings available for enhancing screen viewing.

Hearing Features

There are settings available for enhancing audio quality.

Learn Remote Control

Press a button on the remote control following the on-screen instructions to get information about the button.

Tips

You can find tips on various features.

Quick Help

You can receive assistance for diagnosing and resolving issues with the device.
You can also long-press the number **9** button of the remote control to run the **Quick Help**.

Chatbot

You can resolve issues with the device by chatting with the Chatbot.

How to Operate The Device

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 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 device to use it.
Pair the Magic Remote prior to use as follows:

01 Turn on the device. After about 20 seconds, point the remote towards the device and then press the **Wheel (OK)**.

02 The remote control will be registered automatically, and the pairing completion message is displayed on the screen.

- If the Magic Remote failed to register, turn the device 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 screen, you must re-register it.

01 Hold the remote control towards the device 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 devices and want to register the Magic Remote currently in use to another device, 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 LED on Magic Remote will blink and the registration will be canceled.

02 If you want to unregister and register for another LG Smart device, 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. Select → → **General** → **Accessibility** → **Learn Remote Control**. Press a button on the remote control following the on-screen instructions to get information about the button.

- The marks and positions of the remote control buttons may vary depending on the model.
- Depending on the model, some features may not be available.



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

- **9** ◎ : Launch **Quick Help**.
- **GUIDE** : Launch **Guide**.
  GUIDE ◎ : Displays **Programmes**.
- **0** ◎ : The **Quick Access** edit screen appears.
- ••• : Display the additional buttons on the remote control.
  ••• ◎ : It reads the content of the screen out loud or sets the multiplex voice.
- +− : Adjust the volume level.
- : Select to turn off the sound from the device.
  ◎ : Enter the **Accessibility** menu.
- ∧∨ : You can change the programme.
- : Shows the recommended voice commands. You can use the voice recognition feature by holding down the button and speaking toward the remote control.
- : Displays the Home menu.
  ◎ : Launches the last used app.
- : Selects an input source.
  ◎ : Entering into the **Home Hub**.
- : Move to the previous step.
  ◎ : Closes the menu.
- : Enters the Quick Settings menu.
  ◎ : Enters the All Settings menu.
- ◎ : Launch **Record**.

Using the Magic Remote

01 If you shake the Magic Remote left and right or turn its wheel while pointing it at the device, a pointer will appear on the screen.
If you move the remote control to 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 device 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 metres). If there is an obstacle between the device 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**.

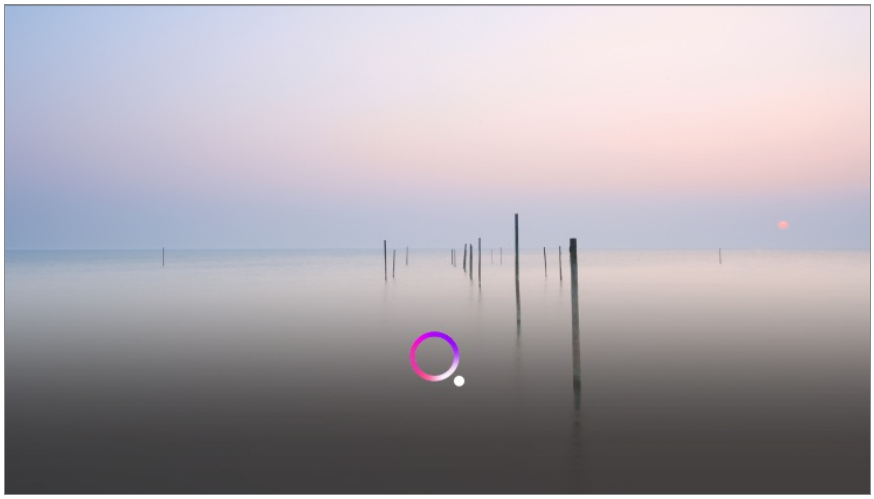
Using Device Functions through Speech

Using Device Functions through Speech

You can easily and quickly access the device'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 the manufacturer 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**.

Using your voice as your Voice ID

Register your voice to your **LG Account**. We can recognise you with your registered voice to provide personalized content and services.

01 Log in to your LG Account to register your voice.

02 Select ⚙ → ⚙ → **General** → **AI Service** → **Voice Recognition Settings**.

03 Select **Voice ID** → **Manage Voice ID**.

04 Press **Register Voice ID** and follow the on-screen instructions to register your voice.

- Some models may not be supported.
- The languages available for **Voice ID** features may be subject to change in accordance with the Service Operation Policy.

- After registering your voice with your **LG Account**, you must set **Use Voice ID on this TV** to **On** to use it.
- You can register, re-register, or delete your voice from **Voice ID** in ⚙ → ⚙ → **General** → **AI Service** → **Voice Recognition Settings**.
- With **Voice ID**, you don't have to enter your password when you switch accounts.
- A person with a similar voice may unlock the device, and if your voice is different due to health-related reasons, it may not be recognised.

Using the speech recognition function with the LG ThinQ app

You can use the speech recognition function by pressing the 🎙 button on the LG ThinQ app installed on your smart device.
To connect your smart device to this device with the LG ThinQ app, see **Connecting External Devices** → **Connecting a Smart Devices by the LG ThinQ** in **User Guide**.

- When using the speech recognition function through the LG ThinQ app, some functions or devices may not work.

Cautions for Speech Recognition

- To use voice recognition
  You must use the Magic Remote.
  You must set the programmes, region, etc. The configurable items differ depending on model.
  You must be connected to a network. You must agree to the Voice Recognition Terms of Service when you connect to the network.
- To control the set-top box connected to the device with the voice recognition feature, you must set the integrated remote control in ⚙ → ⚙ → **General** → **External Devices** → **Universal Control Settings**.
  It is recommended to point 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 device 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 away from the Magic Remote's microphone.
- If your speech is not recognised properly, speech recognition may operate differently than you originally intended.

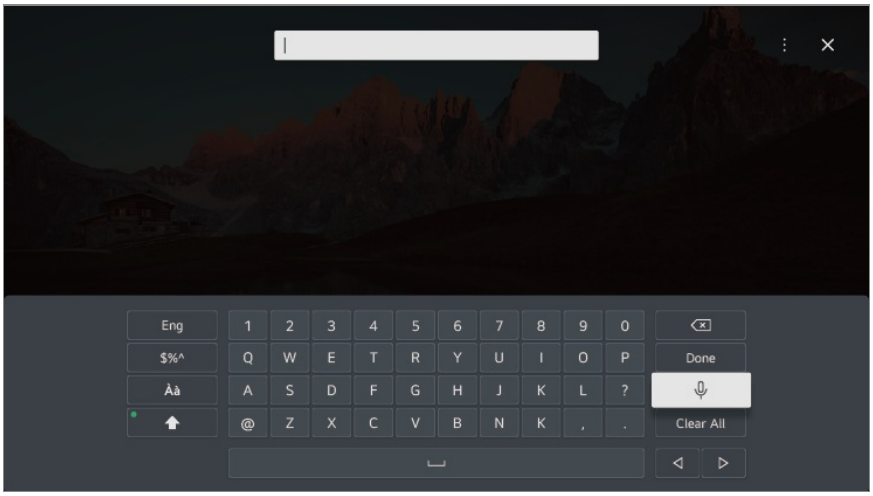
Speech to Text

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.

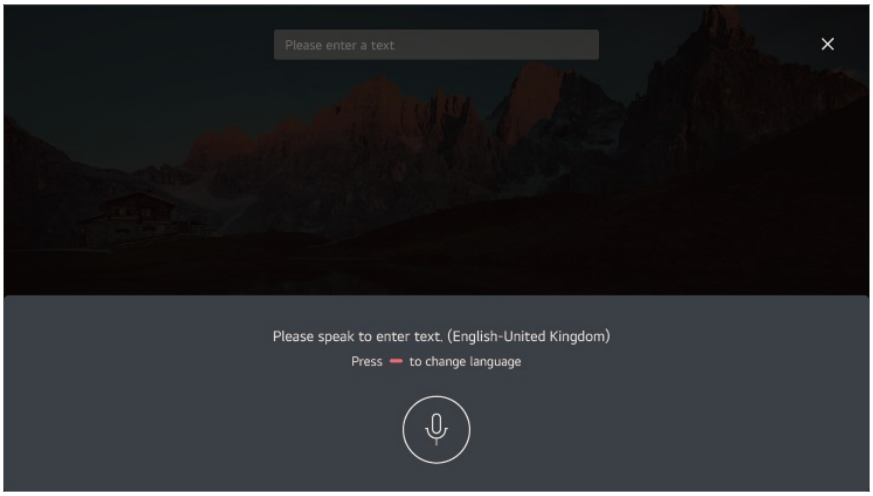
- Some models may not be supported.

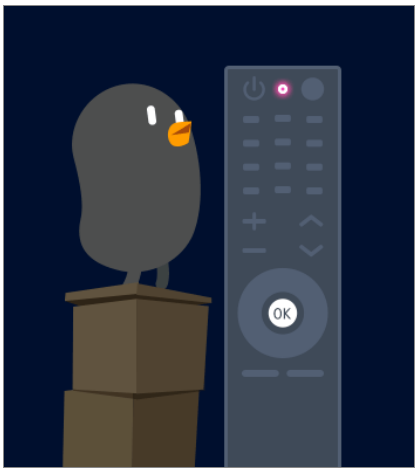
01 Move the Magic Remote pointer in the text box to open the virtual keyboard.



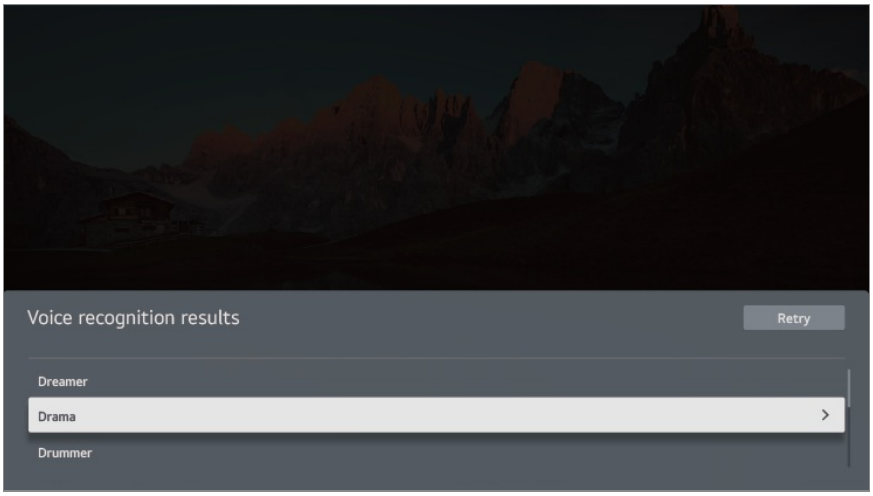
02 Press the button on the virtual keyboard.

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**. 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 Red button in the voice recognition information display window.
- You can only use this function to agree to voice recognition terms.
- 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 device volume).
- To improve the accuracy of Speech to Text, you must speak clearly and loudly about 10 cm 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).

Using the More Actions

Using the More Actions

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

01 Press the ••• button on the remote control.

- If your remote control does not have a ••• button, press and hold the Yellow button.

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

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

Setting Universal Control

Setting Universal Control

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

- Some models may not be supported.
- This feature can only be used with the Magic Remote.
  You can purchase the Magic Remote separately if it is not provided.
  Some models allow you to connect the provided IR blaster, enabling the use of a regular remote control by setting the integrated remote control.
- 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 on 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.

Automatically Setting the Universal Remote Control

Connect the devices to be set to this device's **HDMI IN**, and turn the power of the device on.
This device will recognise 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 → → **General** → **External Devices** → **Universal Control Settings**.

02 Select the **HDMI IN** connected to the device you wish to set, and select **Manage Settings**.

03 Press the **Start Setting** button to set the new integrated remote control by following the on-screen instructions.
You can retrieve a previously set integrated remote control from **View Settings History**.

- To delete the integrated remote control settings, select **Delete Settings** from the **Manage Settings** of the desired **HDMI IN**.

Using the 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 Quick Access

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

- The items that can be registered to the shortcut button vary depending on the model.

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 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

You can easily control devices such as the sound bar or set-top box connected through HDMI with a single remote control.

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

01 Connect the SIMPLINK HDMI Output port to **HDMI IN** port with an HDMI cable.

02 Press the ⚙ button on the remote control.

03 Select ⚙ → **General** → **External Devices** → **HDMI Settings**.

04 Set **SIMPLINK (HDMI-CEC)** to **On**.

05 Turn on the power of the connected device. When it is automatically connected to the device, the external input is changed.
If the device is not automatically connected, click the ⇦ button and select the device you wish to connect to.

- This feature works only with devices with the SIMPLINK 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 device's **HDMI (eARC/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 screen without having to control anything.

Controlling devices with the remote control

Enables the user to control multimedia devices with the provided 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 this device 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 this device.

- Some models may not be supported.

Using a Keyboard, a Mouse and a Gamepad

Connecting a Keyboard, a Mouse and a Gamepad

You can enter texts or move the cursor for operation by connecting a keyboard or mouse.
You can play gamepad-only games by connecting a gamepad.

Connecting to a USB port with a cable or wirelessly

Connect your mouse, keyboard, or gamepad to a USB port.

- It is recommended that you use a product that has been tested for compatibility with this devices.
  Keyboards : Logitech K360, Logitech K400, Logitech K750
  Gamepads : Sony DualShock 4, Sony DualShock 3, Sony DualSense Controller, Sony DualSense Edge Controller, Microsoft Xbox 360 Controller, Microsoft Xbox Adaptive Controller, NVIDIA SHIELD Controller, Logitech F310, Logitech F710, Amazon Luna Controller, Shaks S3b, Shaks S2b, Nintendo Switch Pro Controller, MOGA XP5-X Plus Controller
- The connection may be lost or slowed depending on the distance and wireless environment.
- The right mouse button and special mouse buttons may not work.
- Keyboard input may be limited on some screens.
- 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.
- To enter text in the text field, use the on-screen keyboard or a USB keyboard.

- You can use the connected gamepad buttons as the remote control buttons. The button's name or operation may differ based on the gamepad model.
  Logo Button : Launch **Games**.
  Left Stick : You can move in all four directions.
  Right Stick : You can change the volume or programme.
  A Button : Selects the corresponding item.
  B Button : Returns to the previous screen.

Connecting via Bluetooth

You can connect and use input devices such as a Bluetooth-enabled keyboard, mouse, or gamepad.
To see the details, click the **Settings** → **External Devices** → **Connect Bluetooth Controller** in **User Guide**.

Using a USB Input Microphone

Using a USB Input Microphone

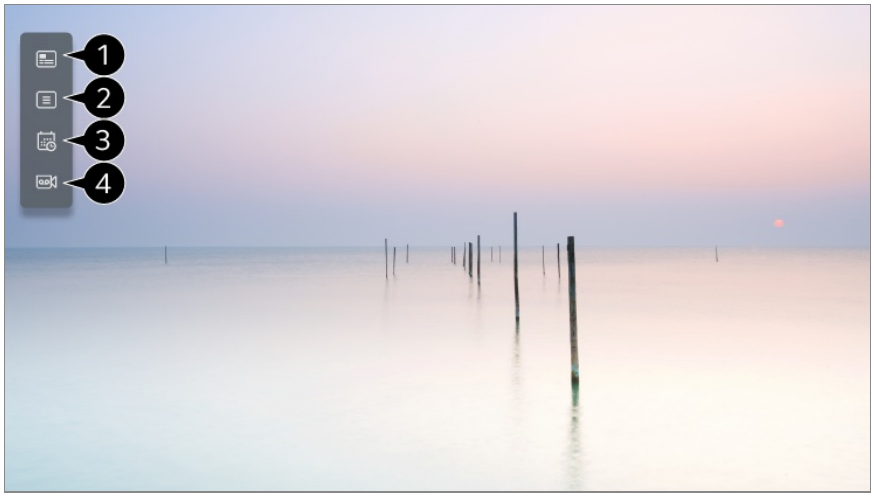
Connect your microphone to the **USB IN** port. You can enjoy contents exclusively for microphone.

Enjoy Live Channel

Using the Live Menu

Using the Live Menu

You can use the relevant features with ease when watching broadcasts.
Press and hold the **GUIDE** button on the Magic Remote.
Or press the **LIST** button on the standard remote control.



❶ **Guide** : You can view programmes and the schedule of each programmes.
To see the details, click the **Enjoy Live Channel** → **Viewing Guide** in **User Guide**.

❷ **Programmes** : View a list of broadcast content that is currently being broadcast.

❸ **TV Scheduler** : You can enter the time and date of a programme to schedule watching or recording it at the set time.
To see the details, click the **Enjoy Live Channel** → **Using TV Scheduler** in **User Guide**.

❹ **Recordings** : You can check the recordings stored in the storage device and play the recordings.
To see the details, click the **Enjoy Live Channel** → **Playing Recordings** in **User Guide**.

- The menu appears only if an external storage device is connected and the recorded video can be viewed.

- The programmes displayed in the programme list are provided by the broadcaster; therefore, if the broadcaster changes programme configurations without prior notice, some of the programmes in the list may differ from those of the actual device.
- Because programme information displayed in programme List includes information provided by external Electronic Programme Guide (EPG) providers, it may differ from the actual TV programmes.
- You must complete the settings of the network, region, and auto-programme to receive normal live broadcast service.
- The configurable items differ depending on model.

Viewing Guide

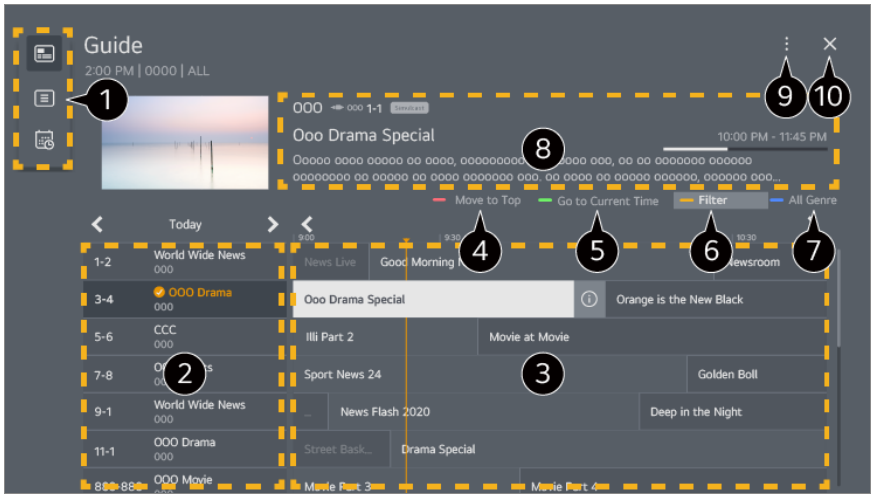
Viewing Guide

You can view programmes and the schedule of each programmes.

01 Run **Live TV** by pressing .

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

- If your remote control does not have a ••• button, press and hold the Yellow button.



❶ Select each area to access the corresponding feature.

❷ You can view information on the programme and broadcaster.

❸ You can flip through the pages by pressing the **(Programmes)** ∧/∨ buttons on the remote control.
Select the ⓘ button or the title of the desired programme. You can view more information on the programme and perform **Watch**/**Record** (only available on certain models) or **Reminder**/**Scheduled Recording** (only available on certain models), etc.

❹ Move to the top of the list of programs.

❺ You will be taken to the programme list for the current date and time.

❻ The type of channel displayed on the screen can be set.

❼ Displays the genres selected in **Guide** with colour.

❽ You can view information about the programme you are currently watching as well as the focused programme information.

❾ **Programme Manager** : Launch **Programme Manager**.
Programme Row : You can change the size of the programme list to adjust the number of programmes displayed on the screen.
Filters : The type of channel displayed on the screen can be set.
Mini TV : The screen can be turned on or off to preview the selected channel.
User Guide : Move to the **User Guide** app.

❿ Closes the app.

- Programme information is not displayed for programmes with no provided broadcast information.
- The configurable items differ depending on model or country.

Viewing Set-Top Box Guide

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

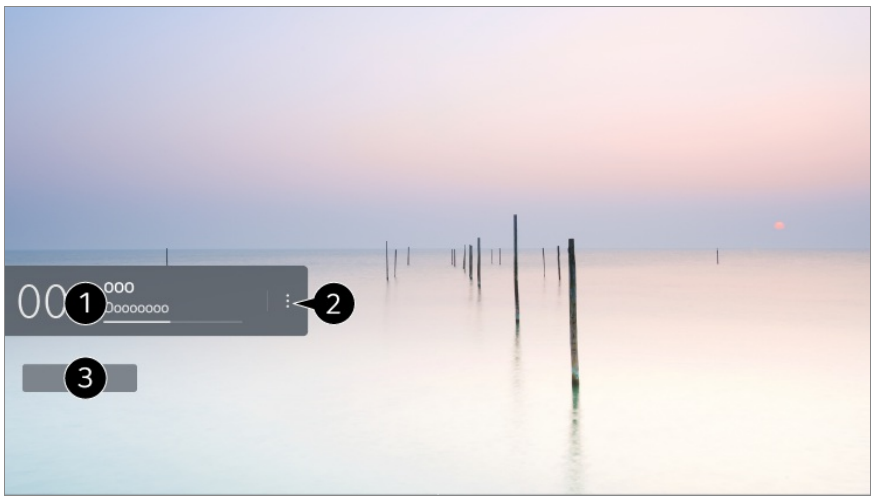
- Some models may not be supported.

Checking Programme Info

Viewing Programme Information

Whilst watching a live broadcast, press the **Wheel (OK)** button. The Programme Banner appears.
You can move the banner's position by pressing the ••• button on the remote control and selecting **Change Banner Location**.

- If your remote control does not have a ••• button, press and hold the Yellow button.



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

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

You can view broadcast information about the programme 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 The Device** → **Using the More Actions** in

User Guide.

❸ Launch **Guide**.
To see the details, click the **Enjoy Live Channel** → **Viewing Guide** in **User Guide**.

- Available features may vary depending on the broadcast signal.
- Depending on the model, some features may not be available.

Live Playback

Using Live Playback (Real-time Playback)

This function enables you to temporarily store the show currently being viewed on a USB hard disk and replay missed scenes while viewing the broadcast, ensuring continuity if you step away for a moment.

01 Input the USB HDD in the **USB IN** port.

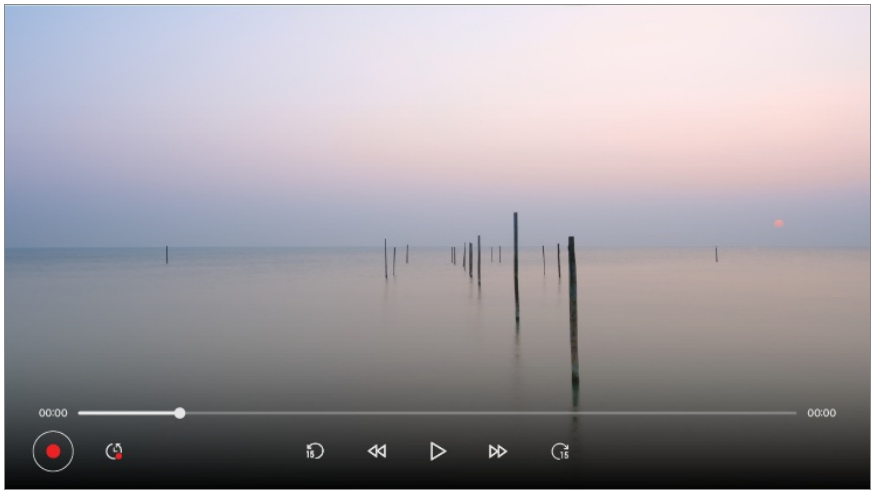
02 Press the ••• button on the remote control and select **Live Playback**.

- If your remote control does not have a ••• button, press and hold the Yellow button.

03 The **Live Playback** setting confirmation screen appears.
Complete the settings and press the **OK** button.

- If only one USB storage device is connected, the settings screen may not appear and **Live Playback** may run.

04 Whilst watching a live broadcast, select a point on the progress bar which you want with the pointer. You can also press the ◀/▶ buttons on your remote control to use this feature.
Select a previous point to the current point on the progress bar.



- You can only use the Live Playback function on digital broadcast programmes you watch through the antenna input port. However, you cannot use this option while listening to a radio programme.
- When more than one USB hard disk is connected to the device, select the device to use for time-shift.
- You cannot use a USB stick. Connect a USB HDD with 80 GB or more of total storage.
- If there is not enough remaining space in the USB HDD device, Live Playback may not work properly. To use Live Playback function, you need the USB HDD which has at least 2.3 GB.
- With the **Live Playback** function, you can play a programme back for up to two hours depending on remaining USB HDD capacity. This time may vary depending on your region.
- Content saved in time-shift is deleted if you turn off the device without recording.
- Changing between programmes during Live Playback will delete the data of the previous programme.
- Some models may not be supported.

Recording

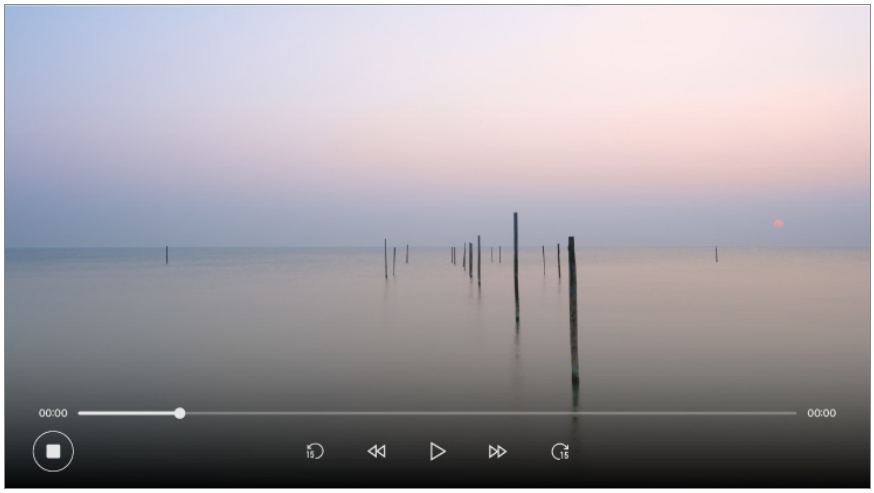
Using Instant Recording

01 Connect a USB HDD or USB stick to a **USB IN** port.
It is recommended that you record to a USB HDD.

02 Press the • • • button on the remote control and select **Record**.

- If your remote control does not have a • • • button, press and hold the Yellow button.

- To end the recording, press the • • • button on the remote control during recording and select **Record**.



Matters That Require Attention of Recording

- While recording, press the **Wheel (OK)** button to display information about the recording.
- You can set recording time before the recording starts, and during the recording, you can change the time by selecting the Record button.
- Recorded videos have content protection technology and cannot be played on a PC or other devices. The videos also will not play if the video circuit of the device is replaced.
- Do not remove the USB cable while recording.
- If you force your device to power off while recording, the recorded content may not be saved. Ideally, you should stop the recording and check that the programme has been recorded before turning the power off.
- The configurable items differ depending on model.
- Some functions may not be available while recording is in progress.
- You can only record digital broadcast programmes you watch through the antenna input port.
- Bluetooth and the USB port may not work properly when recording with a USB storage device.
- Recordings that are less than 10 seconds long will not be saved.
- You can save up to 600 pieces of content on a single partition.

About USB storage devices for recording

- The recordable time may vary depending on the capacity of your USB storage device.
- When attempting to record on USB memory for the first time, the device performs a performance check. This check must be completed successfully for recording to begin.
- Only NTFS, FAT32, or exFAT file systems used in Windows operating systems support the formatting of USB storage devices. USB storage devices formatted with utility programs not supported by Windows may not be recognised.
- Formatting a USB storage device on the device formats the storage device as the previous

file system of that USB storage device, NTFS, FAT32, or exFAT.

- The recommended capacity for USB memory is 32GB, and the recommended capacity for USB hard disk is 4TB or less. Devices exceeding the recommended capacity may not function properly.
- The available capacity of the USB HDD partition must be at least 1 GB.
- There must be at least 4 GB of partition size on USB stick.
- Recording may be interrupted if the remaining storage capacity is insufficient. Use of a storage device with sufficient space for recording is recommended.
- If multiple USB storage devices are connected, the last recorded storage device is selected automatically.
- Transfer speeds of the USB memory are different for each device.
- Recording quality depends on the performance of the USB storage device.
- If a USB storage device is faulty, recording may not be completed properly.
- USB storage devices used for recording do not work when connected to a USB hub. Also, since recording may not be completed properly when connected to a USB extension cable, please connect it directly to the USB port.
- We recommend using a USB storage device that is powered by an AC adapter plugged into a power outlet.

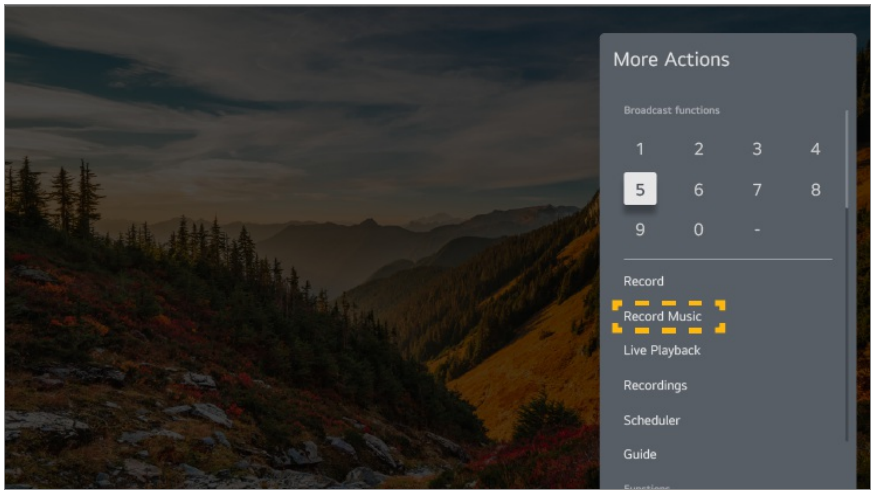
Music Catch

Using Music Catch

You can record music from the device at any time.

01 Whilst watching a live broadcast, press the ••• button.

02 Select **Record Music**.



- When a USB hard disk is connected to the device, select the device on which you wish to record.
- If there is not enough remaining space in the USB HDD device, Music Catch may not work properly. To use Music Catch function, you need the USB HDD which has at least 100MB.
- Stored files can be viewed in the **Media Player** app, and you can open them on your PC or portable devices.
- The recorded file is saved in aac or mp3 format. (The saved format varies by device model.)
- If you switch apps or input during recording, recording automatically ends and the recorded files will be saved.
- Only available with analogue broadcasts.
- With the Music Catch function, you can play a music for up to two hours.
- Some models may not be supported.

Using TV Scheduler

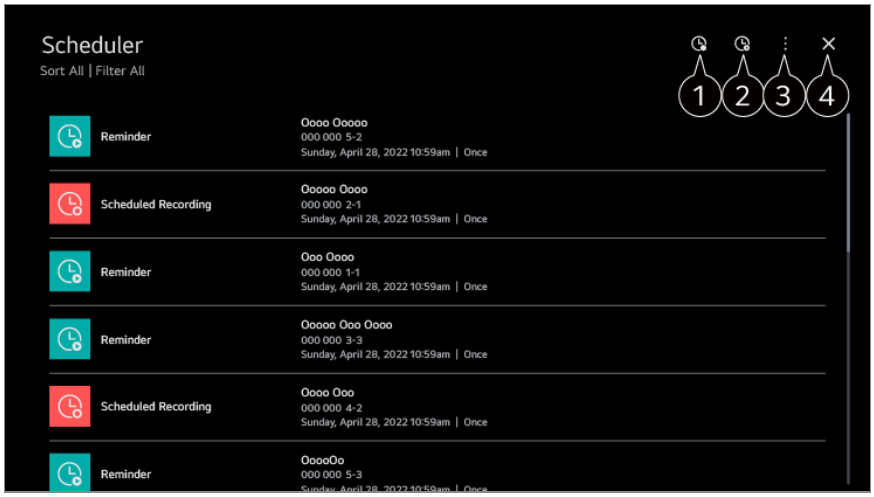
Using the TV Scheduler

You can enter the time and date of a programme to schedule watching or recording it at the set time.

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.

- If your remote control does not have a ••• button, press and hold the Yellow button.



❶ You can set the New Scheduled Recording.

❷ You can set the New Reminder.

❸ **Sort** : You can sort the list.
Filter : Sets the filter.
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.

❹ Closes the app.

Scheduling a selected broadcast from Guide

You can select a show to schedule it for watching or recording.

01 Run **Live TV** by pressing .

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

- If your remote control does not have a ••• button, press and hold the Yellow button.

03 Select the programme you want.
If you want to record a live broadcast, click the **Record** or **Watch** button.
In case of an upcoming programme, click the **Scheduled Recording** or **Reminder** button.

- Scheduled recording does not guarantee exact recording time of the programme because the programme will be recorded based on the information provided by the broadcaster.
- Applies to Digital broadcasting.

Manual Scheduling

You can select the date, time and programme to watch or record the programmes.

01 Run **Live TV** by pressing .

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

- If your remote control does not have a ••• button, press and hold the Yellow button.

03 Select the or the .

04 Select **Create Manually**.

05 Set the date, time, and programme to record or watch.

- The length of the scheduled recording should be at least 1 minute.

Playing Recordings

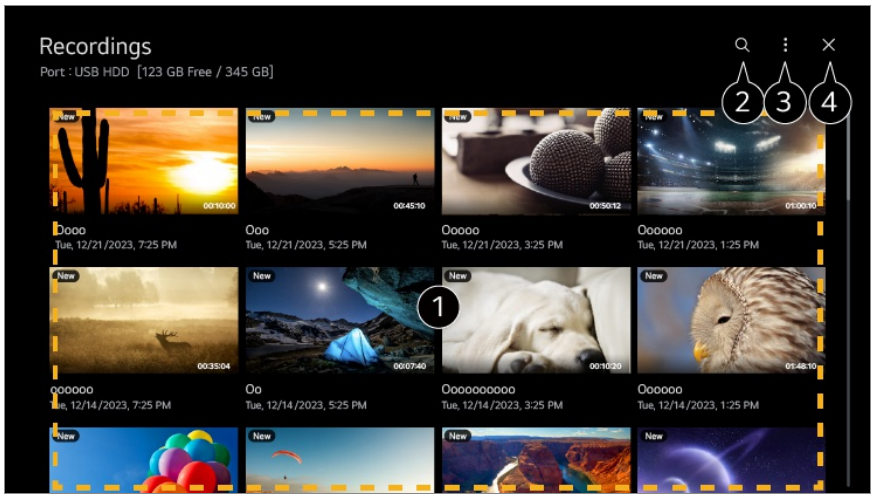
Managing Recordings

You can view and play recordings stored on storage devices by using the **Recordings** app.

01 Run **Live TV** by pressing .

02 Press the ••• button on the remote control and select **Recordings**.

- If your remote control does not have a ••• button, press and hold the Yellow button.



❶ You can flip through the pages by pressing the **(Programmes)** ∧/∨ buttons on the remote control.
Press the **Wheel (OK)** button on the remote control to play the content.
Long-press the **Wheel (OK)** button on the remote control to perform the following actions:
- **Delete** : You can delete the recorded content.
- **More Information** : You can view the recorded content's information, **Play**, or **Edit Title**.

❷ Launch **Search**.

❸ You can apply settings, such as storage devices and sort options, for the content list.

❹ Closes the app.

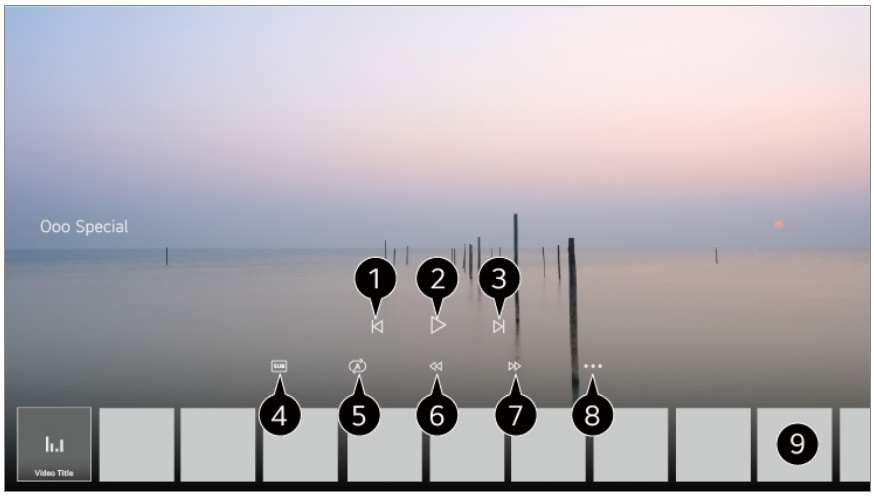
- Only recordings made on this device can be played back from **Recordings**.

Playing Recordings

You can access and operate basic features such as playback and pause on the playback screen.

01 Select your desired recording from the **Recordings** app.

02 Pressing the ◀/▶ buttons on the remote control allows you to skip backward/forward 10 seconds.
You can control the playback of your desired recording by pressing the **Wheel (OK)** button during playback.
You can access more features by pressing the ⌄ on the screen while using the playback control.



❶ Shows the previous recording.

❷ Plays or pauses the recording.

❸ Shows the next recording.

❹ Turn subtitles on or off.

❺ You can set continuous playback.

❻ Fast-rewinds the video at higher speeds.

❼ Fast-forwards the video at higher speeds.

❽ You can set features such as Resume and the audio language that can be outputted.

❾ A list of recordings is shown below.

- The configurable items differ depending on model.

Watching LG Channels

Watching LG Channels

You can watch real-time broadcasts through this service over the Internet.
You can see information on new Internet Programmes or manage the programmes 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 **(Programmes)** ∧/∨ buttons on the remote control.

You can use the 'Interactive Programme' service that enables users to conveniently enjoy content related to the current programme without having to switch apps.
You can use the 'Interactive Programme' by pushing the buttons on your remote control or clicking your screen according to the instructions that appear on the Internet programme screen.

- Some models may not be supported.
- You must connect to the network and agree to **User Agreements** before you use it.
- In the ⚙ → ⚙ → **General** → **System** → **Location**, the **Broadcast Country** and the **LG Services Country** must be the same. If you change any of them, you cannot use the service.
- While watching an Internet Programme, click the button on the Remote control. You can start the **LG Channels**.
- Selecting **LG Channels** will change the input mode to **LG Channels**. Some content may be replaced with other apps.
- Some Internet programmes may not support this service.
- Live Playback and recording are not available for internet programmes.
- Internet Programme services may be stopped or changed without prior notice by the broadcasting company.

TELETEXT

To Use Teletext

Teletext is a free service provided by the TV station that offers text-based information about TV programmes, news and weather.
The device's Teletext decoder supports SIMPLE, TOP, and FASTEXT systems.

01 Press the ••• button on the remote control.

- If your remote control does not have a ••• button, press and hold the Yellow button.

02 Select **Teletext** on the screen.

03 The Teletext window appears.

04 To view broadcast and Teletext simultaneously, press the ••• button on the remote control and select **Teletext**.

Colour button

To select the preceding or following page.

Number button

Enters the page number to move to.

(Programmes) ∧/∨ Button

To select the preceding or following page.

- Some models may not be supported.

Special Teletext Function

01 Press the ••• button on the remote control.

- If your remote control does not have a ••• button, press and hold the Yellow button.

02 Select **Teletext Option** on the screen.

03 Select the **Teletext** menu.

Index

Select each index page.

Time

When watching a broadcast, select the corresponding menu to see the time in the top right of the screen. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the /, / or Number buttons.

Hold

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.

Reveal

Select this menu to display concealed information, such as solutions to riddles or puzzles.

Update

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Select this menu again to view the updated teletext page.

Language

Sets Teletext language.

- In Digital Mode Only

To Set Teletext Language

Use the Teletext language function when two or more Teletext languages are broadcast.

01 Press the button on the remote control.

02 Select → **General** → **System** → **Language** → **Primary Teletext Language**/**Secondary Teletext Language**.

- In Digital Mode Only
- If Teletext data in a selected language is not broadcast, the default language will be displayed.
- If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.

HbbTV

Learn More about HbbTV

HbbTV (Hybrid Broadcast Broadband TV) is a new broadcasting standard that enables super-teletext type services. It enables the transmitted programs to integrate with smart devices in use or connect to online services transmitted via broadband. Therefore, consumers can enjoy features like TV replay (Catch-up TV, Video on Demand) and can access a variety of online services connected to the app, in addition to the rich information services of the existing digital Teletext. HbbTV services can be activated in various ways, the most common method being pressing the button on the remote control. Generally, this service can be operated with existing navigation buttons. (Including the 'OK' button, , , ,) The latest HbbTV specifications support “Adaptive Streaming” on videos through broadband connections, enabling viewers to enjoy the highest quality videos. For more detailed information on HbbTV, visit www.hbbtv.org.

- Some models may not be supported.

To Use HbbTV

→ → **General** → **Programmes** → **HbbTV**

Sets HbbTV to On.
Enjoy a wide variety of content from HbbTV enabled services.

- Without an Internet connection, service may be limited.
- The functionality and quality of the HbbTV service may vary depending on the quality of your broadband connection.
- HbbTV services are not guaranteed to be available for all programmes – only those that your broadcaster choses to support.
- Some models may not be supported.
- When Live Playback is in operation, HbbTV is disabled.
- While using HbbTV service, navigation keys and the **Wheel (OK)** button may be disabled if the Magic Remote’s pointer is activated on the screen. In this case, press the left, right, up and down keys in order to deactivate the pointer. (This only applies to models that support the Magic Remote.)

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 product.

01 Press the ⌂ button on the remote control.

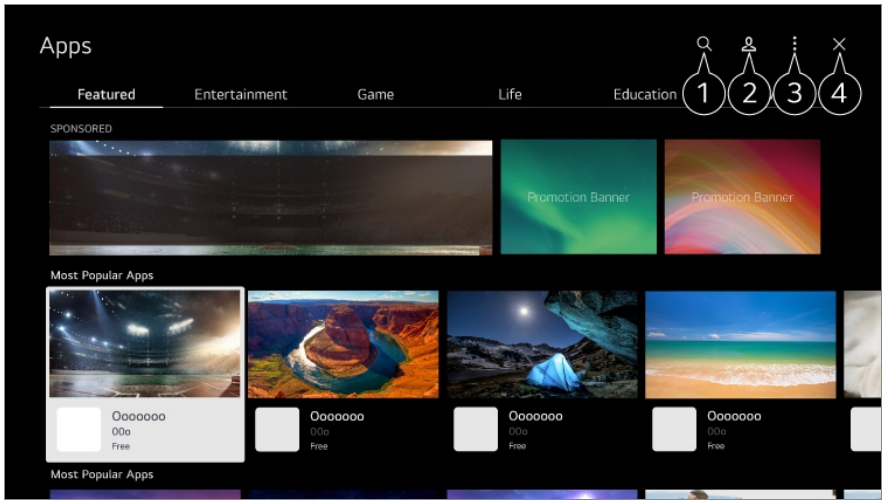
02 Launch **Apps**.

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

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 ••• button on the remote

control and select **Quit App**.
If your remote control does not have a ••• button, press and hold the Yellow button.

- 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 device 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 devices may not be used.
- Exercise caution when in use 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 → → **General** → **System** → **Safety** → **Application Locks**.

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 colour of the Magic Remote changes (e.g., to the).

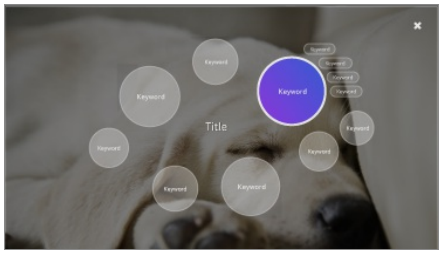
02 Press and hold the **Wheel (OK)** button on the picture if you are watching a broadcast, or on the text if you are using the **Sports** service or **Guide** or **Settings** apps.

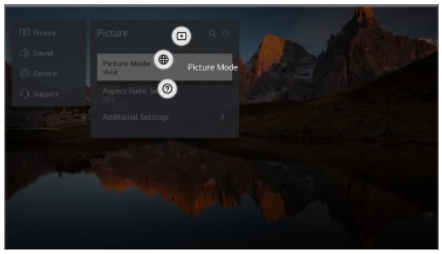
03 On the broadcast screen, keywords associated with the programme appear.
On the text in the app, an icon appears that allows you to go to an item, such as Web Browser or Search.

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.

Content Search

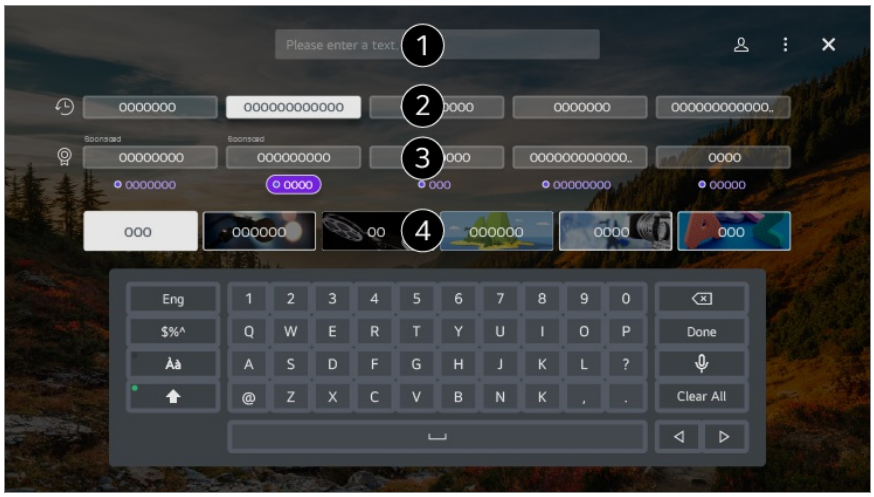
Content Search

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 programme, region, network settings, and whether you have agreed to the terms and conditions.
  The configurable items differ depending on model.

Using Home Office

Using Home Office

Press the ⌂ button on the remote control to launch **Home Office**.
The PC can be remotely operated from the device.

01 Turn on the power of the PC to which you wish to connect.

02 Press the ⌂ button on the remote control to launch **Home Office**.

03 Select **Add Remote PC**. A new PC can be connected.

- The PC to be connected must be powered on, and 'Enable Remote Desktop' must be turned on in the PC settings.
- Up to four devices can be connected to **Add Remote PC**. To add another PC, delete the previously registered PC.
- You can connect only Windows 10 Professional or later or Mac operating systems.
  A Windows user name and password must be set. Login via PIN input is not supported.
- Before connecting, turn on your Mac and make sure screen sharing is enabled in the Mac's Settings → Sharing.



❶ You can use the selected cloud PC service.

❷ You can use it by switching to a connected PC.
✎ : You can edit the connection information.
🗑 : You can delete the connected PC.

❸ A new PC can be connected.

❹ You can use the Internet service provided by the PC on the device.
Selecting ✎ enables you to edit the list.

- Available features may vary depending on the country.

❺ Launch **LG Account**.
For each logged-in account, you can configure a list of remote PCs and Internet services to connect.

❻ You can connect a Bluetooth keyboard or mouse and set whether to use the connected device.

- For connection of a Bluetooth keyboard or mouse, refer to **Settings** → **External Devices** → **Connect Bluetooth Controller** in **User Guide**.

❼ Closes the app.

- Connecting a keyboard and mouse to the device enables smooth operation.
  If the keyboard layout of the keyboard connected to the PC and the keyboard connected to the device are different, certain keys may not work.
- Both the device and PC can be connected only after network connection and settings are set.
- If the device and PC are not connected to the same network, public IP information is required, and port forwarding settings of the router may be required.
- If the connection is restricted by the PC security policy, contact the network security manager.
- Some features or programmes of the PC cannot be used.
- When the power-saving function of the PC is activated, the connection is lost and cannot be reconnected. We recommend disabling the PC power-saving function before use.

Enjoying Games

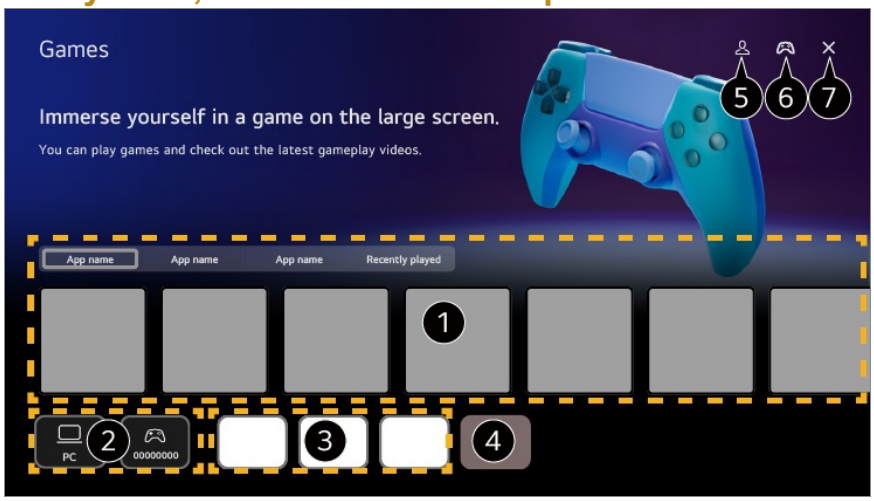
Enjoying Games

You can select a game-related app, a connected game device, or a PC.

Press the ⌂ button on the remote control to launch **Games**.

- Immediately starts, even when you connect a gamepad.
  It is recommended that you use a gamepad that has been tested for compatibility with this devices.
  For compatible Bluetooth gamepads, refer to **Settings** → **External Devices** → **Connect**

Bluetooth Controller in **User Guide**.
For compatible USB gamepads, refer to **How to Operate The Device** → **Using a Keyboard, a Mouse and a Gamepad** in **User Guide**.



❶ Select the desired cloud gaming service. Displays the games recommended by the selected service.
Select **Recently played** to display previously played games.

❷ You can select a connected game device or a PC. Devices that are not connected are not displayed.

❸ You can run an app related to the game.

❹ Enters the **Edit App List** mode.

❺ Launch **LG Account**.

❻ Indicates whether a Bluetooth input device is connected. Redirects to **Connect Bluetooth Controller** when selected.

❼ Closes the app.

- This function may not be available in some countries or models.
- Game devices and PCs connected to the **HDMI IN** are automatically added to the **Games**.

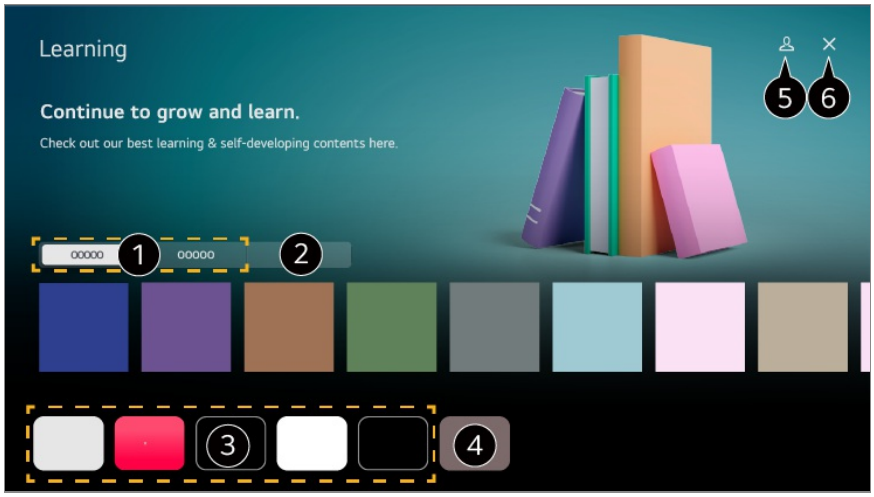
Using the Learning Service

Using the Learning Service

You can choose featured services or relevant content related to education.

01 Press the ⌂ button on the remote control.

02 Select a **Learning** card.



1. Select the desired service. The content provided by the service is shown below.
2. The previously selected items are listed. If the number of items exceeds 16, the oldest are automatically deleted in order.
3. You can run an app related to education.
4. Enters the **Edit App List** mode.
5. Launch **LG Account**.
6. Closes the app.

- You must connect to the network to use the **Learning** service.
- This function may not be available in some countries or models.
- Available features vary depending on the region or service.
- Recommendations or search results may differ from those on a PC or smart device.

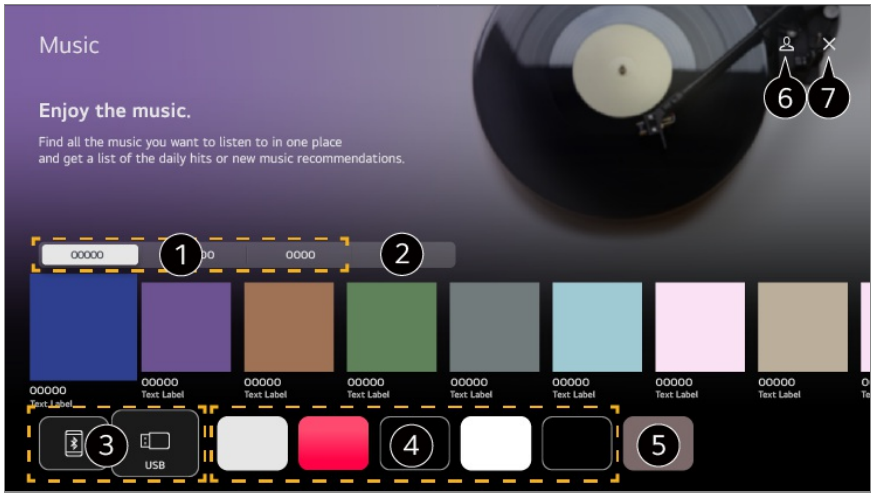
Enjoying Music

Enjoying Music

You can find the music of your preference in one place and get recommendations for popular or the latest songs.

01 Press the ⌂ button on the remote control.

02 Select a **Music** card.



1. Select the desired service. The content provided by the service is shown below.
2. Previously selected music is displayed in a list. If the number of items exceeds 16, the oldest are automatically deleted in order.
3. You can listen to music from a connected USB or smart device. Selecting the desired item will navigate to the corresponding app.
4. Displays music apps available on the device. Selecting the desired item will navigate to the corresponding app.
5. You can edit the app list.
6. Launch **LG Account**.
7. Closes the app.

- This feature may not be available in some countries.
- You must connect to the network to use the **Music** feature.
- Available features vary depending on the region or service.
- Recommendations or search results may differ from those on a PC or smart device.

Using the Sports Service

Using the Sports Service

01 Press the ⌂ button on the remote control.

02 Select a **Sports** card.

03 You can view the list of teams by league and detailed information.
Selecting the desired sports league enables you to check information about that league.

04 Press **My Team** to register your preferred team or player.
Registering a team or player enables you to check live match updates and upcoming match schedules in **My Team**.

- You must log in to your LG account to register your preferred team or player.
- 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.

Changing Notifications Settings for Individual Teams or Players

You can receive notifications about the matches of the teams or players you have registered in **My Team** even while watching a match.

01 In **My Team**, select the team or player you wish to change.

02 In the detailed page, select **Set Alarms**.

Game Start Alarm

Notifies the start of matches for the registered team or player.

Real-time Score Alarm

Notifies the score changes in matches in which the registered team or player participated.

- The frequency of notifications may vary depending on the sport.

Game Result Alarm

Notifies the match results of the registered team or player.

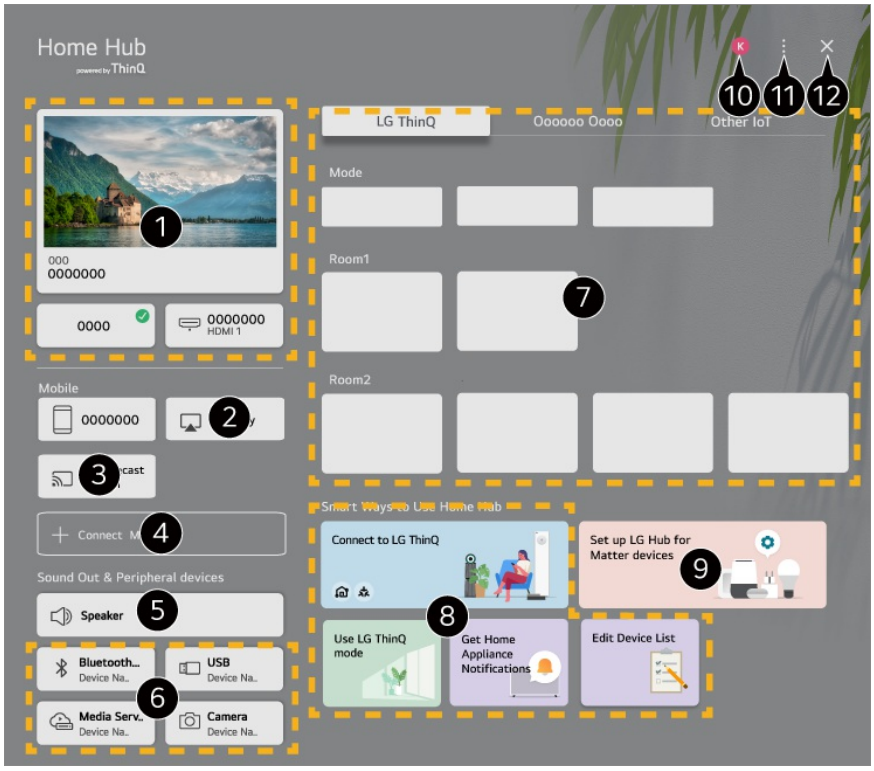
- To turn off notifications for all **Sports**, press the ••• button on the remote control from the **Sports** homepage, and set **Alarm Function** to **Off**.

Connecting External Devices

Using Home Hub

Using Home Hub

You can select or control connected devices (mobile, external devices, Home IoT Devices, etc.).
Run **Home Hub** by pressing the button on the remote control.
You can also press and hold the button on Magic Remote.



❶ You can select broadcasts or external devices connected to the external input port.

❷ Use Apple Home, AirPlay to control your device and watch content from your iPad or Mac on the screen.

- The content and services available by connecting Apple Home and AirPlay are subject to change without notice.

❸ You can receive and watch content like movies, broadcast programs, photos, and websites on any device that supports Chromecast transfer, such as a smartphone or tablet PC.

- This feature may not be available in some countries.

- All devices you want to connect to Chromecast must be connected to the same network.

❹ You can share the screen of your smart device or enjoy its content by connecting the smart device.

❺ The currently selected output speaker is displayed, and you can navigate to the output speaker settings screen.

❻ You can select connected Bluetooth devices, USB storage devices, network server devices, and cameras.

❼ The tabs are categorized by the connected IoT device services. By selecting each tab, you can view the status information of connected IoT devices and perform relevant operations.

❽ 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.

- 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 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 this device. Quit the mobile app to control it from this device.
- IoT devices that can be connected to this device are subject to change without notice.
- Connectable LG ThinQ devices and supported functions may differ from those of mobile devices.

❾ You can learn how to set up **LG Hub** for Matter device control.
Setting this device as **LG Hub** enables you to control Matter devices using the LG ThinQ app, even when you are outside.

- Matter is a global communication standard that allows smart home devices from different manufacturers to work together in one app.

❿ Launch **LG Account**.

⓫ **Edit Inputs** : You can edit the name of the connected device or apply the related settings.
Universal Control Settings : Move to the **Universal Control Settings** app.
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 this device.
Notification : You can turn on or off the notifications on the connected device.
Show Connectable IoT Devices : Shows devices that are available for connection on the screen.
User Guide : Move to the **User Guide** app.
Quit App : Turns off the app from running in the background.

⓬ Closes the app.

- Available settings vary depending on the model or region.

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 Hub** 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.

- Available settings vary depending on the model or region.
- 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 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 this device. Quit the mobile app to control it from this device.
- IoT devices that can be connected to this device are subject to change without notice.
- Connectable LG ThinQ devices and supported functions may differ from those of mobile devices.

Connecting a Smart Devices by the LG ThinQ

Connecting a Smart Devices by the LG ThinQ

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

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

01 Download the LG ThinQ app from the app store of your smart device.

02 Connect the device and smart device to the same network.

03 Run the LG ThinQ app installed on your smart device.

04 Follow the instructions on the LG ThinQ app to connect your smart device.

- When your account information of LG ThinQ is linked to the device, you can manage the IoT devices linked to your account using **Home Hub**.
- 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 device with the LG ThinQ App

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

- 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.

Using the Camera of a Connected Smart Device on the Device

You can use the camera of a smart device connected with LG ThinQ on the device.

- It is recommended that you always update your device to be connected to this device to the latest OS version for a reliable connection.
- Depending on the model or manufacturer of the smart device, the camera may not be connected.
- It is recommended that you connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
- The response rate may vary depending on the user's environment.
- If connection fails repeatedly, turn off the product and the device you want to connect to, then turn them back on and try again.

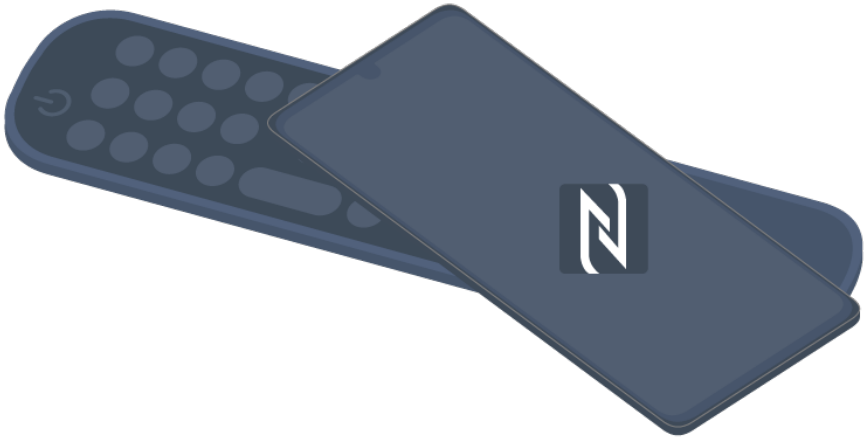
Connecting a Smart Devices by Tagging NFC

Connecting a Smart Devices by Tagging NFC

Near Field Communication (NFC) is a technology that allows you to conveniently send and receive information without any separate settings.
By bringing a smart device near the NFC embedded in the remote control, you can install the LG ThinQ app and connect the device.

01 Turn on NFC in the settings of the smart device.
To use NFC with Android devices, set the NFC option to enable read/write tags in the settings of the smart device.
The NFC settings may vary depending on the device.

02 Turn on the smart device screen and place it near the on the remote control.
The maximum distance for NFC tagging is about 1 cm.



03 Follow the instructions to install the LG ThinQ app on your smart device.

04 Tag your smart device to the remote control again. You can enjoy the contents of the smart device or connect it to the screen through the LG ThinQ app.

- Some countries do not support LG ThinQ app installation with NFC tags. In this case, download the LG ThinQ app from each app store.
- This feature is available for NFC-enabled smart devices only.
- Depending on the smart device, the NFC location may be different. For more information, refer to the user manual of the device.
- Features connected via NFC may differ depending on the smart device.
- This feature is only available if the remote control has an NFC logo.
- Some remote controls have on the back of the remote.

Mirroring the Screen of a Smart Device

Mirroring the Screen of a Smart Device

01 Enable Screen Share mode on the smart device.

02 Your device will be displayed in the list of available devices.

03 Select your device and request connection.

04 Select **Accept** in the connection request popup window.

05 When the connection is complete, the screen of the connected device appears.

- 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** → **External Devices** and select **Delete Connection History**.

- It is recommended that you always update your device to be connected to this device to the latest OS version for a reliable connection.
- Depending on the model or manufacturer of the smart device, the Screen Share feature may not be supported.
- iPad, iPhone, Mac, etc. can be connected through AirPlay. For more information, see **Connecting External Devices** → **Using Home Hub** in **User Guide**.
- It is recommended that you connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
- The response rate may vary depending on the user's environment.
- It differs from devices. For more information on the device you want to connect to, refer to its user guide.
- If connection fails repeatedly, turn off the product and the device you want to connect to, then turn them back on and try again.

Playing Sound from a Smart Device through the Internal Speakers

Playing Sound from a Smart Device through the Internal Speakers

Connect a smart device via Bluetooth to play sound from the smart device through internal speaker.

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

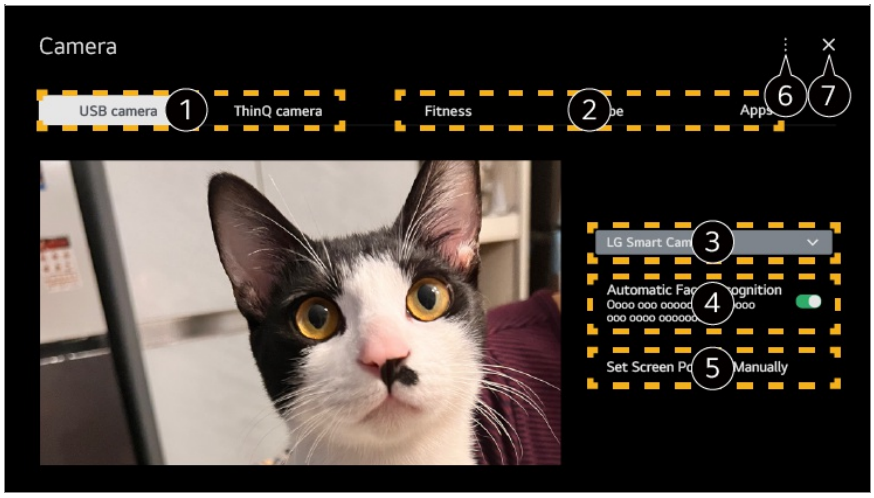
02 This device will be connected to the smart device.

- The device may not be found in the list of smart devices while performing operations such as searching for a broadcast programme or setting up a Bluetooth speaker.
  The configurable items differ depending on model.
- If you connect a smart device to the device via Bluetooth and listen to the sound of the smart device through the internal speaker, the device may not be connected to any other smart device.

Connecting a Camera

Connecting a Camera

By connecting a camera to the device, you can use it for video conferencing, etc.
Press the ⌂ button on the remote control to launch **Camera**.



❶ Select the type of camera to use. The camera settings screen below is changed.

- You can connect USB cameras to the USB input port and use them immediately by selecting **Open Camera**.
- You can use the camera of a smart device connected with LG ThinQ on the device. Please refer to **Connecting External Devices** → **Connecting a Smart Devices by the LG ThinQ** in **User Guide** for more information on the action.

❷ Select the app to use as a camera.

- Available apps and services may vary by country.

❸ You can check the connected camera. If you have connected multiple USB cameras, you

can select the one you wish to use.

❹ Set to **On**. Adjusts the camera to automatically centre a person or object that is recognised as a face on the screen.

- Recognises up to six people.
- It may be recognised as a face, even if it is not a person.
- If the distance between the camera and the subject is too far, face recognition may not work.

❺ You can set the position of the camera and zoom in or out on the screen.

❻ **User Guide** : Move to the **User Guide** app.
Quit App : Turns off the app from running in the background.

❼ Closes the app.

- Depending on the model, some features may not be available.
- 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 this devices. Compatible cameras may change without prior notice.
  Amcrest : AWC496, AWC195-B
  Logitech : BRIO, C920, C920c, C920e, C920s, C920x, C922 Pro, C922x, C925e, C930c, C930e
  LG Smart Cam
- Depending on the installation status of the device, the camera may not be mounted on the device.
- The USB storage device may not work or function properly when a USB hub or extension cable is used.

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.
- Depending on camera performance or the network environment, the image quality may not be clear.
- You can check video conference sites or apps in the Internet service list of **Home Office**. Depending on the circumstances of the service provider, the use of the video conferencing site or app may be subject to suspension or change.

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 function** → **Using Multi View** in **User Guide**.

- This feature is available only on models that support the **Multi View** feature.
- Depending on the model, some features may not be available.

Connecting USB Storage Devices

Connecting USB Storage Devices

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

Tips for Using a USB Storage Device

- A USB storage device that has a built-in automatic recognition programme or uses its own driver might not be recognisable.
- 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 recognised 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 5 V 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. See the owner's manual for the USB HDD for more information.
- Data on a USB storage device may be damaged, so 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 this device or storage device.

- When you connect a USB storage device of a file system not supported by this device 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 Hub** by pressing the button on the remote control. Select the connected USB from **Home Hub** 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 services such as the saving and retrieving of thumbnail images.

Sharing PC Content

Watch content saved in your PC on the product

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

Browse the content on your PC to watch on the screen (Windows 10/Windows 11)

01 Connect your device 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 device you want to watch from the displayed list, and playback will start on that device.

- Even when multiple devices are connected, the selected file is only played through 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 device (Windows 10/Windows 11)

01 Connect your device 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 Hub** app on the device, 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 Attention of Content Share

- Check your network settings if the content share option does not work properly.
- It is recommended that you 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 devices 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 this device, 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 on the encoding, some streams may not play in content sharing mode.

Mirroring PC Screen

Mirroring PC Screen

Connect Wireless (Windows 10/Windows 11)

01 Click the Notification Centre icon on the taskbar on the PC screen and select Connect.

02 Select the device you want to connect to and request the connection.

03 After the connection is established, the device will display the screen of the connected PC.

- It is recommended that you always update your device to be connected to this device to the latest OS version for a reliable connection.
- 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 this device.
- 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 on the user's environment.
- It differs from Windows version. For more information on the device you want to connect to, refer to its user guide.
- If connection fails repeatedly, turn off the product and the device you want to connect to, then turn them back on and try again.

Connect Wired

01 Connect your PC to the device using an HDMI cable.

02 Switch the current input source to the port where the HDMI cable is connected in the ⌂ → **Home Hub**.

03 After the connection is established, the device will display the screen of the connected PC.

- If there is a problem with your connection, refer to **Troubleshooting** → **Troubleshooting Device Connection Issues** in **User Guide**.

Making the Most of Smart function

Using the Room to Room Share

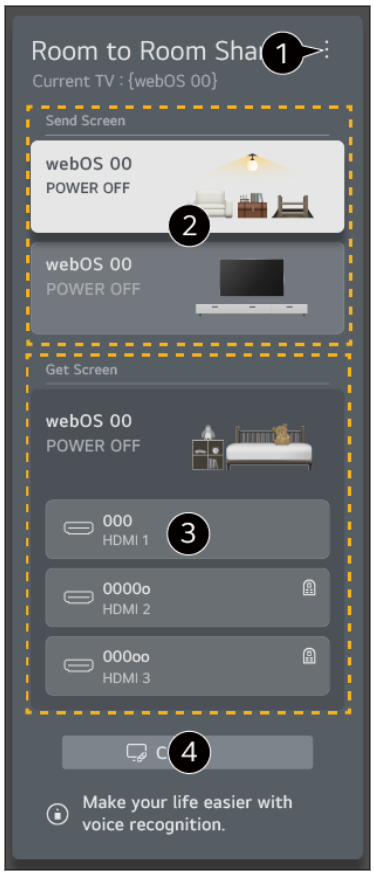
Using the Room to Room Share

By connecting multiple devices connected to the same network, you can send video from the device you are watching to another device or receive video from other devices.

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 Launch **Options**.

❷ You can select a device on which to continue watching the current screen.

❸ You can select a screen to retrieve.

❹ You can additionally connect a new device.

- The **Room to Room Share** feature may be discontinued without notice.
- 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 device.

- The operation may not be smooth, depending on the network settings or environment.
  The devices you wish to connect to must be connected to the same network.
  If the feature does not work properly, please check the network settings and WOL settings of the router.
  Depending on the performance of the router, the image quality or sound quality of the transmitted video may deteriorate.
  A wired network connection is recommended.
- The image quality or sound quality of the transmitted video may be lower than the original video.
- When connecting with the LG ThinQ app in **Connect TV**, all devices to be used with **Room to Room Share** must be registered to the same LG ThinQ account.
- You can transmit the **Live TV** or the display of a device connected via HDMI.
  It is not possible to transmit the display of an HDMI-connected device that cannot play video.
  It can only be viewed on the device that has received the screen.
  Received broadcasts may have restrictions on viewing.
  For some broadcasts, you cannot send or bring up a screen.
  Videos from some signals cannot be sent or received. Please change the video output signal.
- The device that received the video turns the screen on automatically, and the device that sent the video turns the screen off automatically.

Using the Web Browser

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 : Splits the device screen to display. You can browse web pages while watching this device.
History : You can view and delete the website visit history.
Add to bookmarks : You can add the website you are currently viewing to your Favourites.
Add shortcut to the Home screen : You can add the website you are currently viewing as a shortcut to your Home.
Add to Home Office Shortcut : You can add the website you are currently viewing as a shortcut to **Home Office**.
Bookmarks : You can view and delete the list of websites you have added to your Favourites.
Settings : You can change the web browser settings.
User Guide : Launch **User Guide**.
Quit App : Turns off the app from running in the background.

- The configurable items differ depending on model.

❺ Closes the app.

- The **Web Browser** app is a browser for this device, 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 device runs out of memory.
  · The fonts provided on the device are used. Depending on the content, characters may look different from PC or mobile browsers.
  · 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 **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 information is automatically sent to the web browser development team at the manufacturer's 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 device 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 optimised 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.

Using the Media Player

Using the Media Player

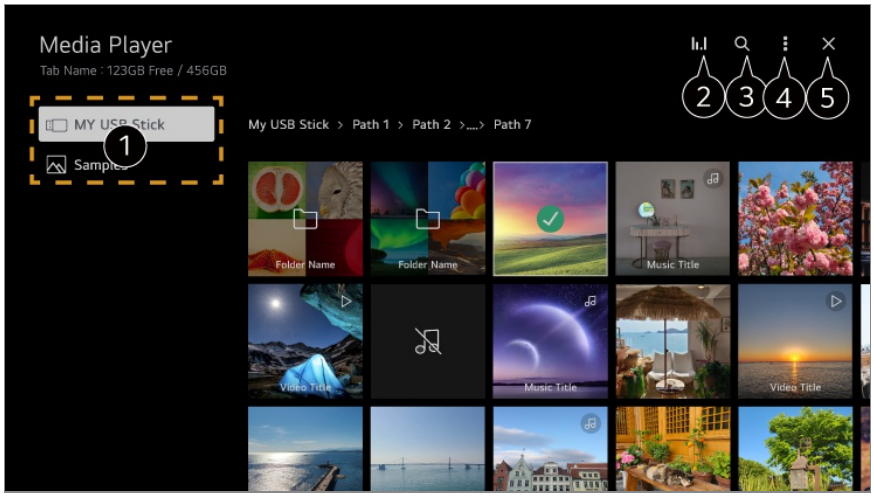
You can search and view photos or play videos and songs with the **Media Player** app.

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 this device.

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

❸ Launch **Search**.

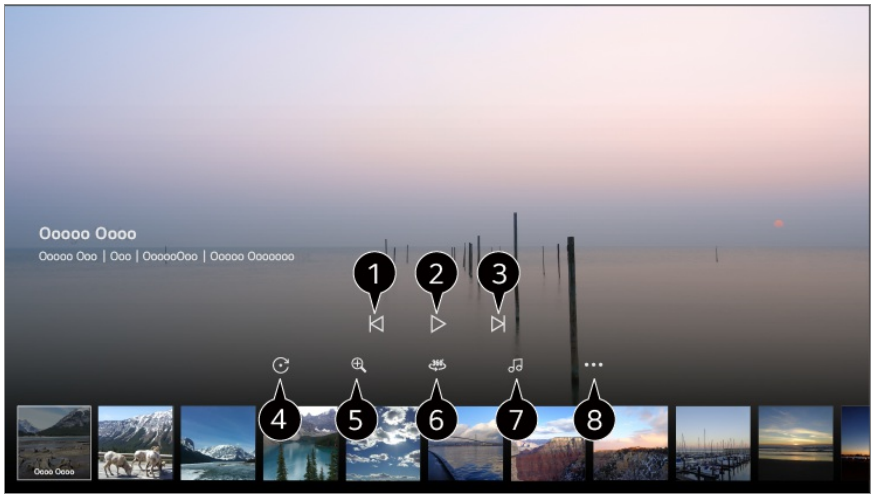
❹ **View Type** : Selects a content display mode.
Sort : Select the option to sort content.
Group : If you filter by **Music**, you can group content into categories such as **Artist** and **Album**.
Selection Play : You can select and play multiple pieces of content.
Copy : You can copy content to a USB storage device.
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

You can select a photo from the **Media Player** app and view the photo.
To use more features, press the **Wheel (OK)** button on the remote control and select on the screen.



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.

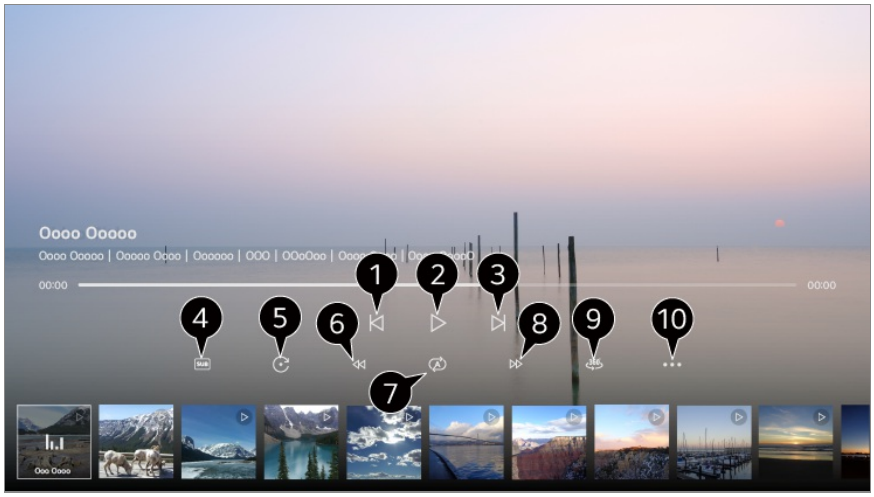
❼ Plays a music file selected from the storage device as background music.

❽ Sets the photo size or changes the speed or effects for the slideshow.

- Some models may not be supported.

Playing Videos

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.
To use more features, press the **Wheel (OK)** button on the remote control and select ⌄ on the screen.



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 choose settings related to repeated playback of the video.

❽ Fast-forwards the video at higher speeds.

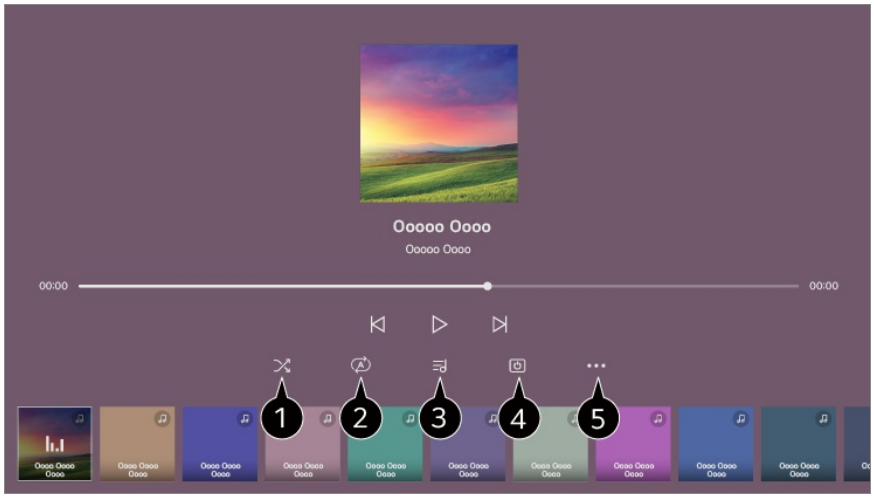
❾ 360-degree videos can be viewed in 360 degrees.

- 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.
Show the progress bar when the video starts : You can set to hide the playback bar when you start playing the video.
User Guide : Move to the **User Guide** app.
Quit App : Turns off the app from running in the background.

Listening to Music

You can select a song from the **Media Player** app and play the song.
To use more features, press the **Wheel (OK)** button on the remote control and select ⌄ on the screen.



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.

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.
- To disable this feature in Live Plus, go to → → **General** → **System** → **Additional Settings** and set **Live Promotion** to **Off**. 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 provided for only selected content with contracted partners.

Notifications

Using Notifications

You can check or delete notifications received from webOS apps or services. For notifications that support shortcuts, you can go directly to that app or website.

01 Press the button on the remote control.

02 Select on the screen.

03 You can check the details by selecting the desired item. If it supports shortcuts, you can launch the app.

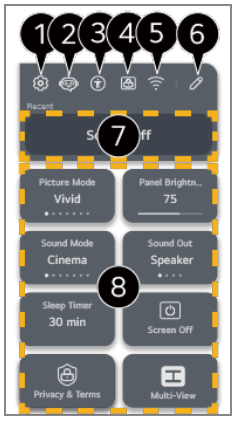
- Press the button on the remote control.
  Mark all as read : Changes all notifications to 'Read'.
  Delete : You can delete notifications.
  Notification Settings : You can set whether to receive notifications for each app. If it is set to **Off**, any notifications previously received from the app will also be deleted. For external service apps, you can check notifications in **Notification Settings** after agreeing to receive notifications from the app.
  User Guide : Move to the **User Guide** app.

Settings

Quick Settings

To Use Setting Function Quickly

You can quickly and easily use frequently used settings or functions.
Press the ⚙ button on the remote control.



❶ You can set more options.

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

❷ You can resolve issues with the device by chatting with the Chatbot.

❸ Directs to the **Accessibility** settings.

❹ Directs to the **Safety** settings.

❺ Directs to the **Network** settings.

❻ You can add/delete items in **Quick Settings** and change the order.

❼ The most recently selected item in **Quick Settings** is displayed.

❽ You can change the settings for screen, sound, etc. or run functions.

- You can edit it to any item you wish.

- The configurable items differ depending on 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 Optimiser** is changed to **On**, and **Picture** / **Sound** → **Select Mode** is changed to **Game Optimiser**. If Game Dashboard does not display, please check each setting.



❶ You can optimise the screen depending on the genre of the game.

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

- The items displayed may vary by model.

❸ Launch **User Guide**.

❹ **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 Colour : You can change the colour of the menu.
Game Optimiser : Directs to the **Game Optimiser** settings. To see the details, click the **Settings** → **Game Optimiser** 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.

- There may be restrictions on running **Multi View** in some contents.

❺ The order of the items displayed on the **Game Dashboard** can be changed or replaced with other items.

- The configurable items differ depending on 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 optimised for its characteristics.

- The configurable items differ depending on model.
- Depending on 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.
- **Select Mode** change may modify **Energy Saving** and **Motion Eye Care** settings and it can affect energy consumption. You can change the settings in **General** → **Energy Saving** and **Picture** → **Advanced Settings** → **Brightness** → **Motion Eye Care**.

Personalised Picture

It is set to the analysed image quality using artificial intelligence deep learning technology.

Vivid

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

Standard

Displays the picture with natural contrast, brightness and sharpness levels.
If you select this during an HDR signal, a screen that can adequately show the expressiveness and brightness of HDR images is displayed in a normal viewing environment.

Eco / Auto Power Save

The Energy Saver feature changes settings on the device to reduce power consumption.

- The configurable items differ depending on model.

Cinema Home

The screen appears as a bright and clear screen than the **Cinema**.

Cinema

Suitable picture for movies.
If you select this during an HDR signal, a screen optimised for HDR video signals is displayed.

Sports / Football / Cricket

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 Optimiser

Suitable picture for gameplay.

FILMMAKER MODE

Provides optimised 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 colour 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
  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.

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 on 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 on 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 the screen.

- 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 the model, there may not be a **Panel Brightness** setting option.

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** → **Energy Saving** → **Energy Saving Step** and set to **Off** or **Minimum**.
- Depending on the model, there may not be a **OLED Pixel Brightness** setting option.

Adjust Contrast

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

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 sides of the screen for optimal results depending on the brightness of the picture.

Dynamic Tone Mapping

Set to **On**. Suitable contrast settings based on image brightness of the HDR content.
Set to **Off**. Setting **Professional** to **On** enables you to fine-tune the expressiveness of HDR content.

Expression Enhancer

It is a technology to improve the contrast and expression of foreground, background and object by analysing the information of the HDR image.

Peak Brightness

Adjusts the maximum brightness of the screen.

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 colour range of the external input device.

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

LED Local Dimming

Maximises the contrast ratio by making the bright side of the screen brighter and the dark side 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 to reduce eyestrain.

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

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

Adjusting the Colour of an Picture

→ → **Picture** → **Advanced Settings** → **Colour**

Colour Depth

Tones down or up the colours displayed on the screen. The closer to 100, the deeper the colour.

Tint

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

Colour Gamut

Selects the range of Colours to display.

Native

Displays more vivid and richer colour.

Auto Detect

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

Dynamic

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

Adobe RGB

Sets the **Colour 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 colours (**Red**/**Green**/**Blue**/**Cyan**/**Magenta**/**Yellow**).
For normal images, adjustments may not result in noticeable colour changes.

Colour Adjustment

Adjusts the Colour and saturation of the picture to make the image more Colourful and lively.

Select Colour

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 colour to be reproduced more accurately based on white allows you to adjust the overall colour tone of the screen to your preference.

Colour Temperature

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

Method

This method is used for fine-tuning the colour temperature setting. You can control the colour 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 colour 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 colour 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.

- The name of the **Signal Level(%)** may vary depending on the signal.

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 colour 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 on the input signal or the selected picture mode, the available options may

differ.

- The configurable items differ depending on 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.

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

Optimise display for movies.

TruMotion

Suitable image quality for 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 theatre.
- **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** / **Motion Pro** : You can make your video clearer by eliminating afterimages.

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

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

Applying the Current Picture Settings to All Inputs

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

The settings you specify only apply 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 colour temperature will be adjusted to reduce eye fatigue.

On

The colour temperature of your 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 optimised sound and virtual surround in real time.

Standard

Optimises the sound for all types of content.

Cinema

Optimises the sound for cinemas.

Clear Voice / Clear Voice Pro

Boosts voice clarity.

Sports / Football / Cricket

Optimises the sound for sports games.

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

Music

Optimises the sound for music.

Game Optimiser

Optimises the sound for gameplay.

- The configurable items differ depending on model.
- If you connect an LG Soundbar that supports **TV Sound Mode Share** to the **HDMI (eARC/ARC)** terminal, you can select Sound Mode provided by the LG Soundbar on the device.
  If → → **Sound** → **Advanced Settings** → **TV Sound Mode Share** is set to **On**, the device's Sound Mode is output to the LG Soundbar.

Use TV Speaker

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

Audio is played through the device's internal speakers.

Use Wireless Speaker

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

Bluetooth Device

Wirelessly connect a Bluetooth audio device to enjoy the 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 the devices that can be connected to connect any one of them.
- For some Bluetooth devices, the device volume can be controlled by selecting from the connection list.
- If the LG Sound Sync device was connected most recently, it will attempt to connect automatically when the device is powered 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 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 unsynchronised 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 this device;
  - there are obstacles between the Bluetooth device and this device; or
  - used together with radio equipment such as a microwave oven or wireless LAN

- If the **Picture** → **Select Mode** is set to **Game Optimiser** 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 (eARC/ARC)** port)

LG WOWCAST Device

You can enjoy rich sound without degraded quality, even if you wirelessly connect a soundbar that supports LG WOWCAST.

- Some models may not be supported.
- It is recommended to connect to a wireless network using 5 GHz. The network does not operate on 6 GHz or DFS channels. If you share your screen with smart devices or connect Wi-Fi Direct when connected to a 2.4 GHz network, LG WOWCAST will disconnect.
- If you connect the LG WOWCAST dongle, the dongle is connected first.

WiSA Speakers

You can wirelessly connect the device 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 authorised products, check on www.wisaassociation.org.

Mobile Device

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

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 device's sound in richer quality and greater convenience.

- Only available for models with an optical digital port.
- To adjust the volume of a soundbar that supports LG Sound Sync with this device's remote control, set the → → **Sound** → **Advanced Settings** → **LG Sound Sync** to **On**.

HDMI(ARC) Device

Sound can be output through an external audio device connected via a **HDMI (eARC/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 device 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 the multiple devices simultaneously.

- The configurable items differ depending on model.

Bluetooth Device + TV Speaker

Both the internal speaker of the device 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 synchronise the device'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 Optimiser**, 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** → **Listen Together with Hearing Aid** to **Bluetooth Device**. 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** → **Listen Together with Hearing Aid** is set to **Bluetooth Device**, 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 unsynchronised video and audio.

LG WOWCAST Device + TV Speaker

Simultaneously outputs the sound through the device's internal speakers and a soundbar that supports LG WOWCAST.
You can select this option if you connect a soundbar that supports LG WOWCAST.

Optical Out Device + TV Speaker

Audio is played through the device's internal speakers and the audio device connected to the digital optical audio output port simultaneously.

HDMI(ARC) Device + TV Speaker

Connecting LG Soundbar with the WOW Orchestra function

The internal speakers and soundbar can simultaneously output sound for a richer audio experience.
If you connect the LG Soundbar to the **HDMI (eARC/ARC)** terminal, it will be connected automatically.

- Set **Sound Out** to **Use TV Speaker** or **Use Wired Speaker** to disconnect.
- The codec output with a device may differ from input signals.

Connecting a hearing aid

You can adjust the volume of the internal speakers and hearing aid separately.
Connect the transmitter of the hearing aid to the **HDMI (eARC/ARC)** terminal.
Go to → → **General** → **Accessibility** → **Listen Together with Hearing Aid** and choose **HDMI(ARC) Device**.

- To adjust the volume of the connected hearing aid on the device, press next to the **HDMI(ARC) Device + TV Speaker**.

Wired Headphones + TV Speaker

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

- If you connect the wired headphones while the device is powered on, it automatically detects the wired headphones and redirects audio through them.

Balance

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

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

- This setting is only available for internal device 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 internal speakers of the device or LG Soundbars that support the **TV Sound Mode Share**.

Applying the Current Sound Settings to All Inputs

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

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

Initialising 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 internal speakers of the device or LG Soundbars that support the **TV Sound Mode Share**.

Installation Type

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

This mode optimises the sound based on the device setup.

Stand

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

Wall-mounted

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

- This setting is only available for internal device 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 internal speakers of the device or LG Soundbars that support the **TV Sound Mode Share**.

DTV Audio Setting

→ → **Sound** → **Advanced Settings** → **DTV Audio Setting**

When different audio types exist in an input signal, this function allows you to select the audio type you want.

If set to **Auto** the search order is AC4 → HE-AAC → Dolby Digital Plus → Dolby Digital → MPEG and output is produced in the first Audio Format found.

- The following search order may change depending on the country : AC4 → HE-AAC → Dolby Digital Plus → Dolby Digital → MPEG.
- If the selected Audio Format is not supported, another Audio Format may be used for output.
- Some models may not be supported.

Adjusting AV Synchronisation

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

Adjusts the Synchronisation of the sound from the speaker that is working.
As the setting value increases, voice output becomes slower than the default.

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 this device 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 synchronised, set it to **PCM**.

TV Sound Mode Share

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

Set to **On**.
Play the sound mode applied to the device's internal speakers on the LG Soundbar.

- An LG Soundbar that supports **TV Sound Mode Share** must be connected to **HDMI (eARC/ARC)** in order to set it up.

LG Sound Sync

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

Connect an LG Sound Sync device to the optical digital output 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 device 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 device 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	(Optical / HDMI ARC) Dolby Digital (HDMI eARC) Dolby Digital / Dolby Digital Plus / Dolby MAT
	Dolby Digital Plus / Atmos	(Optical) Dolby Digital (HDMI ARC) Dolby Digital / Dolby Digital Plus / Atmos (HDMI eARC) Dolby Digital / Dolby Digital Plus / Dolby MAT / Atmos
	Dolby TrueHD (HDMI only)	(Optical) Dolby Digital (HDMI ARC) Dolby Digital / Dolby Digital Plus / Atmos (HDMI eARC) Dolby Digital / Dolby Digital Plus / Dolby TrueHD / Dolby MAT / Atmos
	HE-AAC / AAC	(Optical) Dolby Digital (HDMI ARC) Dolby Digital / Dolby Digital Plus (HDMI eARC) Dolby Digital / Dolby Digital Plus / Dolby MAT

DTS / DTS Express / DTS-HD MA	(Optical / HDMI ARC) DTS (HDMI eARC) DTS / DTS-HD MA
DTS-HD	(Optical / HDMI ARC) DTS (HDMI eARC) DTS / DTS-HD / DTS-HD MA
DTS:X	(Optical / HDMI ARC) DTS (HDMI eARC) DTS / DTS-HD MA / DTS:X

- Dolby TrueHD , HDMI eARC , Dolby Atmos , DTS : 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 the device sound with higher quality than ARC through a connected audio device.

01 Connect an audio device that supports eARC to the **HDMI (eARC/ARC)** port.

02 Go to **Sound Out** → **Use Wired Speaker** and choose **HDMI(ARC) Device**.

03 Set **eARC Support** to **On**.

Accessibility

Learn Remote Control

→ **Accessibility** → **Learn Remote Control**

→ → **General** → **Accessibility** → **Learn Remote Control**

Press a button on the remote control following the on-screen instructions to get information about the button.
Pressing the ⮌ button twice in succession ends **Learn Remote Control**.
Press the ⏻ button to turn off the device, then products with **Always Ready** enter **Always Ready** if **Always Ready** is turned on.

Device Power Sound

⌂ → **Accessibility** → **Vision Features** → **Device Power Sound**

⚙ → ⚙ → **General** → **Accessibility** → **Device Power Sound**

Turns the sound effect when turning the device power on or off.

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

Listen Together with Hearing Aid

⌂ → **Accessibility** → **Hearing Features** → **Listen Together with Hearing Aid**

⚙ → ⚙ → **General** → **Accessibility** → **Listen Together with Hearing Aid**

A hearing aid can be connected to Bluetooth or **HDMI (eARC/ARC)** to output sound simultaneously with the internal speakers and the hearing aid.

Off

Turns off the **Listen Together with Hearing Aid**.

Bluetooth Device

Sound Out changes to **Bluetooth Device + TV Speaker**. The existing Bluetooth connection history will then be deleted.

HDMI(ARC) Device

Sound Out changes to **HDMI(ARC) Device + TV Speaker**.

- If you connect a device other than a hearing aid, this feature may not work properly.
- 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**.

Closed Caption Settings

→ **Accessibility** → **Hearing Features** → **Subtitles**

→ → **General** → **Accessibility** → **Subtitles**

If a broadcaster provides content with captions, you can see them.
Change **Closed Caption** to **On** and select subtitle setting.

- Some models may not be supported.
- The configurable items differ depending on model.

To Set the Subtitle Language

Use the Subtitle function when two or more subtitle languages are broadcast.

- In Digital Mode Only
- If the selected subtitle language is not supported by the broadcast, the default setting of the subtitle language will be output.

Menu for the Visually Impaired

→ **Accessibility** → **Vision Features** → **Audio Description**

→ → **General** → **Accessibility** → **Audio Description**

The contents on the screen will be described with voice for visually impaired viewers. You can use this function if the broadcasting company supports **Audio Description** for the visually impaired.

- Some models may not be supported.

Audio Type

→ **Accessibility** → **Vision Features** → **Audio Type**

→ → **General** → **Accessibility** → **Audio Type**

Audio commentary or subtitles are provided for those who are hard of hearing or visually impaired.

Normal

Selects default Audio.

Audio Description

For the visually impaired Selects the preferred default Audio combined with Visual Impaired Audio.

Spoken Subtitle

For the visually impaired, selects the preferred Visual Impaired Audio only.

Any Supplementary Audio

Displays all supplementary audio.

- Some models may not be supported.

Additional Audio Function

→ **Accessibility** → **Vision Features** → **Additional Audio Selection**

→ → **General** → **Accessibility** → **Additional Audio Selection**

Audio commentary or subtitles are provided for those who are hard of hearing or visually impaired.

None

Selects default Audio.

Audio Description

For the visually impaired Selects the preferred default Audio combined with Visual Impaired Audio.

Clean Audio

For the hearing-impaired Selects the preferred Clean Effect and Hearing Impaired Audio.

Spoken Subtitle

For the visually impaired, selects the preferred Visual Impaired Audio only.

- Some models may not be supported.

To Set Hard of Hearing

→ **Accessibility** → **Hearing Features** → **Hard of Hearing**

→ → **General** → **Accessibility** → **Hard of Hearing**

01 Press the button on the remote control.

02 Select → **General** → **Accessibility**.

03 Set **Subtitles** to **On**.

04 Set **Hard of Hearing** to **On**.
A caption will be provided for the hearing-impaired.

- When the **Hard of Hearing** is turned **On**, it will be prioritised over the general captions.
- Some models may not be supported.

Changing the Menu to High-Contrast Screen

→ **Accessibility** → **Vision Features** → **High Contrast**

→ → **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 colours to highlight the contrast between the light and dark areas.

Greyscale

→ **Accessibility** → **Vision Features** → **Greyscale**

→ → **General** → **Accessibility** → **Greyscale**

Change the colour of the menu on the video and screen to black and white tone for higher clarity. Set to **On**.

Invert Colours

→ **Accessibility** → **Vision Features** → **Invert Colours**

→ → **General** → **Accessibility** → **Invert Colours**

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

Always Ready

Always Ready

→ → **General** → **Always Ready**

Set **Enable the function** to **On**.
Turning off the device switches the mode 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 internal speaker.
You can also turn on the device with the voice recognition feature of an external AI speaker connected to the device.
Selecting **Use Always Ready without wallpaper** enables **Always Ready** to be used without displaying the wallpaper.
For more information, see **Getting Started with webOS** → **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 Brightness Settings

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

Set to **On**. Artificial intelligence (AI) effectively expresses darker areas based on the surrounding environment and content characteristics of the device.

AI Sound / AI Sound Pro

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

Based on artificial intelligence, it analyses the characteristics of content in real time to provide optimal sound effects and a clear voice, and realises realistic 3D sound with the latest sound technology.

- This setting only applies to internal speakers of the device or LG Soundbars that support the **TV Sound Mode Share**.
- When this feature is set to **On**, Sound Mode is changed to **AI Sound**/**AI Sound Pro**.

- The configurable items differ depending on model.

AI Acoustic Tuning

→ → General → AI Service → AI Acoustic Tuning

With the **AI Acoustic Tuning** feature, you can detect the space where your device is installed using your Magic Remote's microphone to optimise the audio of your device for your environment.
Select **Start New Sound Tuning** to measure the space in which the device 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 device'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 metres.
- This function may not work properly

  - The background noise is too large over 40 dBA.
  - If the distance between the device and the Magic Remote is more than 5 m

Viewing Voice Recognition Help

→ → General → AI Service → Voice Recognition Help

It shows a list of voice commands the device 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.

Smart Tips

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

Smart Tips in Settings

When configuring detailed settings, you can also receive recommendations for related features.

- The configurable items differ depending on model.

Game Optimiser

Game Optimiser

→ → **General** → **Game Optimiser**

Sets up the features for an immersive experience when you play with a video game console.
Selecting **On** turns on the related settings.

- It only works with HDMI inputs.
- If you set → → **Picture**/**Sound** → **Select Mode** to a mode other than **Game Optimiser**, some items in **Game Optimiser** cannot be set.
- If you turn this feature **On**, you cannot change some video settings items.
- When **Game Optimiser** 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 on model.

Game

Game Genre

You can optimise 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)

Minimise the input delay according to the image signal.

Game Dashboard

Set to **On**. Press the ⚙ button on the remote control during a game to display the **Game Dashboard**. Set to **Off** to display as **Quick Settings** during a game.

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

VRR

This reduces screen cracking and video lagging during game play.

VRR & G-Sync

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

AMD FreeSync Premium

Set to **On**. AMD's display adaptive sync technology adjusts the injection rate to minimise screen breaks and stuttering.

- The LED/QNED model can be set up as follows:
  High : The range of supported refresh rates is 90 Hz - 120 Hz.
  Wide : The range of supported refresh rates is 48 Hz - 120 Hz.
  Screen flickering may occur in some gaming environments. In this case, set it to **High**.

144Hz Mode

The screen is displayed more smoothly when gaming.

- This only operates for games or PC inputs supporting 144 Hz.

ALLM

The device will automatically switch to low-latency mode if this feature is turned on while playing games. In this case, some picture settings on the device may not be applied.

- The device connected should support this service.

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 Colour

Menu colour of **Game Optimiser** and **Game Dashboard** can be changed.

User Guide

Move to the **User Guide** app.

Picture

Black Stabiliser

You can fine-tune dark areas.

White Stabiliser

You can fine-tune light areas.

Game Contrast

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

Game Black Level

Adjusts the overall screen brightness.

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

Adjust Game Sharpness

Adjusts the sharpness of the image.

Game Colour Depth

Tones down or up the colours 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

Supports resolutions with a screen ratio of **21:9** or **32:9**.

- It only works when the game or PC input supports a 21:9 or 32:9 screen ratio.
- To display the screen in the selected screen ratio, the resolution must be set up as shown below to match the desired screen ratio, even on the connected PC.

    - **21:9** : 3840 × 1600 (60 Hz signals only), 2560 × 1080
    - **32:9** : 3840 × 1080

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**.

Sound

AI Game Sound

Optimises the sound for gameplay.

- This setting only applies to internal speakers of the device or LG Soundbars that support the **TV Sound Mode Share**.

Game Equaliser

The sound can be adjusted by increasing or decreasing certain frequency bands of the voice signal.

Dolby Atmos

The Dolby Atmos effect applies to the Dolby Atmos content.
For more information on **Dolby Atmos**, refer to **Settings** → **Sound** → **Dolby Atmos** in the **User Guide**.

Sound Out

You can select an audio device that outputs sound from the device.

- If you have selected a USB-type audio device when playing games on a PC, change the audio device to **Use in PC** in the **Switching Hub**. Sound lag can be minimized. Some models may not be supported.

Advanced Sound Settings

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

Family Settings

Usage Limit Setting

→ → **General** → **Family Settings** → **Usage Limit Setting**

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

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

- Some models may not be supported.
- Using **Eye Care Mode** sets **Picture** → **Advanced Settings** → **Reduce Blue light** to **On**.

Volume Limit Mode

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

Set **Enable the 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 (eARC/ARC)**/headphone port.

Screen Time Report

→ → **General** → **Family Settings** → **Screen Time Report**

You can check your device usage time.

Programmes

Automatically Setting Up Programme

→ → **General** → **Programmes** → **Programme Tuning & Settings** → **Auto Tuning**

Automatically tunes the programmes.

01 Select the country in which the device is used. programme settings vary depending on the selected country.

02 Initiate **Auto Tuning**.

03 Select programme tuning modes.

04 Set Auto Tuning following screen instructions.

- If Input Source is not connected properly, programme registration may not work.
- **Auto Tuning** only finds programmes that are currently broadcasting.
- If **Programme Locks** is turned on, a pop-up window will appear asking for password.

Set Cable Setting

When searching for programmes using FULL setting it can take a long time.
The following values are needed in order to search all available programmes quickly and correctly. The commonly used values are provided as “default”.
The configurable items differ depending on **Type**.

Frequency (kHz)

Enter a user-defined frequency.

Symbol Rate (kS/s)

Speed at which a device such as modem sends symbols to a programme.

Modulation

Loading of audio or video signals onto carrier.

Network ID

Unique identifier allocated for each user.

Start Frequency (kHz)

Enter a user-defined start frequency range.

End Frequency (kHz)

Enter a user-defined end frequency range.

Set Satellite Setting

You can add/delete/set the satellite you want.

- This function only works when the programme mode is satellite.

Satellite

Select your desired Satellite.

LNB Frequency

Select one value from 9750/10600, 9750/10750, 9750, 10600, 10750, 11300, 5150, MDU1, MDU2, MDU3, MDU4, MDU5. If you select 9750/10600, 9750/10750(MHz), **22kHz Tone** is disabled. If you cannot find the LNB frequency value from the list, select User and manually enter the frequency.

- Some models may not be supported.

Transponder

Select the transponder you want to tune.

22kHz Tone

When using 22kHz Tone switch, select 22kHz or 0 Hz. If you use **22kHz Tone**, Unicable and Motor Type are disabled.

LNB Power

To enable the power supply for the LNB, select **On**. If you select **Off**, **Motor Type** is disabled.

DiSEqC

When using DiSEqC, select one option from A~D/ToneA~B. If you use **DiSEqC**, Unicable and Motor Type are disabled.

Unicable

Select On to use Unicable and set the Unicable in the **Unicable Settings** menu. When Unicable is enabled, **22kHz Tone**, **DiSEqC**, **Motor Type** are disabled.

Motor Type

Select Motor Type to use Motor and set the Motor in the Motor Setting menu. When Motor is enabled, **22kHz Tone**, **DiSEqC**, **Unicable** are disabled.

- If you set satellite to others, you must add a transponder using Transponder Edit.
- When selecting 22kHz Tone and DiSEqC, you must connect them in the same position as displayed on the OSD.
- If you delete a Satellite, all programmes stored in the Satellite are deleted.

Set Motor Setting

DiSEqC 1.2 : Control motor to change satellite dish position.

Drive Direction

Select the direction in which you want to move the motor.

Drive Mode

Two modes are available : Step and Continuous.

- Step : The motor moves based on the value you enter (from 1 to 128).
- **Continuous** : The motor moves continuously until you press the Stop.

Test Transponder

Select the test Transponder you want to tune.

Set Limit

Set the motor movement to east or west to have the motor move only within the direction set.

- On : You can limit the movement to the current direction by selecting the West/East.
- Off : You can cancel the limit you set.

Go to 0

You can move the motor to Zero.

USALS : Set your current location (Longitude/Latitude).

To Use Manual Programme Tuning

→ → **General** → **Programmes** → **Programme Tuning** (**Programme Tuning & Settings**) → **Manual Tuning**

This function is for manually searching and saving programmes.
For digital broadcasting, signal strength and signal quality can be checked.

Programme List Update

→ → **General** → **Programmes** → **Programme Tuning & Settings** → **Programme List Update**

This feature updates the changed programme list information depending on the broadcasting situation or satellite environment of the country in which the device is installed.
Updates the programme list when the device is turned off.
After updates, the Programme List may be changed. If not want, select **Off**.

- Some models may not be supported.

To Use the Signal Test

→ → **General** → **Programmes** → **Programme Tuning** (**Programme Tuning & Settings**) → **Signal Test**

Shows the MUX and Service information etc.

- Signal test is only available in Antenna or Cable mode.
- Some models may not be supported.

Edit Programmes

→ → **General** → **Programmes** → **Programme Manager**

You can edit the selected programmes from all the stored programmes or add/delete them to/from the favourite programmes.

- If Internet channels are set, you can also manage Internet channels in **Programme Manager**.

Edit All Programmes

In the full programme list, you can set selected programmes to **Lock / Unlock** or set them to be skipped when switching programmes.

- Available features may vary depending on the broadcast signal.

Edit Favourites

You can add/delete desired programmes to and from favourite programmes, change their order, and more.

Edit Satellite Programmes (Advanced)

In the satellite programme list, you can set selected programmes to **Lock / Unlock** or set them to be skipped when switching programmes.

- Only models supporting satellite are applicable.

Learn More about HbbTV

HbbTV (Hybrid Broadcast Broadband TV) is a new broadcasting standard that enables super-teletext type services. It enables the transmitted programs to integrate with smart devices in use or connect to online services transmitted via broadband.
To see the details, click the **Enjoy Live Channel** → **HbbTV** in **User Guide**.

- Some models may not be supported.

Copy Programmes

→ → **General** → **Programmes** → **Copy Programmes**

You can save the device's programme list to the connected USB storage device or save the USB's programme list to the device.

- For Satellite models

Network

Wired Connection (Ethernet)

→ → **General** → **Network** → **Wired Connection (Ethernet)**

If the router connected to the network supports the DHCP feature, connecting the device 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.

Wi-Fi Connection

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

If you have set the device up for a wireless network, you can check and connect to the available wireless Internet networks. Select the wireless router to connect.
For more detailed settings, select **Other Network Settings**.

Add a hidden wireless network

If you input the name of network directly, you can add a wireless network.

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 device'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 you want to connect to. 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 webOS** → **Connecting to the Network** in **User Guide**.

External Devices

Connect Bluetooth Controller

→ → **General** → **External Devices** → **Connect Bluetooth Controller**

You can connect and use input devices such as a Bluetooth-enabled keyboard, mouse, or gamepad.
Turn on the input device you want to connect, set it to pairing mode, and press **Connect** on the screen. If you turn on the input device you've previously connected to, it connects automatically. To disconnect the existing connection, click **Disconnect**.

- It is recommended that you use a product that has been tested for compatibility with this devices.
  Bluetooth Mouse : Logitech M535, Logitech MX Master 2S, Apple Magic Mouse2
  Bluetooth Keyboard : Logitech K480, Arteck HB030B, Arteck HB192, Apple Magic Keyboard
  Bluetooth Gamepad : Sony Dualshock4, Sony DualSense Controller, Sony DualSense Edge Controller, Microsoft Xbox One S Controller, Microsoft Xbox Series X Controller, Microsoft Xbox Adaptive Controller, NVIDIA SHIELD Controller, Amazon Luna Controller, Shaks S3b, Shaks S2b, Nintendo Switch Pro Controller, Nintendo Joy-con Controller, MOGA XP5-X Plus 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 this device, 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 from devices. For more information on the device you want to connect to, refer to its user guide.

Universal Control Settings

→ → **General** → **External Devices** → **Universal Control Settings**

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

Setting HDMI External Input

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

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

4:4:4 Pass Through

Send 4:4:4 signals to the device outside of PC Mode but processing features like **Noise Reduction**, **TruMotion**, and more may be bypassed. This setting is suggested only for content creators who wish to send a signal that does not need additional processing.

HDMI Deep Colour

If you connect a device that supports **HDMI Deep Colour**, you can enjoy a clearer image. After connecting the playback device, set **HDMI Deep Colour** to **4K**.
If the connected device does not support this function, it may not work properly.
When a screen problem occurs, change the **HDMI Deep Colour** 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 Supported Formats

Resolution	Frame rate (Hz)	Colour Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 × 2160p 4096 × 2160p	50 59.94 60 (60 Hz models only)	YCbCr 4:2:0	YCbCr 4:2:0 [1)]	YCbCr 4:2:0 [1)]
		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)]	-	-
	50 59.94 60 (120 Hz models only)	YCbCr 4:2:0	YCbCr 4:2:0 [1)]	YCbCr 4:2:0 [1)]
		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)]	YCbCr 4:4:4 [1)]
		RGB 4:4:4 [1)]	RGB 4:4:4 [1)]	RGB 4:4:4 [1)]
	100 [1)] 120 [1)] (120 Hz models only) 144 [2)] (144 Hz models only)	YCbCr 4:2:0	YCbCr 4:2:0	YCbCr 4:2:0
		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 Colour** is set to **4K**.
Supported when [2] **Game Optimiser** → **144Hz Mode** is set to **On**.

- 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.

Quick Media Switching

When content with a different number of frames per second (FPS) is played on an external device that supports QMS, it makes the screen transition smoothly without interruption.

- Only applicable to Some models.

SIMPLINK (HDMI-CEC)

You can conveniently control and use various multimedia devices connected through HDMI with this device's remote control.
To see the details, click the **How to Operate The Device** → **Connecting to SIMPLINK (HDMI-CEC)** in **User Guide**.

Dolby Vision PC

You can enjoy the Dolby Vision screen by enabling HDR in the display settings of the connected PC.

- Only applicable to Some models.

TV On With Mobile

→ → **General** → **External Devices** → **TV On With Mobile**

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

- The device should be connected to a network.
- This device and the device to be used should be connected to the same network.
- The **Turn on via Wi-Fi**/**Turn on via Wi-Fi(Networked Standby Mode)** feature must be used in an app on a smart device that supports the feature.
- **Turn on via Bluetooth**/**Turn on via Bluetooth(Networked Standby Mode)** is only available on some smartphones.
- The device 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

→ → General → External Devices → Delete Connection History

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

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 referring to the selected language for the menu.

- The speech recognition is only applied to some models.

Primary Audio Language / Secondary Audio Language

You can choose the language you want when watching a digital broadcasting programme, which includes multiple audio languages.
For programmes 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.

To Set Teletext Language

Sets Teletext language.
To see the details, click the **Enjoy Live Channel** → **TELETEXT** in **User Guide**.

- In Digital Mode Only
- The configurable items differ depending on model.

Setting the Location

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

You can change the location setting of the device.

Address Setting

You can set the **Region** and **City** of your device.

Broadcast Country

You can set the broadcast country on your device.

Postcode

This function is used to set the broadcast location of the device by entering your postcode.

LG Services Country

If you don’t set the **Set Automatically**, you can select the country manually.

Weather Location Setting

Please set your region to display the weather on the screen saver and, etc.

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

Time & Timer

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

You can check the time or configure related settings.

Set Automatically

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

Time / Date / Time Zone

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

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

Custom Time Zone

If you select **Custom** in **Time Zone**, **Custom Time Zone** menu is activated.

Timers

Sleep Timer

Sets the device to turn off at a specified time.
If you do not want to use **Sleep Timer**, select **Off**.

Power On Timer

Set **Enable the function** to **On**.
The device is turned on at the set time.

- **Time** : Set the time at which to turn on the power.
- **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 Programme** : 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 **Enable the function** to **On**.
The device is turned off at the set time.

- **Time** : Set the time at which to turn off the power.
- **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 device is turned on by a feature such as **Power On Timer**, the device will be turned off automatically.
To ensure the product 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 broadcasts or apps.
Set **Enable the function** to **On**.

TV Rating Locks

This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate. Restricts children's viewing of specific adult broadcast content based on rating restrictions settings. To watch blocked content, enter the password. Viewing ratings vary by country.

- Supported only in the digital mode.
- Some models may not be supported.

Programme Locks

Blocks the programmes that contain inappropriate contents for children. The programmes can be selected but the screen is blank and the audio is muted. To watch a locked programme, 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 device.

- The default password is set as “0000”.
  When France, Norway or Belgium is selected for Country, the password is not “0000” but “1234”.

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 **(Programmes)** ∧ → **(Programmes)** ∧ → **(Programmes)** ∨ → **(Programmes)** ∧ on the remote control. The master password input window will appear.

04 Enter the numbers “0313” in the master password input window. The password will be reset.

Quick Start+

→ → **General** → **System** → **Additional Settings** → **Quick Start+**

This setting puts your device 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.

Home Settings

→ → **General** → **System** → **Additional Settings** → **Home Settings**

Power On Screen

You can select the screen to be displayed when the power is turned on.

Home Promotion

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

Content Recommendation

You can receive content recommendations on the Home screen.

Wallpaper

Your selected Home wallpaper is displayed in Black Mode.

- The configurable items differ depending on model.

Screen Saver Promotion

→ → General → System → Additional Settings → Screen Saver Promotion

You can turn on or off the advertisements displayed on screen savers of certain apps. Setting to **On** enables you to turn off the advertisements displayed on the screen saver.

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.

Using the Live Plus

Live Plus is a service that provides various information on the programme you watch. To see the details, click the **Making the Most of Smart function** → **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.

Set ID

→ → General → System → Additional Settings → Set ID

You can set a number (ID) to manage multiple devices.

- This feature is for administrators. It is not recommended for use in a typical home environment.

Restoring the Default Settings

→ → General → System → Reset to Initial Settings

Return the device to its initial settings. After reset, the device will automatically turn off and on.

Reset All

This will return all settings to their default values.

Reset all except network settings

All items except the network settings are changed to their default settings.

- If **Safety** is set to **On**, you should type the password to **Reset to Initial Settings**.
- Do not turn off the power during initialisation.
- We recommend that you reset the device to **Reset to Initial Settings** before you sell it or transfer it to a third party.

Energy Saving

To Use Energy Saving Feature

→ → General → Energy Saving

Reduces power consumption by adjusting screen brightness.

Energy Saving Step

Auto : The product's sensor detects the ambient lighting and automatically adjusts the screen brightness.

- Some models may not be supported.

Minimum Brightness : You can set how dark the screen is when the **Energy Saving Step** is set to **Auto**.
Off : Turns off the **Energy Saving Step**.
Minimum / **Medium** / **Maximum** : Use the power saving feature according to **Energy Saving Step** set on the device.

- The configurable items differ depending on model.
- If you use **Energy Saving Step** function, brightness of the device will be affected.

Auto Power Off

When the device 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.

- It may not be supported, depending on the running app or function.

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 only perform updates if an update file of a later version is available. The device automatically checks your software version but, if necessary, you can perform a manual check.

- The configurable items differ depending on model.

- The latest version can be obtained via digital broadcast signals or internet connections.
- Changing the programme while downloading the software via digital broadcast signal interrupts the download process. Returning to the initial programme 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.

Screen Self-diagnosis

→ → **Support** → **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

→ → **Support** → **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.

Memory Optimiser

→ → **Support** → **Memory Optimiser**

You can optimise your device by cleaning up unused apps or unnecessary memory.

Home/Store Mode

→ → **Support** → **Home/Store Mode**

You can choose between **Home Mode** and **Store Mode**.
To use the device at home, select **Home Mode**.
Select **Store Mode** only when the device will be displayed in store. The **Store Mode** provide settings optimised for store display.

TV Information

→ → **Support** → **TV Information**

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

IP Control Settings

→ → **Support** → **IP Control Settings**

Uses the IP control device to control the device connected to the network.

Privacy & Terms

→ → **Support** → **Privacy & Terms**

User Agreements

These are the terms and conditions related to use of the Smart function-related services and protection of privacy.

Legal Notice

It's a legal notice for services provided via the device.

Open Source Software Notice

You can view the instructions for each item.

Advertisement

You can reset the information collected for the purpose of providing customised advertising or refuse the collection of ad-related information.

Limit AD Tracking

If set to **On**, personalised advertisements based on user interests may not be provided.

Reset AD ID

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

App Permissions

Camera

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

Microphone

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

Nearby Devices

Nearby Devices access will be customised for individual apps.

Delete My Personal Information

Delete Viewing Information

You can delete the viewing information collected from the device to the server. Deleting this information may impact the recommendation services provided based on your viewing or device usage history.

Delete Voice Information

You can delete the voice information collected from the device to the server. Deleting this information may impact the recommendation services provided based on your voice history.

- The deletion of this information requires a network connection and agreement to the Terms and Conditions.

Delete Voice ID

Delete the Voice ID information collected from the device.

- The configurable items differ depending on model.

Troubleshooting

Perform Check-up with the Quick Help

Perform Check-up with the Quick Help

When the device 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**.

Optimisation Settings

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

Help Library

Select the item that matches the symptom to find instructions that can help you solve the problem.

Self-diagnosis and Care

You can check your device's current status for the selected item.

LG Remote Service

You can get help for troubleshooting through the remote control.
For **LG Remote Service**, contact the manufacturer's customer service centre.

- 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 the problem persists, contact the manufacturer's customer service centre.

Learn More About Always Ready

Learn More About Always Ready

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

- Unlike conventional power off, you can operate the device with Hands-free Voice Control, connect Bluetooth, and receive responses from reserved Home IoT Devices.

However, standby power may be consumed more than when the power is turned off.

- Depending on the model, some features may not be available.

How can I use **Always Ready**?

- Set the **Enable the function** of ⚙ → ⚙ → **General** → **Always Ready** to **On**.
- When watching the device
  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 device is **Always Ready** with the screen on
  To watch the device, 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 device is **Always Ready** with the screen off
  To watch the device, 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** in ⚙ → ⚙ → **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 the device.

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

- Setting **Enable the function** in ⚙ → ⚙ → **General** → **Always Ready** to **Off** enables you to immediately turn the power off by pressing the ⏻ button on the remote control while watching the device.
  In this case, features such as Bluetooth connection or Hands-free Voice Control will not work.

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

- This only applies to models that support the Hands-free Voice Control.
  The colour 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 The**

Device → Using 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 be no problem with the product.

I cannot turn on the device.

- Check that the power Standby Light on the device is red. If Standby Light is off, check the connection of the device 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 device's power plug directly to a wall outlet and observe its operation.
- Try to power on using the button on your device.

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 the Magic Remote is not appearing on the screen.

- Hold the remote control towards the device 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 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 device on with the 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.)
- If you place an obstacle, such as a soundbar, in front of the device’s remote control receiver, it may interfere with the reception of the remote control signal. Install it at least 10 cm away from the device’s remote control receiver.
- When using a set-top box remote control, if the device integrated control function of the set-top box remote control is turned off, you cannot power on or off the device with the set-top box remote control. Please contact your set-top box provider.

The power turns off suddenly.

- Check whether the following settings are turned on.
  → → **General** → **System** → **Time & Timer** → **Timers** → **Power Off Timer**
- The device will be turned off automatically if you do not press any buttons for 4 hours even after the device 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 device may be set to turn off when the set-top box is turned off. To prevent the device from turning off when you turn off the set-top box, turn the device power sync function off on the set-top box.

Every time I turn on the device, the Home screen appears.

- The Home screen is automatically displayed whenever you turn on the device. To disable this feature, go to → → **General** → **System** → **Additional Settings** → **Home Settings** and set **Power On Screen** to **Recent Input**.

I cannot turn on or operate the device with the device's 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 be no problem with the product.

First of all, perform a → → **Support** → **Screen Self-diagnosis** to check any abnormalities in the device.
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 device.

It says there is no signal on the screen.

- Ensure the cables from antennas or external devices are properly connected to this device.
- 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 programmes.

- Launch → → **General** → **Programmes** → **Programme Tuning** (**Programme Tuning & Settings**) → **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 viewing videos through an external device (set-top box, game console, etc.) or content app, check the screen size settings in the settings menu of the device/app. There may be differences in the screen ratio provided by each device/app.

The screen shakes after the momentary appearance of vertical/horizontal lines and net pattern.

- Interference can occur from strong radio waves such as those from other electrical devices; therefore, use devices such as hair dryers or electric drills in different outlets.

Each programme has a different image quality.

- Depending on the type of videos provided by the broadcasters, programmes 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 programme 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** → **Programmes** → **Programme Tuning** (**Programme Tuning & Settings**) → **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 colour 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** → **External Devices** → **HDMI Settings** → **HDMI Deep Colour**.

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.
- → → **Picture** → **Advanced Settings** → **Reduce Blue light**
  Switch **Reduce Blue light** to **Off**.
- → → **General** → **Energy Saving**
  Switch **Energy Saving Step** to either **Off** or **Minimum**.

The game screen is too dark.

- If you connect an external device to play HDR games, the screen brightness will be optimised to the level set when the game was created.
  If you want to change the optimised screen brightness, change the settings below.
  → → **Picture** → **Advanced Settings** → **Brightness** → **Dynamic Tone Mapping**
  Switch **Dynamic Tone Mapping** to **Off**.

The screen brightness keeps changing.

- → → **General** → **Energy Saving**
  Switch **Energy Saving Step** to either **Off** or **Minimum**.

The screen is in black and white or displaying strange colours.

- → → **General** → **Accessibility** → **Greyscale**
  Switch **Greyscale** to **Off**.
- → → **General** → **Accessibility** → **Invert Colours**
  Switch **Invert Colours** 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 be no problem with the product.

First of all, perform a → → **Support** → **Sound Self-diagnosis** to check any abnormalities in the device.
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 device.

The screen is fine, but it does not play any sound.

- Try another programme.
- Adjust the volume with the remote control for the device.
- When using a set-top box, no sound will be produced if the volume of the set-top box is set to 0 or mute. Set the volume to your preference with the volume button on the set-top box remote control.
- → → **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**.

The sound is not synchronised with the picture, or the sound sometimes breaks up.

- If this happens on only some of the programmes, it may be caused by the broadcasting company's transmission signal. Please have your broadcasting services provider (wired/cable) diagnose the problem.
- If all programmes 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 programme.

- 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 volume keeps changing.

- → → **Sound** → **Advanced Settings** → **Automatic Volume Adjustment**
  Set **Automatic Volume Adjustment** to **On**.

The sound does not work or only the background music is played in some programmes.

- Set your language preference in ••• → **Audio Language**.

The voice resonates excessively.

- → → **Sound** → **Select Mode**
  Set **Select Mode** to **Clear Voice**/**Clear Voice Pro**.

A voice is emitted when setting menus or operating programmes, volume, etc. with the remote control.

- → → **General** → **Accessibility** → **Audio Guidance**
  → → **General** → **Accessibility** → **Audio Description**
  Set to **Off**.
  - Depending on the model, some features may not be available.

Troubleshooting Device Connection Issues

Troubleshooting Device Connection Issues

If you experience any of the problems below while using the product, please check the following: There may be no problem with the product.

Screen Share does not work.

- Check if your smart device supports the Screen Share function.
- If this device is not detected on your smart device, turn all devices off and back on again.
- Make sure you have selected the device from the list of devices found on your smart device.
- The name of the device can be changed in **Device Name** on → → **Support** → **TV Information**.
- When using the AirPlay function, ensure that the device is connected to the same Wi-Fi. Make sure that **Home Hub** → **AirPlay** is set to **On**.
  Some models do not support AirPlay.

The screen remains blank after it is connected to a PC.

- Check that the PC is properly connected to the device.
- Turn the device off and back on using the remote control.
- Restart the PC with the device on.
- Make sure that the output resolution set on the PC is set to the HDMI-PC supported resolution of the device.
- To use dual monitors, check that the PC or notebook supports dual-monitor mode.
- Reconnect the HDMI cable.
- If you have connected the RGB output port of your PC to the **HDMI IN** of your device, you need an RGB to HDMI connector.
  You will not see anything on the screen if you use an HDMI to RGB connector.

The screen is not fully shown or is lopsided when connected to a PC.

- Set the PC's resolution to one supported by the device. 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 Hub** 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.

- In the PC settings, go to Control Panel → Sound → Playback to ensure the correct device is selected as the default.
- Consult your manufacturer on whether your graphics card supports HDMI audio output.

I cannot set the refresh frequency to 144 Hz for a PC connected to a model that supports 144 Hz.

- Set **144Hz Mode** in → → **General** → **Game Optimiser** to **On**.

The screen of the set-top box connected to the 144 Hz supported model does not appear.

- Some devices may have compatibility issues with 144 Hz. Set **144Hz Mode** in → → **General** → **Game Optimiser** to **Off**.

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 be no 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 programmes 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 screen while using the playback control. Select SUB 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 programme you use.
- Some NAS devices may not support captions when playing a video.

My USB storage device is not recognised when connected.

- Check whether it is a USB storage device supported by this device.
  For more information, see **Connecting External Devices** → **Connecting USB Storage Devices** in **User Guide**.

Troubleshooting Recording Issues

Troubleshooting Recording Issues

Refer to **Enjoy Live Channel** → **Recording** in the **User Guide** for details on recording.

How do I start recording?

- Connect a USB storage device with at least 4 GB of total space. Depending on the performance of the USB memory, the record function may not be supported. For smooth recording, using a USB hard disk is recommended. (Refer to **Connecting External Devices** → **Connecting USB Storage Devices** in the **User Guide** for details on USB storage devices.)
  Press the ••• button on the remote control and select **Record**. If your remote control does not have a ••• button, press and hold the Yellow button.
  You can also start recording by long pressing Red button on the Remote Control.
- Some USB storage devices require formatting on this device. Formatting deletes all data stored on the USB storage device, and the device is formatted with the FAT32, exFAT or NTFS file system. Before you connect a USB storage device to this device, back up any data that is stored on the device to your PC.

Which signals support recording?

- You can only record in **Live TV** mode, which is received through the antenna port on this device.
- Protected content is not recorded.

Can I set a **Scheduled Recording** even if I turn this device off?

- Even when the device is off, it will start and complete the recording at the time set for **Scheduled Recording**.
- If the device is turned off completely as follows, **Scheduled Recording** cannot be used.
  - When this device is not connected to a power outlet
  - When the switch of the multi-outlet to which the power plug of this device is connected is turned off
  - When the standby power cutoff switch is on so that power is not supplied to this device

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 be no 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 Settings** → **Advanced Wi-Fi Settings**

- Some models may support the **Wi-Fi Connection** function only.

The wireless network connection is not working.

- 1. Change → → **General** → **System** → **Additional Settings** → **Quick Start+** to **Off**.
  2. Turn off the device and turn it back on, then connect to the wireless network.
- If it cannot connect to the router, try connecting it to the mobile hotspot on your smartphone. If it can be connected to the mobile hotspot, this indicates that it is a router problem. In this case, please check the router.
  If you use the network with a device connected to a mobile hotspot, you may be charged according to the contract with your carrier.



When X appears next to the device

- Check the device or the AP (Router).
- Check the connection status of the device, 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 device 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.
- Initialise (Reset) 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.
- Initialise (Reset) the AP (Router) or cable modem.
- Check that the MAC address of the device/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 the device. Do I have to sign up again on the

website (www.lgappstv.com)?

- You can use the website and LG ThinQ app with the member information registered on the device.

I forgot my password. What should I do?

- On the device'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 device.

- When you log in to your LG account on the device, the account will be saved to the device.
  You can delete accounts stored on the device at any time, as follows.

01 Select → **LG Account**.

02 Select → **More account information** at the top of the screen.

03 Select .

04 Pressing **Delete** will delete the account.
It will not delete the login history or close the account.

I want to delete the viewing information collected based on LG Account from the device.

- You can delete the viewing information stored based on the logged-in LG Account at any time.

01 Select → **LG Account**.

02 Select → **More account information** at the top of the screen.

03 Select **Account Management** for the account you wish to set up.

04 Select **Delete Viewing Information** and follow the on-screen instructions to delete the information.

I wish to close my account on the device.

- You can also close your LG account on the device as follows.

  01 Select → **LG Account**.

  02 Select → **More account information** at the top of the screen.

  03 Select **Account Management** for the account you wish to set up.

  04 Select **Terminate My Account**.

  05 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 be no 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 be no 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 and not 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
- 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 Web 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

Extension	Resolution
jpeg, jpg, jpe	Minimum : 64 × 64 Maximum Normal Type : 15360 (W) × 8640 (H) Progressive Type : 4800 (W) × 3600 (H)
png	Minimum : 64 × 64 Maximum : 5760 (W) × 5760 (H)
bmp	Minimum : 64 × 64 Maximum : 1920 (W) × 1080 (H)
avif, heic, heif	Minimum : 64 × 64 Maximum : 4800 (W) × 3600 (H) 9600 (W) × 7200 (H) (8K models only)

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 supported models only)
  HEVC 3840 × 2160@120P Main/Main10@L5.2 Maximum 60Mbps
- Dolby Vision video (Dolby Vision supported 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 Maximum 50Mbps
HEVC 7680 × 4320@60P Main/Main10@L6.1 Maximum 100Mbps

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
	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3), Dolby AC-4, DTS, DTS-HD, DTS:X
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, DTS, DTS-HD, DTS:X, 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, DTS, DTS-HD, DTS:X, 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 , DTS , DTS-HD , DTS:X : 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 the manufacturer 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 programmes may vary depending on 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 (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	112.5	100
	134.86	119.88
	135	120
2560 × 1080p [4) 5)] (ULTRA HD, 8K models only)	66	60
2560 × 1080p [4) 5)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	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)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	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)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	225	100
	269.73	119.88
	270	120
7680 × 4320p [1) 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 Colour** is set to **4K**.
[2] Supported when **HDMI Deep Colour** 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 (Full HD, ULTRA HD, 8K models only)	63.98	60.02
1920 × 1080	67.5	60
1920 × 1080 (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	134.86	119.88
	135	120
1920 × 1080 [6)] (Only applicable for 144 Hz models)	166.58	144
2560 × 1080 [4) 5)] (ULTRA HD, 8K models only)	66	60
2560 × 1080 [4) 5)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	131.74	120
2560 × 1080 [4) 6)] (Only applicable for 144 Hz models)	166.54	144
2560 × 1440[1)] (ULTRA HD models only)	88.78	59.95

2560 × 1440[1)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	182.99	119.99
2560 × 1440[6)] (Only applicable for 144 Hz models)	222.15	144
3840 × 1080[5)] (ULTRA HD, 8K models only)	66.62	60
3840 × 1080[5)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	137.25	120
3840 × 1080[5) 6)] (Only applicable for 144 Hz models)	166.56	144
3840 × 1600[4)] (ULTRA HD, 8K models only)	99.41	60
3840 × 1600[4) 6)] (Only applicable for 144 Hz models)	246.81	144
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)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	225	100
	269.73	119.88
	270	120
3840 × 2160 [6)] (Only applicable for 144 Hz models)	333.18	144
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)] (Only applicable for UltraHD 120/144 Hz, 8K 120/144 Hz models)	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
	264	60

[1] Supported when **HDMI Deep Colour** is set to **4K**.
[2] Supported when **HDMI Deep Colour** is set to **8K**.
[3] Supported when **HDMI Deep Colour** 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**.
[6] Supported when **144Hz Mode** is set to **On**.

- Supported HDMI-PC port differs by model. Refer to the manual provided with the product.

License Information

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Supported licenses may differ by model.

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