

BATHROOM LED TV

INSTRUCTIONS

V1.1

powered by webOS TV



M22

Thank you for purchasing this product. Before using the product, make sure to read this manual carefully and fully understand it before using the product correctly.

Make sure to keep this manual.

The screen displays and illustrations shown in this manual are for explanation purposes only and may differ from the actual displays.

The information in this document is subject to change without notice.

If you have difficulty following or understanding these instructions, please consult a qualified specialist.

Developed and Manufactured by Shineworld Innovations Limited.

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Congratulations! Your new waterproof TV opens the door to the “Amazing Experience” in the room.

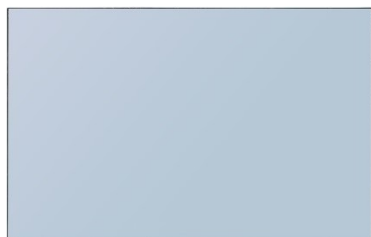
- Open the box and check the parts and accessories packed.
- Install two AA size batteries in your remote control.
- Install and set the waterproof TV.

PACKING LIST

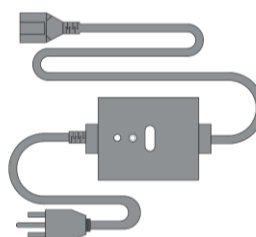
Please check and make sure the requested parts and accessories are included upon you open the box.

1. Waterproof Television

*IP65 Dustproof and Waterproof



2. Power Adapter/Cord



3. Magic Remote Control

*Non-waterproof



4. Waterproof Cover

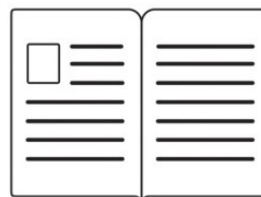
*Partially Waterproof



5. Remote Control Holder

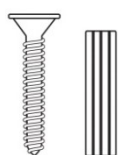


6. User Manual



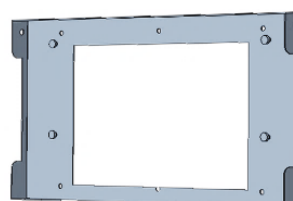
7. Installation Kit

x 5 sets



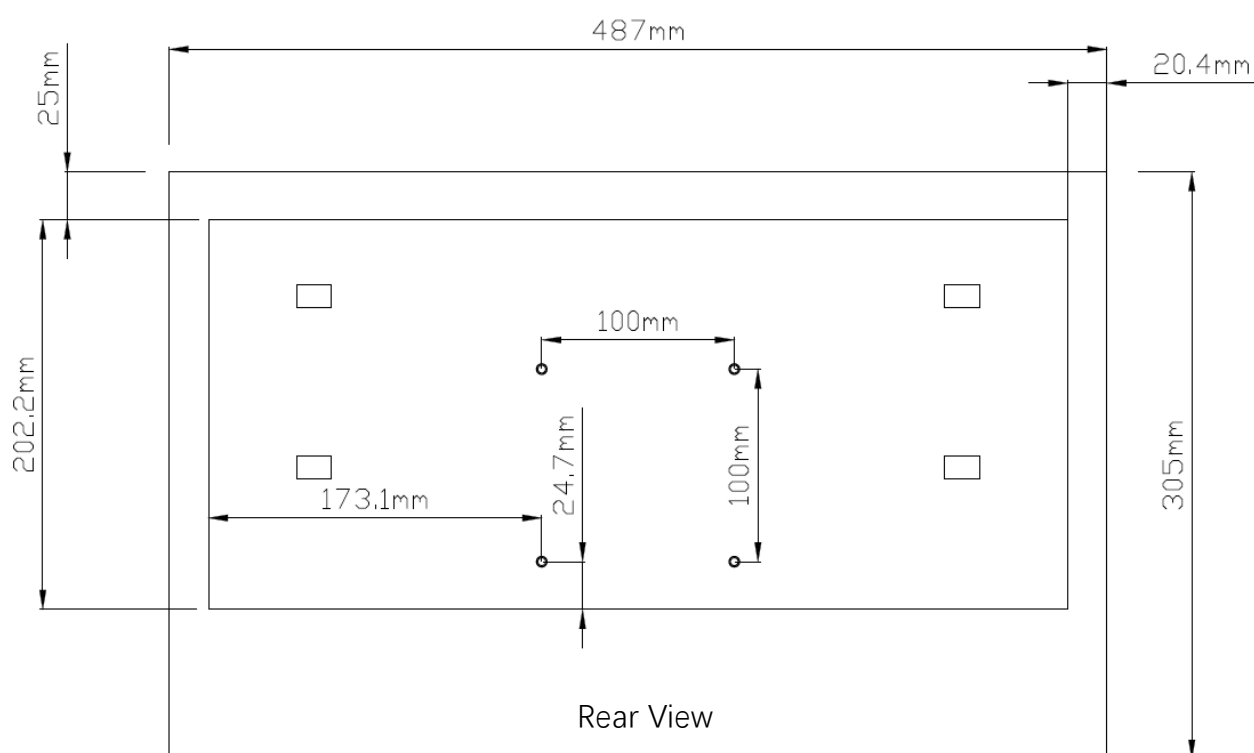
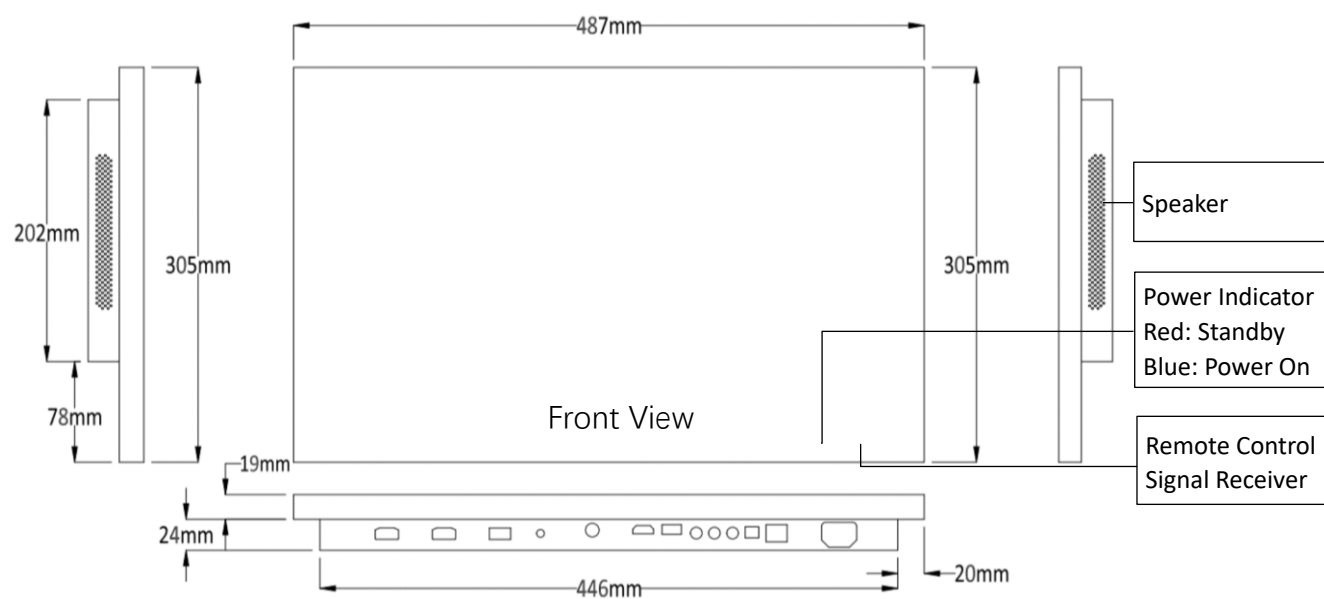
8. Mounting Bracket

For On-wall or In-wall Installation



SPECIFICATIONS

Dimensions



Specifications

Product Name	Waterproof Bathroom TV
Model	SS215U22
Display Size	21.5inch Diagonal
Front Panel	Optical Single-sided Transmissive Mirror
Resolution	FHD 1080P (1920x1080)
Backlight	LED
Dustproof / Waterproof Rating	IP65
Back Cover	Powder Coated Metal
Wall Mount Bracket Included	Embedded Mounting Bracket for On/In Wall Installation
VESA Pattern	100mm x 100mm
Connections	Ethernet RJ45, Optical Audio Out, Earphone Audio Out, AV, USB2.0 x 2, HDMI1.4 x 3 (ARC x 1), TV Tuner, Bluetooth5.0, WiFi (2.4G & 5G)
Built-in Speakers	8Ω/10W x 2
Aspect Ratio	16:9
Operating System	LG webOS
TV Power Input	AC 110 – 230V
Power Consumption	23W
Standby Power Consumption	< 0.5W
Remote Control Supplied	Magic Remote
Remote Control Power	DC 3V (Two AA Size Batteries)
Remote Control Functions	IR, BT, Voice Control, Hotkeys, Universal Control, Pointer (Zyro Sensor)
Control Method	IR, Voice Control, Air Mouse Pointer
Voice Recognition	15 Languages / 143 Countries
Working Temperature	0°C - 40°C (32°F - 104°F)
Multimedia Playback Format under USB Mode	Music: MP3, M4A, AAC, WMA
	Movie: AVI, MP4, MPG, MKV, MOV, DAT, VOB, RM, RMVB
	Photo: JPG, BMP, PNG

SAFETY INSTRUCTIONS



Be sure to read this carefully before using the television to ensure correct and safe use.

Symbol Meaning



WARNING

Indicates content that could result in death or serious injury.



ATTENTION

Indicates content that may cause injury or damage to property.



You need to be careful.



Do Not.



You must do.



WARNING

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

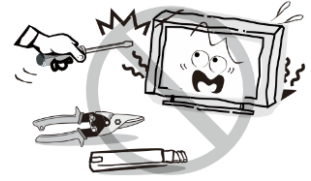
This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Important Safety Instructions



Do not disassemble the TV or the remote control.

If you are not a service person, never disassemble the TV or the remote control. There is a risk of ignition resulting in injury. Continuous operation with abnormal conditions may cause a fire or electric leakage.



To prevent fire and electric shock.

If the TV body is cracked or damaged, the waterproof function may be impaired, so do not use it as it is.



When lightning strikes, stop the operation immediately and unplug the power plug.

If you continue to use it as it is, there is a risk of electric shock due to temporary overcurrent caused by lightning.

If used as is, a temporary overcurrent caused by lightning may cause damage to electronic components.

Also, do not touch the indoor switch with wet hands as there is a risk of electric shock.



Do not use the TV out of doors.

This television is intended for indoor installation/use only. Premature product failure or serious personal injury could occur if this product is used outdoors.



No naked flame sources.

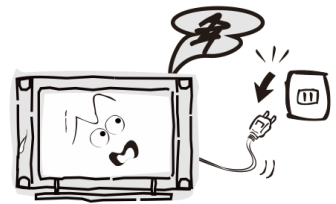
To avoid the fire, no naked flame source, such as lighted candles, should be placed on the apparatus.



Turn off the power switch in case of smoke, strange noise or strange smell from the unit.

The screen and cabinet get warm when the TV is in use. This is not a malfunction. In case of smoke, strange noise or strange smell from the unit:

- Turn off the power switch immediately;
- Disconnect the power plug from the power outlet;
- Contact qualified personnel. Never attempt to make repairs yourself.



If the following problems occur, turn off the TV set and unplug the AC power cord immediately, and ask qualified personnel to have it checked.

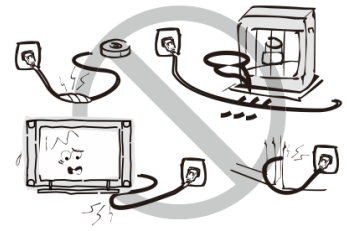
- AC power cord is damaged;
- Poor fitting of AC power outlet;
- TV set is damaged by being dropped, hit or having something thrown at it;



Do not overload wall outlets or extension cords beyond their capacity.

This may result in fire or electrical shock.

The mains plug is used as the disconnect device. It shall remain readily accessible and should not be obstructed during intended use. To disconnect the apparatus from the mains power, the plug must be pulled out from the mains socket, therefore make sure the main plug is always easily accessible.



Cleaning



Disconnect the unit before cleaning.

Cleaning and handling the screen surface and cabinet. Disconnect the unit from the AC outlet before cleaning. To remove dust, wipe gently with soft, lint free cloth. If required, use a slightly damp cloth.

Damage Prevention



If there is a strange odor or abnormal noise around the bathroom, turn off the switch of the electric appliance and the safety breaker of the distribution board, and request repair immediately.

Continuing operation with abnormal conditions may cause a fire or electric leakage.



Do not remove, scratch or peel off the sealant.

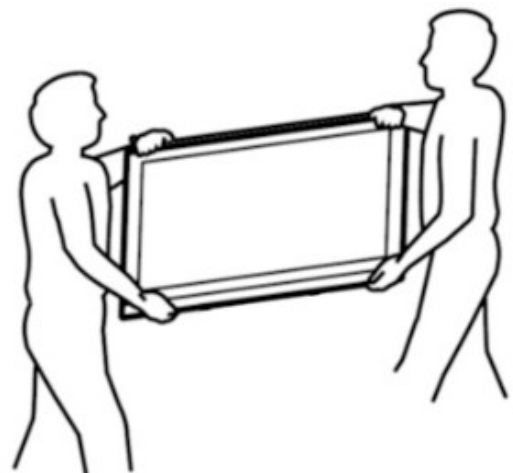
The waterproof function may be impaired, resulting in fire, electric shock, or malfunction.



Make sure to transport the TV properly.

Two or more people are needed to transport the TV set.

Improper transporting may cause damage and injury.





ATTENTION

Disclaimer

Please note, we shall not be liable for any failure, malfunction, or damage caused by the customer or a third party misusing this product, except when legally liable.



Attention of Health

- For continuous use, take a 10 to 15 minutes break every hour to rest your eyes.
- Brighten the bathroom and look at it at a reasonable distance.
- If you feel tired or in pain while watching the TV, stop watching immediately. If you continue to feel tired or in pain even after stopping watching, consult a doctor.
- Very rarely, some people may experience temporary symptoms such as muscle spasms or loss of consciousness while watching the screen that is repeatedly flashing or stimulated by strong light. If you have such experience, please be sure to consult with your doctor before using this product. If you experience any of these symptoms while using this product, stop using it immediately and consult a doctor.



Antenna construction requires technical experience, so please consult professional personnel.

If it is installed near the transmission / distribution line, it may cause an electric shock when the antenna falls down.



Do not give a shock to the TV (do not hit, push, or poke with a sharp object).

The frame or screen may be scratched, or the front panel may crack.



When not in use for a long period of time, unplug the power adapter.

It may cause electric shock or fire if you don't.



To use the device properly.

After using the bath, make sure that the bathroom is well ventilated. It will be the cause of the failure.



Do not intentionally sprinkle water.



Do not put a commercially available protective film on the screen.

It may cause discoloration or damage.

Handling of Battery



Pay attention to the direction of polarity (positive ⊕ and negative ⊖) and insert correctly.

If you make a mistake, the battery may be damaged or liquid may leak, resulting in fire, injury or contamination of the surrounding area.



Do not use or leave the remote control containing battery or battery in a hot place such as a place with strong direct sunlight or in a car under the scorching sun.

The battery may leak, overheat, or explode.



Do not charge.

Since it does not have a charging structure, charging it can lead to liquid leakage, heat generation, explosion, and ignition, which is dangerous.

About Care



Do not use scrubbing brush, hard sponge, melamine foam sponge, sandpaper or sharp metal.

It may damage the frame or front panel, or damage the waterproof function.



Do not use stainless cleaner.

The frame and front panel may be discolored or deformed.



For cleaning, use a neutral kitchen detergent (for washing dishes and vegetables) diluted with water.



If water drops adhere to the screen, wipe them off with a soft cloth.

It may cause cloudiness on the screen.



Rinse off any detergent labeled as neutral after use.

If detergent is left on for a long period of time, the frame and screen may be discolored or deformed.



If you get fingerprints or water stains, soak a cloth in a neutral detergent diluted with water, squeeze it tightly and wipe it off, and then wipe off the water droplets with a soft, dry cloth.

If left unattended, water stains may stick to the screen, making it difficult to see the screen or causing a malfunction.



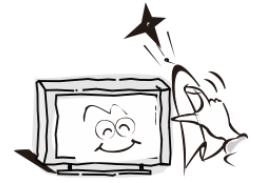
Cannot be used abroad.

This product can only be used in certain countries. It cannot be used in foreign countries as a TV because the broadcasting system is different.



To clean the TV body, use organic solutions such as cleanser, lacquer, thinner, alcohol, acetone, and benzine, oil-based detergents, chlorine-based detergents, non-neutral detergents, and chemicals such as bleach, hydrochloric acid, ammonia, and caustic soda. **Do not bleach.**

Lightly wipe off dirt with a soft cloth (cotton, flannel, etc.). The decorative frame and the glass surface will be scratched if you wipe it with a hard cloth or rub it strongly.



Do not use the following items as they may cause scratches, deformation or deterioration.

Nylon scrubbing brush, metal scrubbing brush, turtle scrubbing brush, chemical scrubbing brush, etc.

If it is extremely dirty, wipe it off with a soft cloth (cotton, flannel, etc.) soaked in a neutral detergent diluted with water, and finish with a soft, dry cloth.

In particular, do not use the following detergents as they may damage the surface or cause deformation or deterioration.

Alkaline detergent, alcohol detergent, chlorine detergent, polishing powder, soap powder, car wax, stainless cleaner, etc.



Do not display a still image for a long time.

It may cause an afterimage. Do not display still images and partially still images on the screen for more than 2 hours as it can cause screen image retention.



Be careful of electromagnetic interference.

If electronic devices such as mobile phones, radio receivers, transceivers, and disaster prevention radios are used near this unit, interference between the devices may occur due to electromagnetic interference, resulting in distorted images or noise.

Handling of Remote Control



Make sure the battery lid is closed.

If water gets inside, it may cause a malfunction.



When disposing of the remote control, remove the batteries.

If you dispose of it with it inside, it may cause an unexpected accident.



Do not float or submerge in water or intentionally splash water or detergent on it.

If water gets inside, it may cause a malfunction.



Wipe off any water droplets before replacing the batteries.

If water gets inside, it may cause a malfunction.

REMOTE CONTROL

Installing Batteries and Putting on Waterproof Cover

- Install two AA batteries in the magic remote control and close the battery lid.
Pay attention to the direction of polarity (positive ⊕ and negative ⊖) and insert correctly.
- Put on the waterproof cover.

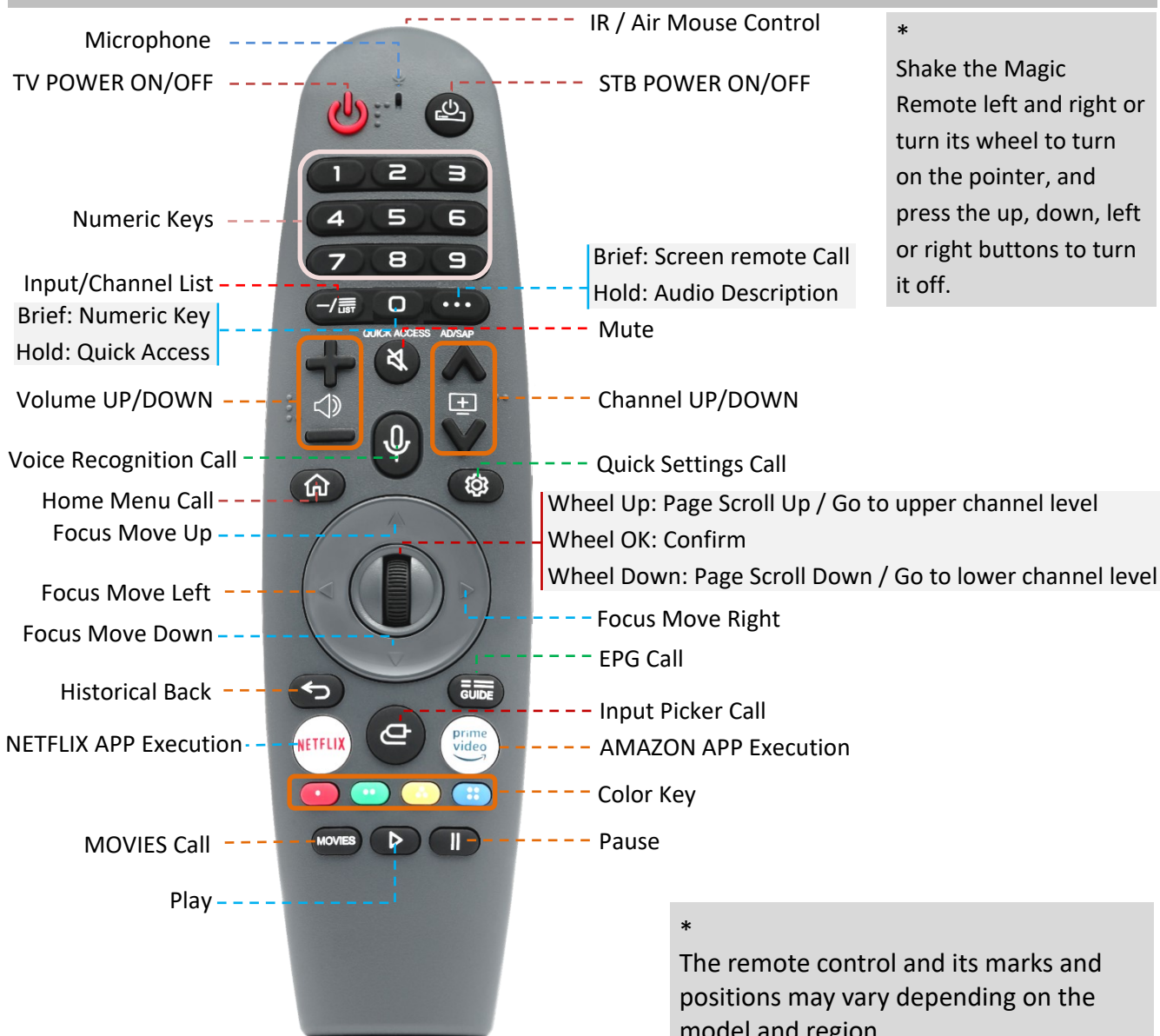


The waterproof cover is not fully waterproof.

Do not float or submerge in water or intentionally splash water or detergent on it.
If water gets inside, it may cause a malfunction.



Functions of Buttons



Pairing the Magic Remote

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

Pair the Magic Remote prior to use as follows:

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

Re-registering the Magic Remote

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

1. Hold the remote control towards the TV and long-press **GUIDE** button until the instruction appears.
2. The previously registered remote control is deregistered and then registered again.

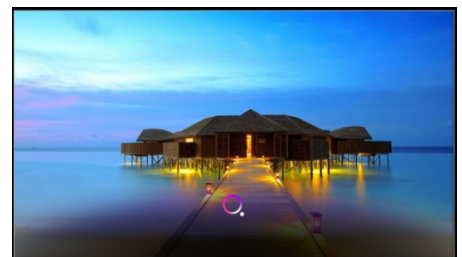
Using the Magic Remote

1. If you shake the Magic Remote left and right or turn its wheel while pointing it at the TV, a pointer will appear on the TV screen.
If you move the remote control to the direction you want, the pointer follows the movement.
2. Move the pointer to the location you want and press the **Wheel (OK)** button to execute the function.
3. 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 the **up, down, left or right** buttons, and the remote will work as a conventional remote.
- 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 specified range (within 10 meters). The device may not function properly when outside the working distance or when an obstacle blocks the line of sight.
- 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.

Using TV Functions through Speech

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

1. 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.
2. Once you release the  button after your speech input, the corresponding function is launched.



- Some models may not be supported.
- Your **Location** must correspond to the language for exact search results. Some functions may not be available if your location settings and language settings are different.
- You can change the language in ⚙️ → ⋮ → **General** → **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 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 Help and Settings**.

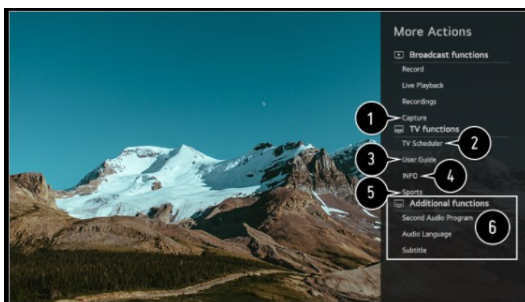
Cautions for Speech Recognition

- Voice recognition requires a Magic Remote, which may not be supported by certain models.
- To use all speech recognition features, you need to set your programmes, region, etc. Otherwise, you cannot use some features.
- You must have a network connection to use the speech recognition feature.
- If you have a network connection, you need to accept the terms and conditions to use speech recognition.
- To control the set top box connected to the TV with the voice recognition feature, go to ⚙️ → ⋮ → **Connection** → **Device Connection Settings** → **Universal Control Settings** to set up a universal remote control.
- 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 TV volume).
- To achieve accurate recognition of your speech, you must pronounce words in a slow and accurate manner at an appropriate voice volume at a distance of about 10 cm away from the Magic Remote's microphone.
- If your speech is not recognized properly, speech recognition may operate differently than you originally intended.

To View More Features of the Remote Control

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

1. Press the **•••** button on the remote control.
2. Using the remote control, select your desired button on **More Actions** displayed on your TV screen.



INSTALLATION / SET-UP

Precautions before Installation

It is recommended that two people perform the installation. Injury and/or damage may result from dropping or mishandling the display.

The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV.

When mounting on a wall, be sure to use the screws in the package we provide. Using screws other than those supplied may damage the TV or cause it to fall.

Use a qualified electrician to set your electrical power supply system. If the power cable is pinched or cut when installed, the users or installers could be subject to an electric shock.

Avoid installing in direct sunlight.

The TV's operating temperature is 0 °C to 40 °C. It cannot be installed in places where the temperature exceeds 40 °C, such as in a high-pitched sauna. When installing in a bathroom with a heating / ventilation dryer, install it in a position where the hot air does not blow directly.

The recommended mounting position for the bathroom TV is in front of the bathtub.

Do not immerse the TV or power supply unit in the liquid.

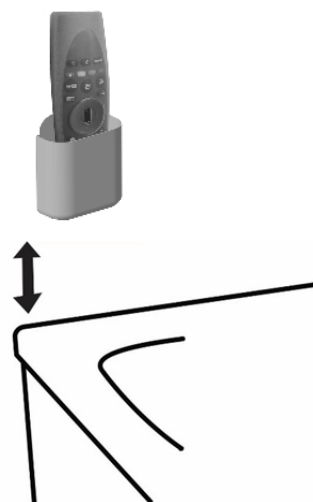
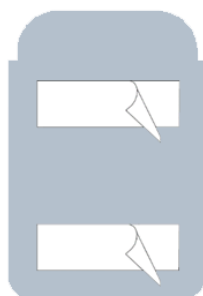
Install the main unit after the bathroom is constructed (to prevent scratches and damage).

Chips generated when opening the wall can cause "rust" and damage.

Disconnect power from the equipment by unplugging the power cord from the electrical outlet during the installation.

Remote Control Holder Installation

1. Wipe off any oil, dirt, or water on the wall mounting surface.
2. Peel off the double-sided tape protective film on the back of the remote control holder.
3. Stick it in the desired position.
 - Install at least 50 mm away from the bathtub.
 - Be sure to stick it on the wall.
 - Do not paste it on the joint part of the wall.



* The holder may vary depending on the model.

AC Power Cord

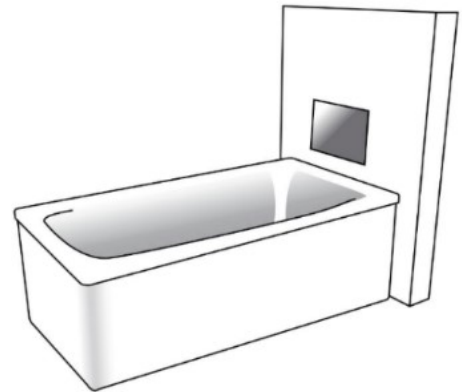
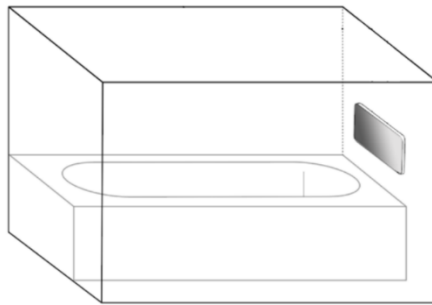


Handle the power cord and outlet carefully in order to avoid any risk of fire, electrical shock or damage and/or injuries:

- The shape of AC power plug, which is supplied with the TV set, varies depending on the regions. Be sure to connect the appropriate supplied AC power cord with the plug that fits into the AC power outlet.
- Insert the plug fully into the AC power outlet.
- When wiring cables, be sure to unplug the AC power cord for your safety and take care not to catch your feet on the cables.
- Disconnect the AC power cord from the AC power outlet before working on or moving the TV set.
- Do not pinch, bend, or twist the wire excessively.
- Do not put anything on the wire.
- Do not pull on the AC power cord itself when disconnecting the AC power cord.
- NEVER touch the plug or power cord with wet hands.

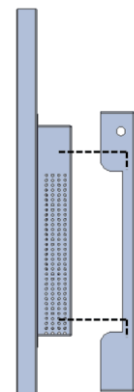
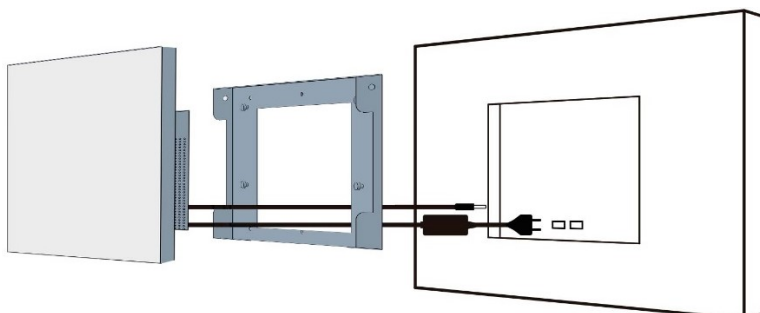
TV Installation

There are 3 optional methods to accommodate TV installations. Please adopt one of them below according to the installation type of your TV.



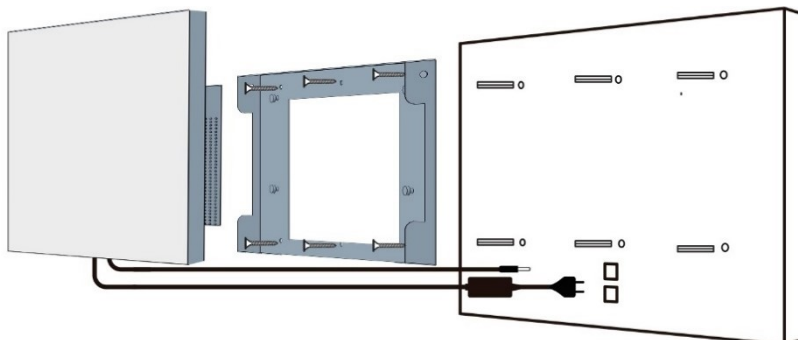
Option 1: In-wall with the Mounting Bracket

1. Create an opening within the chosen area of the wall according to the mounting bracket outlines. Leave enough space for the cables.
2. Set up power and signal circuit and the outlet.
3. Place the mounting bracket into the recess and use the pilot holes to drill into the wall on sides or back.
4. Place the raw plugs into the holes that have been drilled and screw the mounting bracket into position.
5. Organize the cables and offer the TV up to the mounting bracket that is fixed within the wall.
6. Line up the 4 x pilot holes located on the back of the TV case with the 4 x metal lugs located on the mounting bracket and simply push the TV into situ.



Option 2: On-wall with the Mounting Bracket

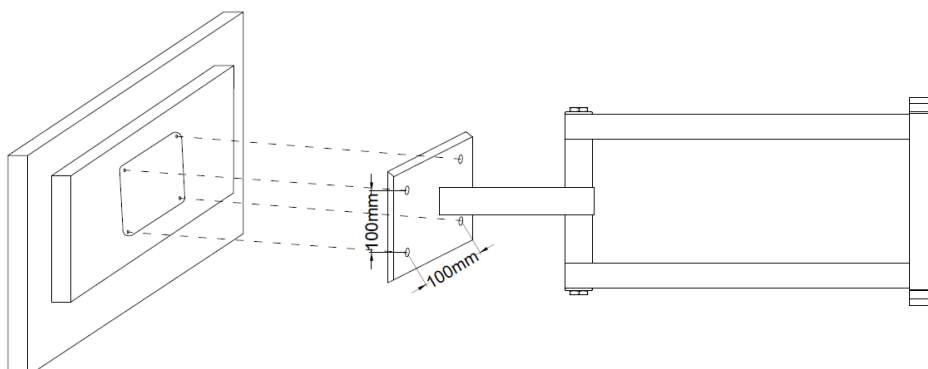
1. Drill holes within the chosen area of the wall according to the mounting bracket outlines.
2. Place the raw plugs into the holes and screw the mounting bracket into position so it is attached to the wall.
3. Set up power and signal circuit and the outlet.
4. Simply offer the TV up to the mounting bracket that is fixed on the wall.
5. Line up the 4 x pilot holes located on the back of the TV case with the 4 x metal lugs located on the mounting bracket and simply push the TV into situ.



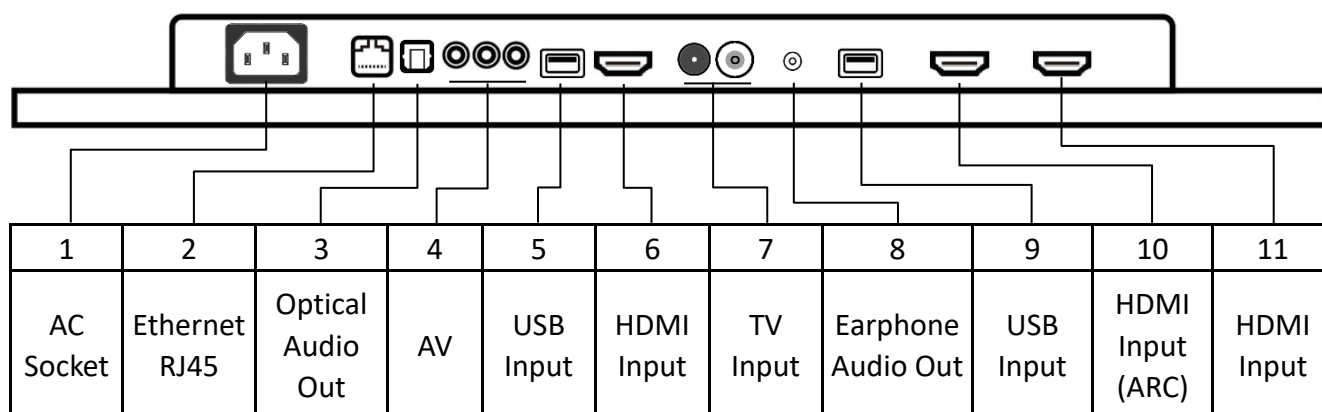
Option 3: On-wall with VESA Bracket

(VESA bracket is not supplied)

1. Drill holes within the chosen area of the wall according to the VESA bracket dimensions, or create an opening within the chosen area of the wall according to the outlines of provided mounting bracket.
2. Place the raw plugs into the holes and screw the VESA bracket into position so it is attached to the wall.
3. Attach the TV set to the VESA bracket and locate the threaded mounting points that are located on the back of the TV.
4. Screw the VESA bracket on the back of the TV.
5. Set up power and signal circuit and the outlet.



Connections



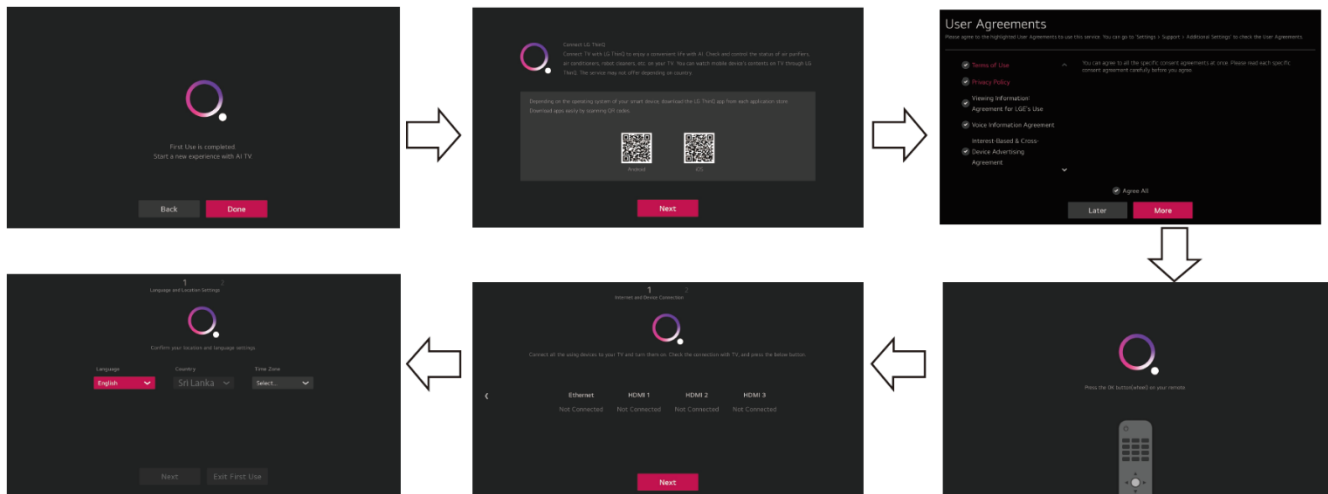
* The ports may vary depending on the model and region.

Turn off and unplug all components before making connections.

LIVE TV PREPARATION

Boot Guide

Choose Region and Language



When you turn on the TV for the first time, there is a default country and language, you can use the remote control to change the default country and language according to the boot prompt.

Home Tutorial

Using the Home Feature of the webOS TV

You can open the **Home** screen by pressing the  button on your remote control.

You can combine frequently used apps on a single screen and use whichever you want at any time.

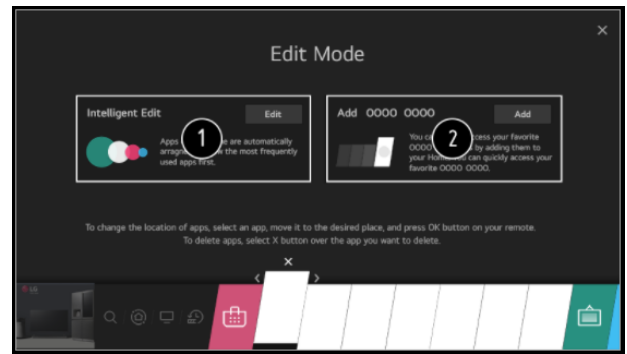
1. Launch Search.
2. Move to the Home Dashboard.
You can select or control a device (mobile, external device, IoT Devices, etc.) connected to the TV.
3. Move to the TV input you used recently.
4. Move to the recently used app.
Long-press the  button on the remote control or focus on the Recents.
You can run or close a recently used app in the list provided in the Preview area at the top.
5. You can run, move, and delete the apps installed on your TV.
Focus on each App area. It provides the Preview at the top.

Managing Home

You can view a list of all apps installed on your TV, change their positions, or delete them.

1. Select the app you want to edit, and press and hold the **Wheel (OK)** button on the remote control.
This will activate the app edit mode.
Or you can select the Edit mode button at the right corner of the Home list to enter the App Edit mode.
2. To move the app to your desired position, go to the position and press the **Wheel (OK)** button.
To delete an app, select the **X** icon above the app.
 - You can move and delete as many apps as you wish before exiting the edit mode.
 - You can also move apps with the /  buttons on your remote control.
3. After the editing is done, press the **X** at the top right to exit the App Edit mode.
 - The default TV app cannot be edited.

- ① You can automatically arrange the app list in the order of most frequently used based on your accumulated app usage pattern.
- ② You can add your favourite video service programme to the list.
 - a) This feature is available only when the network is connected.
 - b) Some models may not be supported.



Watching Broadcast TV

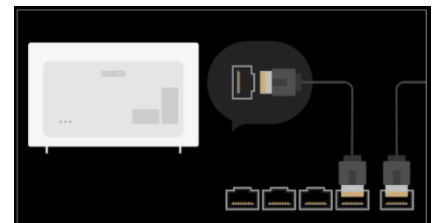
1. Connect the broadcast antenna to the TV
 You can also connect a piece of equipment that can receive broadcasting such as a set-top box instead of the antenna.
 Launch → → **Connection** → **Device Connection Settings** → **Universal Control Settings**.
2. Start the → → **Programmes** → **Programme Tuning (Programme Tuning & Settings)** → **Auto Tuning**.
 Finds and adds only programmes being broadcast.

Network Setting

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

Setting a Wired Network

1. Connect the LAN port of the TV and the router using a LAN cable.
 The router should be connected to the Internet beforehand.
- If the router supports DHCP, the TV is automatically connected to the network when you connect the TV to the network with a LAN cable.



If the Network Is Not Automatically Connected

2. Press the button on the remote control.
3. Select → **Connection** → **Network Connection Settings** → **Wired Connection (Ethernet)**.

Setting a Wireless Network

1. Turn on the power of the router connected to the Internet.
2. Press the button on the remote control.
3. Select → **Connection** → **Network Connection Settings** → **Wi-Fi Connection**.
4. When the network search is complete, the list of networks available for connection is shown.
5. Select a network to connect.
 If your wireless LAN router is password protected, enter the password configured for the router.



Creating LG Account

In **Account Management**, you can use your email address to create a new LG account. Alternatively, you can create and log in to a LG account using the ID and password of an external service account.

Press the  button on the remote control.

Select  → **General Account Management** → **LG Account Sign In**.

Select **Create Account**. Read and accept the **Terms of Service**.

Enter ID and password. Your ID must be your email address.

Enter your date of birth.

If you select **OK**, a verification link is sent to the email address you entered. Please complete the email verification within the validity period.

If email verification is successful, an LG account is created and you can log in with this account information.

- Some models may not be supported.
- Internet connection is required to create an account.
- Required information may vary depending on the country.
- You may be restricted from the service depending on your age.

Managing Your LG Account

You can manage the information of your LG account.

Press the  button on the remote control.

Select  → **General Account Management** to log in.

Personal Information.

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

You can change the password or press Edit to edit your personal information.

Some models may not be supported.

ENJOY LIVE TV

Using Live Menu

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

Press the **LIST** button on the remote control.

Or press the **Wheel (OK)** button on the remote control and select Programmes.



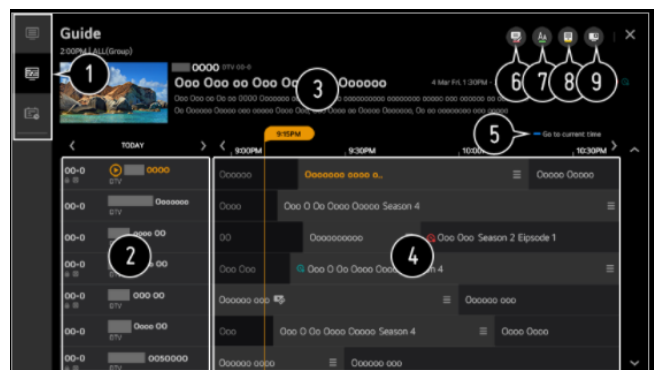
- ① **Programmes**: View a list of broadcast content that is currently being broadcast.
 - ② **Guide**: You can view programmes and the schedule of each programme.
 - ③ **TV Scheduler**: You can enter the time and date of a programme to schedule watching or recording it at the set time.
 - ④ **Recordings**: You can check the recordings stored in the storage device and play the recordings.
 - The menu appears only if an external storage device is connected and the recorded video can be viewed.
- The programmes displayed in Programme List are a configuration of programmes provided by the broadcast service provider. Therefore, if the broadcast service provider has changed its programme configuration without notice, the programmes displayed in **Programme List** may differ from the actual TV programmes.
 - 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 TV Guide

You can view programmes and the schedule of each programme.

Press the remote control's **LIST** button, and select the **Guide** tab on the left side of the screen.

- ① Click on each area, and you can move to the app.
- ② You can view information on the programme and broadcaster.
- ③ You can view information about the programme you are currently watching as well as the focused programme information.
- ④ 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.

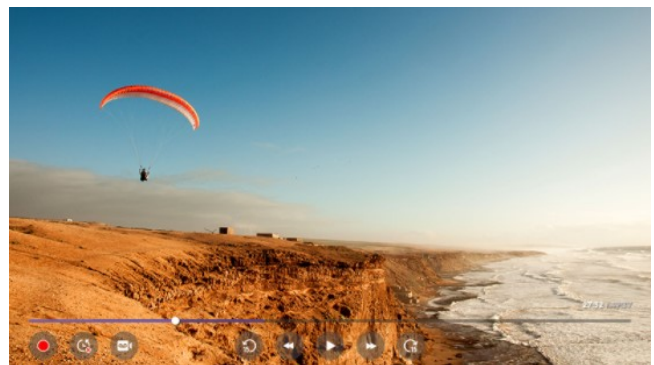


- ⑤ You will be taken to the programme list for the current date and time.
 - ⑥ Launch **Programme Manager**.
 - ⑦ You can change the size of the programme list to adjust the number of programmes displayed on the screen.
 - ⑧ Sets the filter.
 - ⑨ You can turn on/off Mini TV.
- Programme information is not displayed for programmes with no provided broadcast information.
 - Some models may not be supported.
 - The configurable items differ depending on model.

Using Live Playback (Real-time Playback)

It is a function you can use to temporarily save the programme you are currently watching to a USB HDD, so you can play back any scenes you might miss while watching TV. This function allows you to continue watching from where you were previously if you go out for a while.

1. Input the USB HDD in the USB port.
2. Press the **Wheel (OK)** button on your remote control.
3. Press the **Start Live Playback** button at the bottom of the screen.
4. During watching the live broadcast, select a point on the progress bar which you want by the pointer. You can also press the ◀/▶ buttons on your remote control to use this feature. Select a previous point than the current point on the progress bar.



- Live Playback is only available on analog/digital broadcasts. However, you cannot use this option while listening to a radio programme.
- Select a device to be used with Live Playback when two or more USB HDDs are connected to the TV.
- 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.
- The videos saved in Live Playback mode are deleted if you turn off the TV without recording them.
- Changing between programmes during Live Playback will delete the data of the previous programme.
- Some models may not be supported.

Using the Recording Functions

With the webOS TV, you can use recording functions.

Using Instant Recording

1. Connect a USB HDD or USB stick to a USB port.
It is recommended that you record to a USB HDD.
2. During watching the Live broadcast, press the **Wheel (OK)** button.
3. Press the  button at the bottom of the screen.
4. If you want to stop the recording, press the  button.



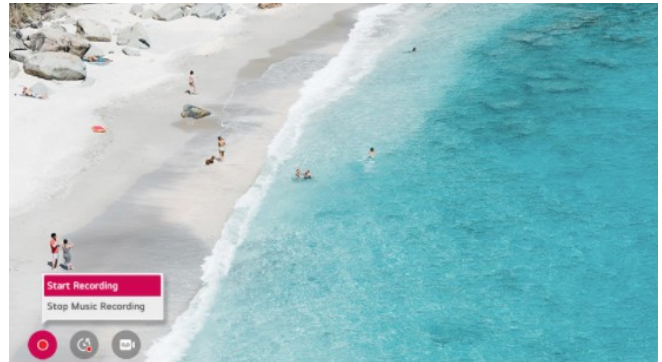
Matters That Require Attention of Recording

- While recording, press the **Wheel (OK)** button to display information about the recording.
- The duration of the recording can be set before the recording starts.
- If multiple USB storage devices are connected, the last recorded storage device is selected automatically.
- 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.
- The recordable time may vary depending on the capacity of your USB storage device.
- Upon the initial attempt to record to the USB memory, the TV will perform a performance test. Start recording after the test has been completed normally.
- Because of the content protection technology used, the recorded video cannot be played on PCs or other TV models. Also, the video cannot be played if the TV's video circuit is replaced.
- Do not remove the USB cable while recording.
- If you force your TV 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 TV off.
- Recording quality depends on the performance of the USB storage device.
- If a USB storage device is faulty, recording may not be completed properly.
- The USB storage device may not work or function properly when a USB hub or extension cable is used.
- The storage device may be used for purposes other than recording, so recording may be interrupted due to a lack of space on the device. Use of a storage device with sufficient space for recording is recommended.
- The configurable items differ depending on model.
- Some functions may not be available while recording is in progress.
- 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.

Using Music Catch

It is a function you can use to record the music from the TV any time.

1. During watching the Live broadcast, press the **Wheel (OK)** button.
2. Press  button on the bottom left corner of the screen.
3. Press the **Start Music Recording** button.
 - Select a device to be used with recording the music when USB HDD is connected to the TV.
 - 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 **Music** app, and you can open them on your PC or portable devices.
 - Recorded files are stored in aac or mp3 format. (The storage format varies depending on the TV 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

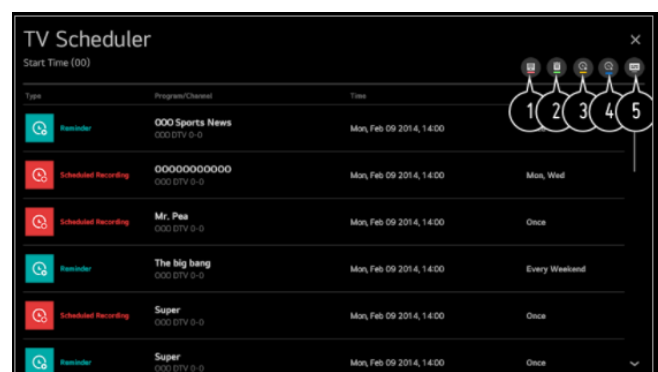


Using TV Scheduler

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

1. Press the remote control's **LIST** button, and select the **TV Scheduler** tab on the left side of the screen.
2. Select the  at the top right.

- ① You can change the alignment order or apply the filter.
- ② You can set the Delete Mode.
- ③ You can set the New Scheduled Recording.
- ④ You can set the New Reminder.
- ⑤ Launch **Guide**.



Schedule by Programme

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

1. Press the remote control's **LIST** button, and select the **Guide** tab on the left side of the screen.
2. 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 as the information of broadcaster.
- Applies to Digital broadcasting.

Manual Scheduling

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

1. Press the remote control's **LIST** button, and select the **TV Scheduler** on the left side of the screen.
 2. Select the  at the top right.
 3. Select the  or the  at the top right.
 4. Select **CREATE MANUALLY**.
 5. Set the date, time, and programme to record or watch.
- The length of the scheduled recording should be at least 1 minute.

Playing Recorded TV Programs

Managing Recordings

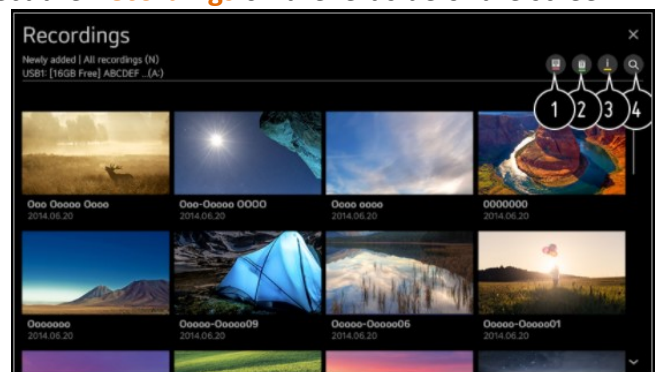
You can view and play recordings stored on storage devices by using the Recordings app.

1. Press the remote control's **LIST** button, and select the **Recordings** on the left side of the screen.
2. Select the  at the top right.

- ① Select the storage device to play, the type of recording, sorting method, and the view type.
- ② Select and delete the desired content.
- ③ Display detailed information of the content.
You can change the title of the content in the detailed information pop-up.

- ④ Launch **Search**.

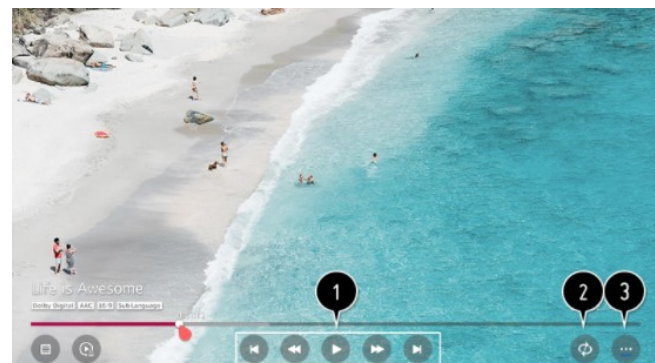
1. You can only play recordings made on the current TV in Recordings.



Playing Recordings

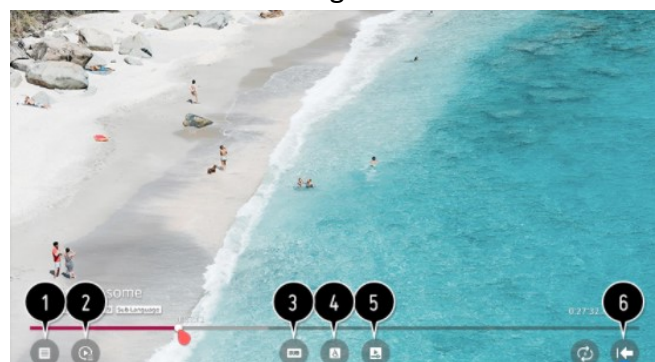
You can access and operate basic features such as playback and pause on the playback screen.

1. Select your desired recording from the **Recordings** app.
 2. You can control the playback of your desired recording by pressing the **Wheel (OK)** button during playback.
- ① You can operate basic playback-related features.
 - ② You can do the settings related to play on repeat of the video.
 - ③ This switches you to a screen where you can set up additional features.



Setting up Additional Features

1. Press the **Wheel (OK)** button during the playback of the desired recording.
 2. Select  on the screen
- ① Return to **Recordings**.
 - ② Display recordings list below thumbnail image while recording playback.
 - ③ Turn subtitles on or off.
 - ④ Select audio language that can be output.
 - ⑤ You can set continuing watching to resume playing from the last viewed scene.
 - ⑥ Returns to the basic operation screen.
- The configurable items differ depending on model.



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 teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems.

1. Press the **...** button on the remote control.
2. Select **Teletext**.
3. The TELETEXT window appears.
4. To view TV broadcasts and TELETEXT at the same time, press the More Actions 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

1. Press the **...** button on the remote control.
2. Select **Teletext Option**.
3. Select the **TELETEXT** menu.

Index

Select each index page.

Time

When viewing a TV programme, select this menu to display the time at the top right hand corner 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.

1. Press the  button on the remote control.
2. Select  → **General** → **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

What is HbbTV

HbbTV (Hybrid Broadcast Broadband TV) is a new broadcasting standard that enables super-teletext type services, delivered by a broadcast TV programme, to be integrated or linked to online services delivered over broadband to a connected Smart TV. Consumers are therefore able to access various online services such as catch-up TV, Video on Demand (VOD), programme related applications and other rich information services in addition to traditional digital teletext services, all directly on to the TV in a seamless experience. HbbTV services can be activated in a number of ways, the most popular being pressing the . Users typically explore services with the traditional navigation keys (including the OK button and the    ). The current version of the HbbTV specification also includes support for “adaptive streaming” of video over a broadband connection thus guaranteeing the best possible image quality for the viewer. For more information about HbbTV, visit www.hbbtv.org

- Some models may not be supported.

To Use HbbTV

 →  → **Programmes** → **HbbTV**

Sets HbbTV to On.

Enjoy a wide variety of content from HbbTV enabled services.

- Service features may be limited when the TV is not connected to the internet.
- 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 your broadcaster chooses 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.

ENJOYING CONTENT STORE

Content Store

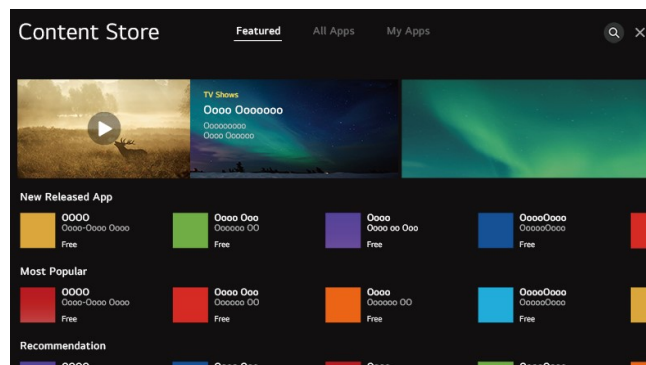
Using Content Store

You can download and use apps from various categories such as education, entertainment, lifestyle, news, and games.

1. Press the  button on the remote control.
2. Launch **Content Store**.

- Depending on the model, the provided contents may differ or some features may be limited.
- 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** → **Safety** → **Application Locks**.



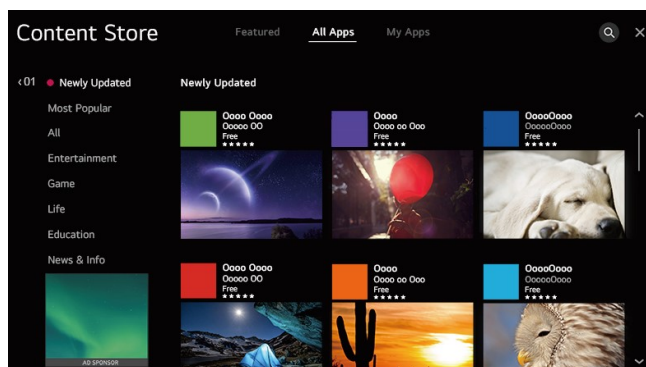
Installing Apps

You can install various apps on your TV from the **Content Store**.

1. Press the  button on the remote control.
2. Launch **Content Store**.
3. Select **All Apps** category shown at the top of the screen.

The list of available apps in the selected category will be shown.

4. Select an app to set up from the list.
5. Read the details of the app and then press **Install**.
6. When the installation is complete, you can run the app immediately.



- Available categories may vary depending on the country or service status.
- If the storage on your TV is insufficient, you can install the apps by connecting an external memory device.
- Some USB storage devices may not be supported or may not work properly.
- USB stick containing apps from other TVs may not be used.
- You can delete apps you have downloaded in **My Apps**.

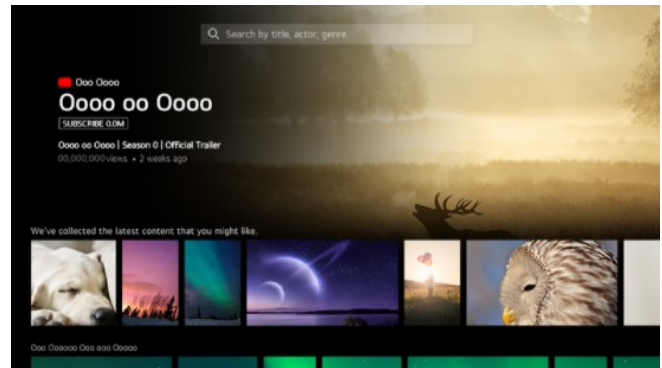
Content Recommendation

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

If you are watching the TV using a set-top box, you must complete the setup of the universal remote control to use the recommendation feature normally.

1. Press the  button on the remote control.
2. Launch .

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

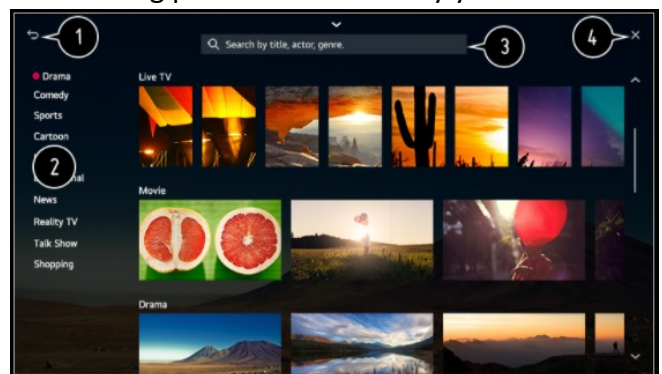


Content Search

You can receive recommendations for content based on viewing patterns or search by yourself for the content you want.

1. Press the  button on the remote control.
2. Launch .
3. Search for a variety of content and information using the desired search terms.

- ① Returns to the previous screen.
- ② Provides a list of content for the selected genre.
- ③ Enter a search term.
- ④ Exit the Search.



- 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.

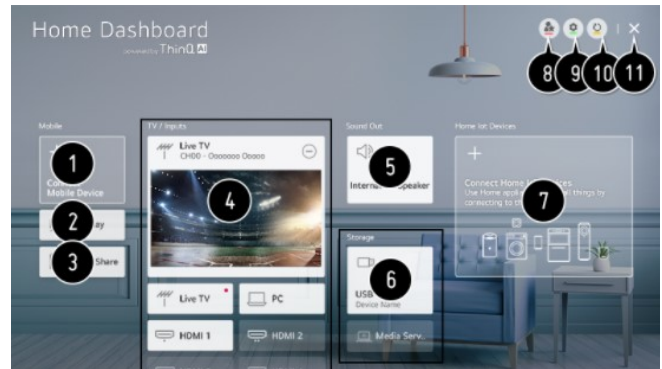
CONNECTING EXTERNAL DEVICES

Using Home Dashboard

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

Press the  button on the remote control and select **Home Dashboard**.

You can also press and hold the  button on the remote control.



- ① You can check and select the smart device connected with the LG ThinQ app.
- ② Use AirPlay/HomeKit to control your TV and watch content from your iPad or Mac on the TV screen.

The availability of and access to Contents and Services in LGE Device are subject to change at any time without prior notice.

- ③ You can play sound from a smart device connected via Bluetooth.
- ④ You can check and select the external device connected through the external input port or network.
- ⑤ The currently selected output speaker is displayed, and you can navigate to the output speaker settings screen.
- ⑥ You can view and select the connected storage device.
- ⑦ You can check and control the device connected via the Home IoT.
- ⑧ You can easily control your device by presetting the desired operations.
- ⑨ **Sign In**: You can log in/out to and from the LG ThinQ account you created on mobile.
Edit: You can edit the name of the device connected to **Inputs** or **Home IoT Devices** or configure the related settings.
- ⑩ It refreshes the device list
- ⑪ Exit the **Home Dashboard**.

- Available settings vary depending on the model or region.

Mobile Connection

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

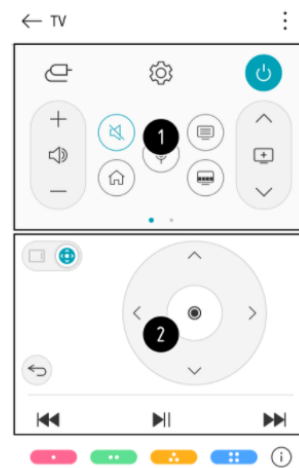
Connecting Your Smart Device to the TV Using the LG ThinQ App

1. Download the LG ThinQ app from the app store of your smart device.
2. Connect your TV and smart device to the same Wi-Fi network.
3. Run the LG ThinQ app installed on your smart device.
4. Follow the instructions from LG ThinQ app to connect your smart device to the TV.
When your account information of LG ThinQ is linked to the TV, you can manage the IoT devices linked to your account using **Home Dashboard** of the TV.
5. If you register LG ThinQ in the app of the Smart Speaker you want to use, you can also use it with a voice command through Smart Speaker.

Controlling Your TV with the LG ThinQ App

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

- ① When watching a broadcast, you can control the programme, volume, etc. or select the external input with voice commands instead of using the remote control.
- ② You can use the same functions as the Magic Remote's pointer and arrow keys.
 - 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.



To See the Mobile Device's Screen on the TV

1. Enable Screen Share mode on the mobile device.
 2. Your TV will be displayed in the list of available devices.
 3. Select your TV and request connection.
 4. Select **Accept** in the connection request popup window.
 5. After the connection is established, the TV will display the screen of the connected device.
 - When you connect **Screen Share** for the first time, a popup will appear which allows you to select **Decline**, **Accept** or **Block**.
 - Decline**: Do not connect the device. If you try to connect again, the popup will appear.
 - Accept**: You can connect the device. No connection popup will appear from the second time.
 - 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 cancel **Block**, go to → → **Connection** → **Mobile Connection Management** → **Screen Share**.
- It is recommended that you always update your device to be connected to your TV to the latest OS version for a reliable connection.
 - A non-LGE device may not be connected even when it is detected.
 - 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's differed 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 TV and the device you want to connect to, then turn them back on and try again.

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

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

1. Turn the smart device's Bluetooth on, then select the TV from the list of devices.
2. The TV will be connected to the smart device.
 - If the output speaker is set to **Bluetooth** or has a setup history, the TV may not be detected in the list of smart devices.
 - If the output speaker is set to **Bluetooth**, press and hold the button on the remote control to launch **Home Dashboard**, and then select **Sound Share** in the Mobile area to connect.

Connecting USB

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

Tips for Using a USB Storage Device

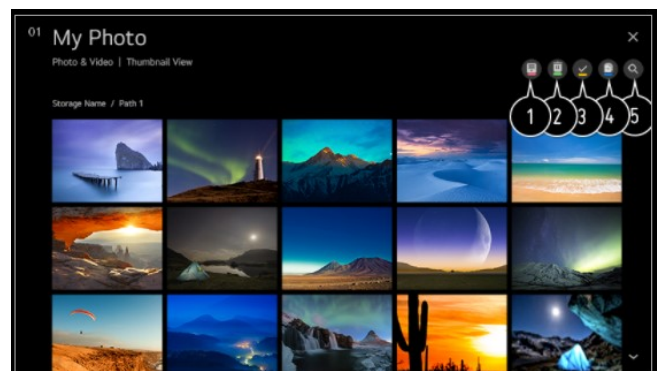
- A USB storage device that has a built-in automatic recognition programme or uses its own driver might not be recognizable.
- Some USB storage devices may not be supported or may not work properly.
- If you use a USB extension cable, the USB storage device may not be recognized or may not work properly.
- Please use only USB storage devices formatted with the FAT32 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.
- It is recommended that you use a USB stick of 32 GB or less or a USB hard disk of 2 TB or less.
- 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 your TV or storage device.
- When you connect a USB storage device of a file system not supported by the TV to the **USB IN** port, the format message appears. To use the connected USB storage device, you should format the device first.
After formatting, all the data of USB storage device will be deleted and formatted as NTFS or FAT32 file system.
- Press and hold the  button on your remote control. Select the connected USB from **Home Dashboard** → **Storage** and select the **Format** button to format the USB storage device.
- When connecting a USB storage device, a random file/folder can be created to provide Smart TV services such as the saving and retrieving of thumbnail images.

Playing Photos and Videos

Viewing Photos and Videos

You can view photos and videos using the **Photo & Video** app.

1. Press the  button on the remote control.
 2. Run the **Photo & Video** app.
 3. Select your desired storage device.
 4. Select and view your desired photo or video.
- ① Select your desired type of content and viewing method.

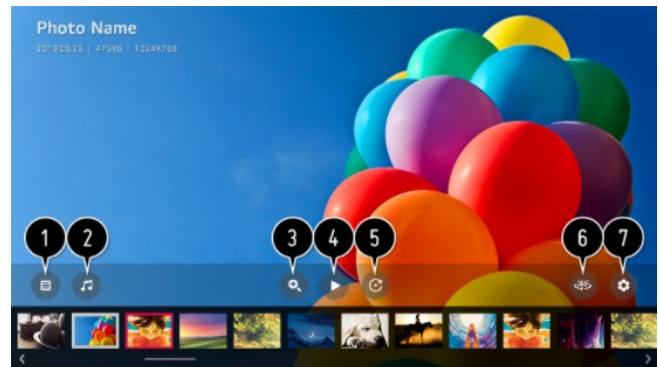


- ② Select and delete the desired content.
 - You cannot delete files that are shared from other devices.
- ③ Select the content you want to play. You can only select the same type of content as you first selected.
- ④ You can copy content to a USB storage device.
 - Some models may not be supported.
- ⑤ Launch **Search**.
 - Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Photo Player

Selecting a photo in the **Photo & Video** app runs the photo player. You can view your saved photos

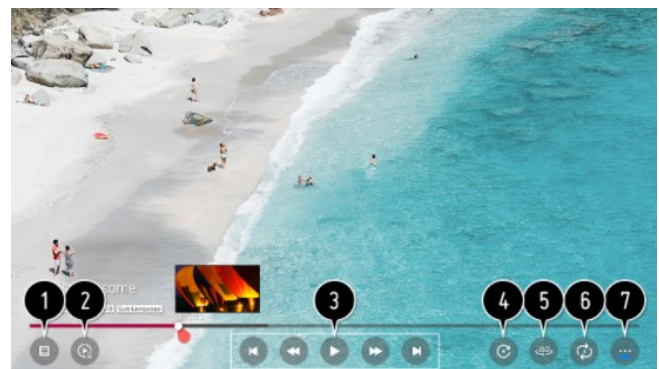
- ① Returns to the entire content list.
- ② You can play background music by running the music player.
- ③ You can zoom in/out of the photos.
- ④ Starts the slide show.
- ⑤ Rotates photos.
- ⑥ 360-degree photos can be viewed in 360 degrees.
 - Using the 360° VR Play on a normal photo may distort the image.
 - Some models may not be supported.
- ⑦ You can set the size of a photo or change the speed and effect of a slide show.
 - Some models may not be supported.



Video Player

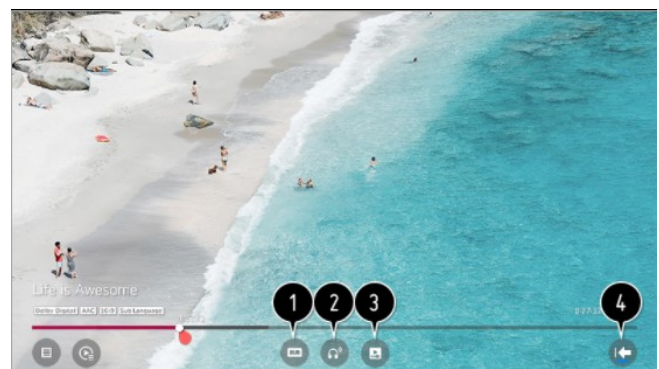
Selecting a video in the **Photo & Video** app runs the video player. You can view your saved videos.

- ① Returns to the entire content list.
- ② You can select other content by displaying the playlist while watching a video.
- ③ You can control basic video playback functions.
- ④ Rotates videos.
 - Some models may not be supported.
- ⑤ 360-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.
- ⑥ You can do the settings related to play on repeat of the video.
- ⑦ You can set additional options.



Setting Additional Options

- ① You can change subtitle settings.
- ② You can set audio tracks.
- ③ You can set continue watching to resume playing from the last viewed scene.
- ④ Returns to the basic operation screen.



Playing Music

Playing Music

You can listen music by using the **Music** app.

1. Press the  button on the remote control.
2. Run the **Music** app.
3. Select your desired storage device.
You can select your desired songs from all of your storage devices and add them to **My Playlist**.
4. Select your desired music content and enjoy it.

- ① Select the desired type of content list.
- ② Select and delete the desired content.
 - You cannot delete files that are shared from other devices.
- ③ Select content and add it to **My Playlist**.
- ④ You can copy content to a USB storage device.
 - Some models may not be supported.
- ⑤ Open the music player.
- ⑥ Launch **Search**.



Using the Music Player

You can play music conveniently by selecting the music files saved in the **Music** app or by selecting the music player icon during content playback in apps such as **Photo & Video**.

- ① You can play music from the selected storage device.
 - ② You can set repeat playback and random playback.
 - ③ The configurable items differ depending on model.
Screen Mode: You can turn the screen off while listening music or display the music player in full screen mode.
Screen Off: You can listen music with the screen turned off.
 - ④ You can change the position of the music player.
 - ⑤ You can minimize the music player.
 - ⑥ This feature closes the music player.
 - ⑦ 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.
- Reopen your music player by pressing the VOLUME key on your remote control.
 - You may not be able to use the music player for some features.



Using Home IoT Devices

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

1. Install LG ThinQ app on your smartphone.
2. Log in to your LG ThinQ account, and register your own LG ThinQ device.
3. Press the  button on the remote control and select **Home Dashboard**.
4. Press the  at the top right to select the **Sign In**.
5. Log in to your LG ThinQ account. A list of the registered LG ThinQ devices will appear.
 - If the LG ThinQ app is not serviced in the region, select **Connect Home IoT Devices** and set it as instructed.
 - To register your OCF (Open Connectivity Foundation) Supporting Device or other IoT devices, select **Connect Home IoT Devices** and configure settings following instructions.
 - If you are controlling the external device from your mobile app, you might not be able to control the device from your TV. Quit the mobile app to control it from your TV.

① You can easily control your device by presetting the desired operations.

② You can log in/out to and from the LG ThinQ account you created on mobile.

③ **Edit List:** You can rename, **SHOW/HIDE** or change the order of the devices connected to **Home IoT Devices**.

Notification: If you turn it On, you can receive notifications about the status of the Home IoT Devices.

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

④ You can control your TV by connecting to an external Smart Speaker.

⑤ You can check the connection guide for **Home IoT Devices**. You can connect and display the devices registered to your LG ThinQ account, your OCF (Open Connectivity Foundation) Supporting Device, and other IoT devices.

Once the device is connected, the card will be changed to a smaller size and appear at the bottom of the device connection list.



- Available settings vary depending on the model or region.
- Only some of LG ThinQ and OCF (Open Connectivity Foundation) Supporting Device are supported.
- When resetting the TV, it also requires resetting the OCF (Open Connectivity Foundation) Supporting Device connected to the set.

Watch content saved in your PC on the TV

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

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

1. Connect your TV and PC to the same network.
 2. Right-click the file you want to play and select "Cast to Device".
 3. Select the name of the TV you want to watch from the displayed list, and playback will start on that TV.
- Even when multiple TVs or devices are connected, the selected file is 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 TV (Windows 10)

1. Connect your TV and PC to the same network.
 2. Open the "Start" menu on your PC screen, search for "media streaming options" and then select the result that appears.
 3. Select the "Turn on media streaming" button in the window that opens.
 4. Allow all of the "media streaming options".
 5. Select "OK" to save the settings.
 6. Select the connected PC in the **Home Dashboard** app on the TV, and then select and play the file you want.
- To play on other operating systems or devices, refer to the manual of the operating system/device.

Matters That Require Attention of Content Share

- Check your network settings if the content share option does not work properly.
- May not work properly on a wireless network. It is recommended that you connect to a wired network.
- May not work properly depending on the network environment.
- If multiple TVs are connected to one device, the content may not be played properly depending upon server performance.
- To watch a 1080p video through the content sharing function, a router using the 5 GHz frequency is required.
- The Content Share function may not be supported for a router that does not support multi-cast.
- Captions are only supported on some connected devices.
- SmartShare PC software is recommended for reading captions.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the TV, the supported file format may differ depending on the connected device environment.
- If there are too many folders or files in a folder, it may not work properly.
- The information on the file imported from the connected device may not be displayed correctly.
- Depending on the encoding, some streams may not play in content sharing mode.

Share Computer Screen

To See the PC Screen on the TV

Connect Wireless

1. Enable Screen Share mode on the PC. Your TV will be displayed in the list of available devices.
2. Select your TV and request connection.
3. After the connection is established, the TV will display the screen of the connected device.
 - It is recommended that you always update your device to be connected to your TV 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 mobile device or PC connected to the same network as the TV.
 - Though it can be connected without a wireless router, connecting your device to a 5 GHz router is recommended because the performance can be affected by the surrounding wireless environment.
 - The response rate may vary depending on the user's environment.
 - It's differed 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 TV and the device you want to connect to, then turn them back on and try again.

Connect Wired

Connect the PC with TV by HDMI cable.

BENEFITS OF SMART TV

Using the Web Browser

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

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

1. Press the  button on the remote control.
2. Run the **Web Browser** application.

Using Sports Alert

1. Press the  button on the remote control.
2. Run the **Sports Alert** app.
3. Select **Add My Team** to add desired sports team to My Team.

You can check the match schedule of the registered team or set an alarm.

 - The match schedule or status may differ from actual ones depending on the circumstances of the data provider.
 - Real-time alarm may not be available when using certain apps.
 - This feature is available only when the network is connected.
 - Some models may not be supported.

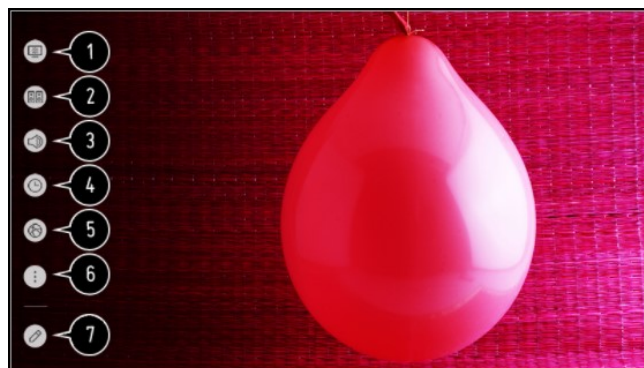
SETTINGS

To Use Setting Function Quickly

Set of light-weight controls quickly and simply such as **Picture Mode**, **Sound Out**, **Sleep Timer** and so on.

Press the  button on the remote control.

- ① You can set **Picture Mode**.
 - ② You can set **Sound Mode**.
 - ③ You can choose **Sound Out**.
 - ④ You can set **Sleep Timer**.
 - ⑤ Move to the **Connection** screen.
 - ⑥ You can set more options.
 - ⑦ You can add/delete the quick setting items or change their order.
- After entering each item, press and hold the **Wheel (OK)** button on the remote control to go to the corresponding menu.



Overview of Setting Items

General	Picture	Sound	Accessibility
AI Service	Picture Mode	Sound Mode Settings	Audio Description
Language	Picture Mode Settings	Sound Out	Audio Type
Location	Advanced Controls	TV Installation Type	Additional Audio
Time	Picture Options	Volume Mode	High Contrast
TV Rating Locks	Aspect Ratio Settings	DTV Audio Setting	Grayscale
Programme Locks	Energy Saving	AV Sync Adjustment	Invert Colours
Application Locks	Eye Comfort Mode	HDMI Input Audio Format	Hard of Hearing
Input Locks	HDMI ULTRA HD Deep Color	LG Sound Sync	Subtitles
	Instant Game Response	Digital Sound Out	
	AMD FreeSync Premium		
	FILMMAKER MODE Auto Change		

Programmes	Connection	Support
Auto Tuning	TV Name	Software Update
Manual Tuning	Network Connection Settings	TV Information
Signal Test	Device Connection Settings	Notifications
Programme Manager	Mobile Connection Management	Additional Settings
Multi Feed		Reset to Initial Settings
HbbTV		

TROUBLESHOOTING

Perform Check-up with the Quick Help

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

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

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

Optimisation Settings

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

Check Items

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

- **Self-Diagnosis of TV Settings:** Select the item that matches the symptom to find instructions that can help you solve the problem.
- **Check the status of TV:** You can check your TV's current status for the selected item.

LG Remote Service

You can get help for troubleshooting through the remote control.

- Some models may not be supported.
- When there is no related content in the **Quick Help**, please refer to the **Troubleshooting** in **User Guide**.
- If you still fail to solve the problem, please contact our Customer Service Centre.

Power/Remote Control Errors

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 TV.

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

The screen does not appear for some time after power-on.

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

The pointer of Magic Remote is not appeared in the screen.

- Hold the remote control towards the TV and long-press **GUIDE** button until the instruction appears. The previously registered remote control is deregistered and then registered again.
- Replace the batteries when you are prompted to do so on your TV screen. (Use alkaline batteries.)
- If  →  → **Accessibility** → **Audio Guidance** is set to **On**, the pointer of the Magic Remote does not appear. Set **Audio Guidance** to **Off**. (Some models may not be supported.)

I cannot turn the TV on with the remote control.

- Please make sure your TV power plug is correctly connected to the outlet.
- Replace the batteries in the remote control. (Use alkaline batteries.)
- Check whether there are any obstacles in front of the TV's remote control sensor. Sound bars or other obstacles placed in front of the TV's lower receiver may obstruct IR signal reception.

The power turns off suddenly.

- Check whether the **Power Off Timer**, **No Signal Auto Off** or **No Operation Auto Off** is set.
- The TV will be turned off automatically if you do not press any buttons for 4 hours even after the TV is turned on at the time set by **REMINDER** or **Power On Timer**.
- There is also a chance that the internal protection circuitry has activated because the internal temperature of the product has risen unusually or excessively.

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  →  → **Support** → **Additional Settings** → **Picture Test** for checking any abnormalities in the TV.

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

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

It says there is no signal on the screen.

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

I cannot see some programmes.

Start the  →  → **Programmes** → **Programme Tuning** (Programme Tuning & Settings) → **Auto Tuning**.

- If you are using a set-top box, consult its supplier.

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

- Connect wireless telephones, hairdryers, electrical drills, etc. to a different power outlet. The problem may be caused by high-frequency electronic devices such as another TV or strong electro-magnetic sources nearby.

There is a difference in picture quality for each programme.

- 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 **Picture Test** 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 **Picture Test** 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.
-  →  → **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.

I see vertical lines in all four edges of the screen, or the colours are blurred when I try to connect to HDMI.

-  →  → **Picture** → **Aspect Ratio Settings** → **Just Scan**
Set **Just Scan** to **Off**.
Just Scan shows you the original image as it is. You may see noise in all four directions on the screen if the signal contains noise.

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  →  → **Picture** → **Additional Settings** → **HDMI ULTRA HD Deep Colour**.

The screen looks too dim or dark.

-  →  → **Picture Picture Mode Settings Picture Mode**
Switch **Picture Mode** to your desired picture mode. (**Standard**, **Vivid**, etc.)
This applies to the current input mode only.
-  →  → **Picture** → **Picture Mode Settings** → **Picture Options** → **Motion Eye Care**
Switch **Motion Eye Care** to **Off**. This applies to the current input mode only.
-  →  → **Picture Energy Saving**
Switch **Energy Saving** to either **Off** or **Minimum**.
-  →  → **Picture Additional Settings Eye Comfort Mode**
Switch **Eye Comfort Mode** to **Off**.

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

- Check the input mode or cable connection.
- Go to  to choose the connected input.

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.

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  →  → **Support** → **Additional Settings** → **Sound Test** for checking any abnormalities in the TV.

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

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

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

- Try another programme.
- If you use a set-top box, there will be no sound if you have set the volume of the set-top box or your TV to 0 or enabled Mute. Set the volume to an appropriate level.
-  →  → **Sound** → **Sound Out**
Set the **Sound Out** to **Optical + Internal TV Speaker** or **Internal 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** → **Sound Mode Settings** → **Balance**
Adjust the balance as necessary with the Navigation button in **Balance**.
- When you are connecting to the AV IN/COMPONENT IN, check if the audio left/right (white/red) cables are correctly connected. (AV IN/COMPONENT IN ports are available in certain models only.)

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

- If this happens on only some of the 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** → **Additional Settings** → **AV Sync Adjustment** 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** → **Additional Settings** → **Volume Mode** → **Auto Volume**
Set **Auto Volume** to **On**.
- If you are using a set-top box, consult its supplier.

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

(Programmes produced for export by broadcasting companies)

- **Wheel (OK)** → 
Set your language preference in **Audio Language**.

PC Connection Issues

Press and hold the  button on your remote control. Select  → **Edit** in the upper right corner of **Home Dashboard**. In the Edit mode, set the icon of the HDMI terminal connected to the PC to **PC** to apply the video and aspect ratio settings that are aligned with the PC.

To connect a different device to the same input terminal, you need to set the icon again because the settings of the Edit icon will not be automatically restored.

If you experience any of the problems below while using the product, please check the following:

There may be no problem with the product.

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

- Check that the PC is properly connected to the TV.
- Turn the TV off and back on using the remote control.
- Restart the PC with the TV on.
- Make sure that the output resolution set on the PC is set to the HDMI-PC supported resolution of the TV.
- To use dual monitors, check that the PC or notebook supports dual-monitor mode.
- Reconnect the HDMI cable.
- If you have connected the RGB output port of your PC to the HDMI IN of your TV, you need a RGB to HDMI gender.

You will not see anything on the screen if you use an HDMI to RGB gender.

The screen is cut off or moved to one side after it is connected to a PC.

- Set the PC's resolution to one supported by the TV.
- Set the connected HDMI device's name to PC.

Press and hold the  button on your remote control. Select  → **Edit** in the upper right corner. Change the icon of the HDMI port connected to **Inputs** to PC and select **Save**.

The sound does not play when the PC is connected with an HDMI cable.

- Set TV as the default device in Sound → Playback in Control Panel of PC settings.
- Consult your PC manufacturer on whether your graphics card supports HDMI audio output.

Recording Issues

How do I start recording?

- Connect a USB storage device with at least 4 GB of total space. The device must have at least 1 GB of available space.

Press the **Wheel (OK)** button on your remote control. Press the  that appears on the bottom left of the screen to start recording.

Which signals support recording?

- Real-time and scheduled recordings are available only for programmes received directly by the TV.
- Programmes from the set-top box cannot be recorded.
- Protected content is not recorded.

Is **SCHEDULED RECORDING** possible even if the TV is off?

- **SCHEDULED RECORDING** starts and completes recording at the set time even if the TV is off.
- **SCHEDULED RECORDING** does not function if the TV's power plug is unplugged.

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.

I cannot find a file in the **Photo & Video**.

- Check whether the files saved on your USB storage device can be read by the PC.
- Select  to see if **Filter** is set to **Photo & Video**.

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 code 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.
- Select  →  in the control panel at the bottom of the video playback screen 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.
- Subtitles are not supported if you are playing video through an NAS unit. Consult your NAS manufacturer.

My USB storage device is not recognized when connected.

- Check whether it is a USB storage device supported by the TV.

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.

You can check the network connection status as shown below.

-  →  → **Connection** → **Network Connection Settings** → **Wired Connection (Ethernet)**
-  →  → **Connection** → **Network Connection Settings** → **Wi-Fi Connection** → **Advanced Wi-Fi Settings**



When X appears next to TV

- Check the TV or the AP (Router).
- Check the connection status of the TV, AP (Router) and cable modem.
- Power off and power on in the following order;
 - a) Turn your cable modem off and back on, and wait for the device to reset.
 - b) Turn the wired/wireless router off and back on, and wait for the device to reset.
 - c) Turn the TV off and on.
- If you want to establish a wired LAN connection, check whether an IP address can be obtained from your router properly. If you are setting up your network manually, check whether all settings are correct.
- If you want to establish a wireless connection, check the following points as well.
 - a) Set your router's SSID (network name) or wireless channel.
 - b) 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 using a static IP, enter the IP directly.



When X appears next to Gateway

- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.
- Initialize (Reset) 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.



When X appears next to DNS

- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.
- Initialize (Reset) the AP (Router) or cable modem.
- Check that the MAC address of the TV/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the pane of the network status window should be registered with your Internet service provider.)

LG Account Issues

I've signed up for the membership on TV. Do I have to sign up again on the website lgappstv.com?

- You can use the website with the membership information that you used when signing up on TV. You can use the website by logging in to the website with the ID and password you used when signing up on TV, entering additional information and completing the email verification process.

I forgot my password. What should I do?

- On the TV's login screen, select the **FORGOT PASSWORD?** button to go to the find password page. Enter your email address on the find password page, and we'll send you a link to reset your password.
- You can also reset your password in LG Account Reset Password on the website (www.lgappstv.com).

In some countries, access to the website (www.lgappstv.com) may be restricted.

Contents Issues

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** → **Location** → **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 **Content Store** and re-install it. Go to  → **Content Store** 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.

Internet Browser Issues

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
- You cannot save attachments or images.
- If the **Use Block Ads** feature is turned on, the area on the website that appears to show an ad will appear blank. If some content on the website is hidden and invisible, try  → **Settings** → **Use Block Ads** to **Off** in **Web Browser**. **Sponsored AD** on the new tab page will be displayed even if you set the **Use Block Ads** feature to **Off**.

The Internet browser automatically shuts down when I visit a website.

- The Internet browser may be forced to shut down if the available memory size is not sufficient to accommodate the image information for a website.

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.

WARRANTY

Our televisions are guaranteed to be free from defects in parts and manufacture for one year from the date of purchase, provided that the product is used under the normal operating conditions.

- The warranty is only available to the original purchaser and is not transferable. Your consumer rights are not affected.
- If there are any defects with your television, please contact the provider stating your invoice number, date of purchase, full name and address.
- Do not attempt to repair or take apart the television yourself. If the television has been tampered with before it arrives with us, the warranty will be void.
- We advise that all customers retain original packaging should the unit need to be returned.
- If your television occurs a problem outside of the warranty period, we offer a repair service where we can collect and professionally repair your television.

- Exceptions to Warranty:

We do not warrant the Products against defects arising out of the following:

- A. Lack of proof of original proof of purchase.
- B. Product's extended use, including particularly, commercial applications, where a Product is operating on average more than twelve (12) hours per day on a permanent or extended periodic basis;
- C. Circumstances, damage (including concealed damage) or other conditions occurring during shipment of a Product or at any time after a Product leaves our facility;
- D. Improper, incorrect, or insufficient AC supply voltage to a Product;
- E. Alterations, modifications, including use of unauthorized mount;
- F. A Product's misuse, neglect use, abuse, or improper operation, including the failure to follow a Product's normal and ordinary operating instructions;
- G. The improper or faulty installation, setup, or adjustment of a Product;
- H. A Product's repair, attempted repair, or total or partial disassembly by any party other than us or our authorized service representatives;
- I. Corrosion that does not affect the performance of a Product or the reasonable cosmetic appearance of a Product;

FREQUENTLY ASKED QUESTIONS

Why can't I just install a regular television in my bathroom?

A regular television is designed for use in dry areas, such as your living room or bedroom. They are not waterproof. The rear of the television is vented to allow for cooling; however, these vents will also allow moisture and condensation to accumulate inside the television. This can be extremely hazardous, with risks to the television shorting and potentially causing an electrical malfunction or fire.

The waterproof TV is a completely sealed design, engineered for use in wet areas. It is rated IP65 or higher and can withstand not only moisture, but also water from any direction.

What is the difference between a waterproof TV and a weatherproof outdoor TV?

The waterproof televisions are designed for indoor use. They are a completely sealed design, rated IP65 or higher, and are capable of withstanding water from any direction.

Outdoor weatherproof televisions are quite different, as they not only have to deal with water, but also sunlight and are exposed to the environment. For this reason, they have a number of specific features: Built in cooling systems ensure that the TV does not overheat under the sun.

Anti-reflective glass reduces glare caused by high ambient light.

Powder coated to ensure long term survivability in the elements.

High brightness LED TV panel so the screen can be easily viewed during the day.

Anti-theft mounting hardware secures your investment from theft.

What warranty do you provide?

Our standard warranty provides 12 months of cover. Ask us for updated warranty and more information when you purchase your television.

How easy are the products to install?

This depends on the television models and the installation method you are interested in.

For the models that are designed to be installed and recessed into your wall. It therefore requires a cavity to be cut into your wall, with size of cavity depend on the size of television you purchase. It is recommended that power and input cables are made available adjacent to the cavity opening inside the cavity. This will give you a seamless looking installation.

The on-wall mount method uses mounting hardware and are therefore relatively simple to install.

What types of inputs are available for most TV's?

Most televisions consist of one or more HDMI ports, USB ports and TV signal port.

Do you supply waterproof remote controls with all your products?

No. Just some of the waterproof televisions come equipped with waterproof remote controls as standard and the other models come equipped with non-waterproof remote controls and waterproof cover.

What is an IP rating?

Ingression Protection Ratings (IP Ratings), evaluate the performance of a particular products ability to keep out moisture or dust and other debris. IP ratings are made up of 2 digits. The first digit indicates the products ability to stop the ingress of dust. 0 being no protection, and 6 being the highest degree of dust protection (dust proof).

The second digit indicates the products ability to stop the ingress of water. Again, 0 being no protection, with 8 being the highest degree of water protection (continuous immersion in water).

As an example, the models IP65 rated means they are dust tight (6), and can take high pressure water from any direction (5).

Does the TV come with everything I need to install, power and control?

All of our Bathroom TVs come complete with relevant bracket and instructions (for installation), and accessories to power and control (power adapter and remote control).

Can you install the bathroom TVs at the end of your bath or within a shower area?

All our bathroom TVs conform to IP65 or IP66 standard, they can be installed at the end of the bath, of which is the most popular installation location.

Do you deliver worldwide?

Absolutely – we can ship all over the world, but delivery times do vary. We recommend you contact us before you order so we can give you a more accurate delivery date estimate.

My TV is out of warranty; do you offer a repair service?

We do have an internal service department and are on hand to assist and support our customers with any repair works required in an affordable, effective and timely manner. Simply contact us for more information.

Can I connect external speakers?

It depends on the models. For the models with the audio-out, they allow you to use either the internal speakers or use the audio-out facility to connect with external speakers of your choice. It is important to note that you can only use either the internal or external speakers and not in conjunction with one another. You can also customize the output ports when you place the orders.

Are the speakers waterproof?

Yes. The speakers are waterproof. They are located inside the TV and with waterproof treated.

Why don't you supply the batteries for the remote control?

This is because of the air freight control for safety reason.