

CONNECTIONS

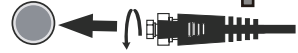
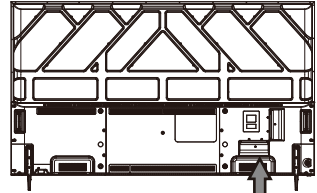
CONNECTING A TV ANTENNA / CABLE / SATELLITE

To view television channels correctly, a signal must be received from one of the following sources:

- An indoor or outdoor aerial antenna
- A cable system
- A satellite system

NOTE

For receiving over-the-air TV broadcasts, we recommend that you use an external fixed antenna. Should you require the use of a temporary antenna, please ensure that you purchase an antenna with sufficient ability to receive in weak signal areas. Only when you are in close proximity to a transmitter will a temporary antenna reproduce a signal as strongly as a fixed antenna.



Satellite, cable or TV antenna cable to TV ANTENNA terminal (cable not included)

CONNECTING AN A/V DEVICE

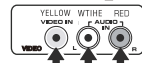
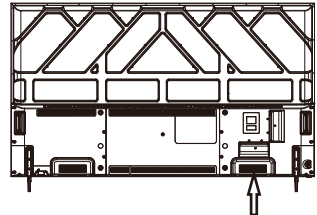
To connect to other equipment such as a VCR, camcorder, satellite system or cable, etc.

CONNECTING DEVICES WITH A COMPOSITE VIDEO OUTPUT

To connect A/V devices such as a VCR, video game system or camcorder.

Connecting to a VCR / Video Game System / Camcorder

Connect the AUDIO / VIDEO cable (not included) as shown. Make sure you connect the cable from the other equipment (AUDIO and VIDEO OUT) to this unit (AV in).



To AUDIO / VIDEO OUT jacks

VCR / VIDEO GAME SYSTEM / CAMCORDER etc.

To AUDIO / VIDEO IN jacks

NOTE

1. Please refer to the user manual for the other equipment for more information.
2. Composite video input (shared with component)

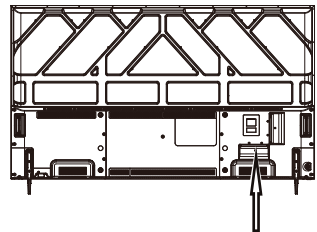
CONNECTING HEADPHONES

- Turn down the volume before connecting headphones to the unit, then adjust the volume to your desired level.
- When headphones are connected, no sound will come from the front speakers.

NOTE

Avoiding listening to sound at high levels for prolonged period of time.

This may be harmful to you and may cause hearing loss.



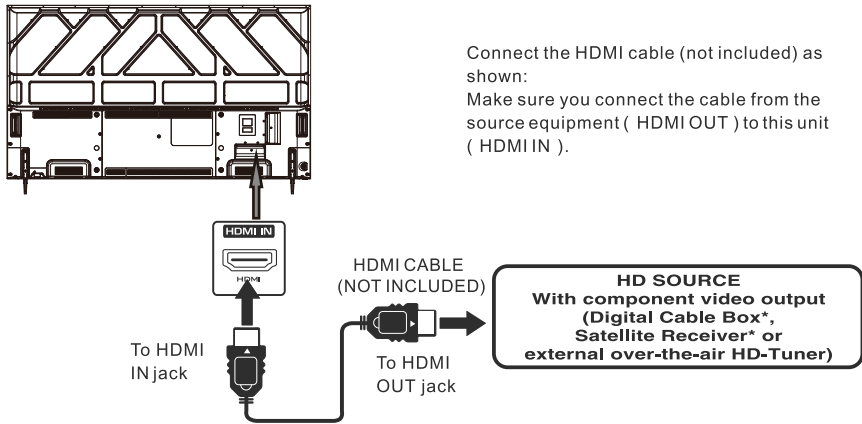
EARPHONE (1/8" [3.5mm] diameter plug) NOT INCLUDED

CONNECTIONS

CONNECTING A HIGH-DEFINITION (HD) SOURCE USING HDMI CONNECTION

HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD players, DTV, set-top boxes and other digital AV devices. HDMI was developed to provide the technologies of High Bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant or HDMI-compliant displays.

HDMI has the capability to support standard, enhanced or high-definition video plus standard to multi-channel surround-sound audio. HDMI features include uncompressed digital video, a bandwidth of up to 2.2 gigabytes per second (with HDTV signals), one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.



Connect the HDMI cable (not included) as shown:

Make sure you connect the cable from the source equipment (HDMI OUT) to this unit (HDMI IN).

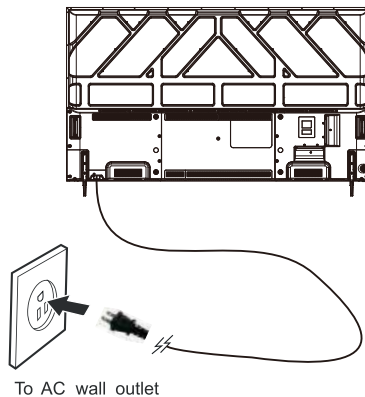
CONNECTING THE POWER CORD

Do not power on your TV unit before making sure the power cord is properly inserted.

At the same time, please check that the rated voltage of your unit matches your local Voltage.

NOTE

- Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)
- Ensure that the power plug is easily accessible.
- Ensure the earth pin on the power plug is securely connected to prevent electrical shock.
- Do not touch the power plug with a wet hand. (This may cause electrical shock)
- Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)
- Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)
- Do not move the TV with the cord plugged in the socket outlet.
- Do not place a heavy object on the cord or place the cord near a high-temperature object.
- Do not twist the cord, bend it excessively, or stretch it.
- Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
- Do not use a damaged power plug or socket outlet.

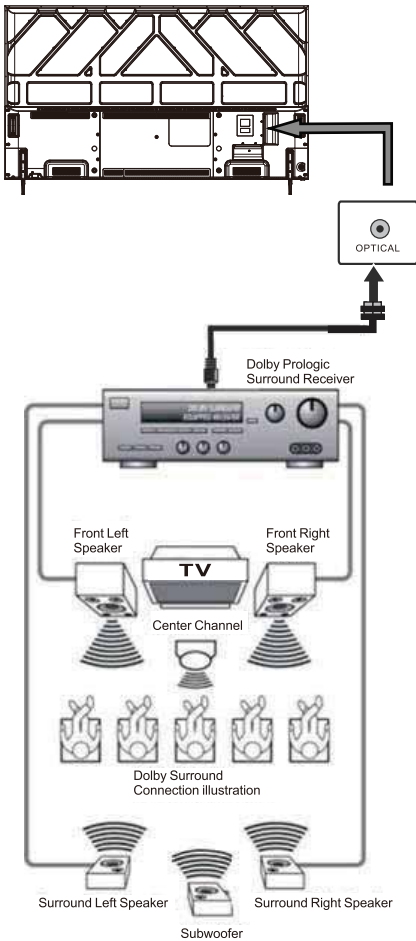


Connection to a Home Theater Audio System

For BEST audio performance

Connecting to a Home Theater System Dolby Digital can deliver optimal 2 channel stereo or surround sound with five discrete full range channels plus a sixth channel for a subwoofer.

Enjoy optimal sound reproduction from your system with a Dolby Digital amplifier that incorporates a digital optical input. Connect an optional digital cable directly to the television's optical audio output to listen through all inputs.



Optional digital cable
(not included)

*NOTE: Refer to the User Manual from your home theater equipment for recommended audio settings.

INITIAL SETUP

PUTTING THE UNIT ON A PROPER PLACE

When you turn on your television set for the first time, be sure to place it on a solid stable surface.

To avoid danger, do not expose the TV to water, or a heat source (e.g. lamp, candle, radiator).

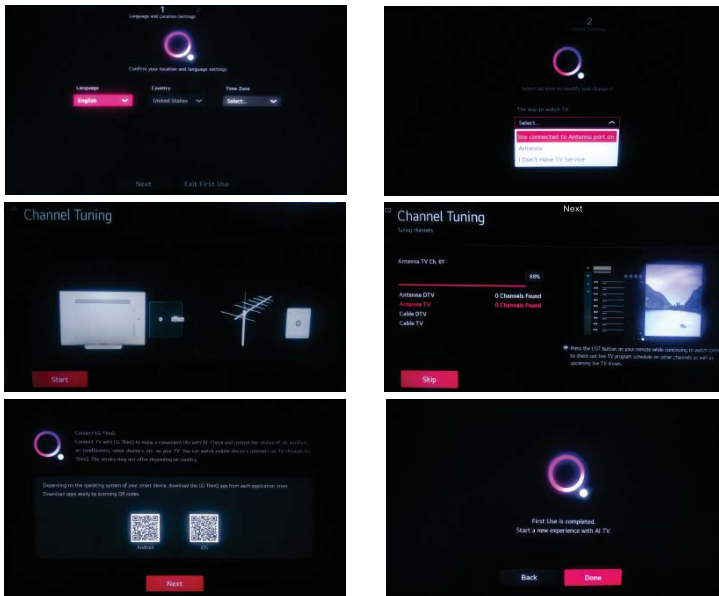
Do not obstruct the ventilation grid at the rear and be sure to leave sufficient gaps around the unit.



TURNING THE UNIT ON FOR THE FIRST TIME

After you have initially connected your TV antenna or cable, turn the television ON. A screen will display asking you to select Language and Location. The way to watch TV and Connect LG ThinQ. After setting the options, you can start to experience webOS TV.

Regarding the selection of the service country, you need to enter general menu to select, which is described in detail on page 19 of the manual.



Note: It is not necessary to select the country when performing the initial setup of this TV. And webOS will push these Apps to the Content Store of this TV depending the IP address. Different Countries have different Apps.

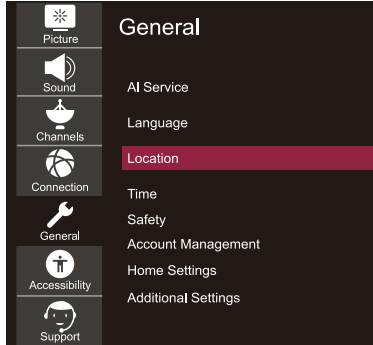
RCA WebOS TV Initial Setup Guide

After you have initially connected your TV antenna or cable, turn the television ON. A screen will display asking you to select Language and Location. NB: for location, the Television is preset to USA – If you are in the USA enter your ZIP Code.

If you are located outside of the USA, leave the country set to USA and enter the following ZIP CODE 12345, Complete the initial setup.

INITIAL SETUP

To change your country setting (if you not located in USA) – go to Main Menu “General” (The Wrench Symbol) then Choose Location.



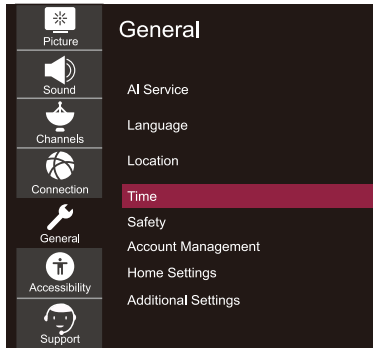
Set your Services Country

Select your country (in the menu) to enable the applicable WebOS Apps and features for your country. If you choose “Set Automatically”, the operating system of your television will detect your location (country) from your internet connection.



Set the current Date, Time & Time Zone

Setting the correct Date, Time & Time Zone ensures that all of the smart features of your RCA WebOS TV function properly.



Source Selection

Press (⏪) button to display the input source list.

Press ◀/▶ button to select the input source you want to watch, then press the Wheel (⊙) button to enter the input source. HDMI input source needs to be selected in Home Dashboard.



Note: Before watching please make sure all necessary cables and devices are connected.

TV SETUP

Quick Settings

Press the (⊞) button on the remote control, the screen will display a quick setting menu, such as picture mode, sound mode, sleep timer, etc.

You can add/delete the quick setting items or change their order. After entering each item, press the Wheel (⊙) button on the remote control to go to the corresponding menu. Press ◀/▶ button to select the option.



Using Live Menu

You can use the relevant features with ease when watching TV broadcasts. Press the LIST button on the remote control.



1. Programmes : View a list of broadcast content that is currently being broadcast.
2. Guide : You can view programmes and the schedule of each programmes.
3. TV Scheduler : You can enter the time and date of a programme to schedule watching or recording it at the set time.

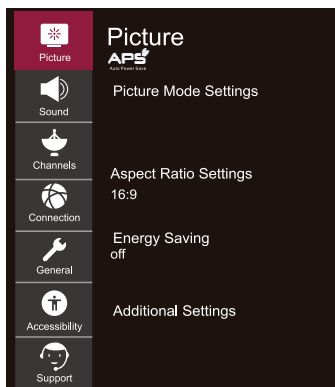
TV SETUP

Picture Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **Picture** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



Picture Mode Settings

Select a video mode that matches the viewing environment, or specify settings for a video mode, such as contrast, color and more.

Backlight

Adjust Backlight brightness to brighten or darken the screen. The closer to 100, the brighter.

Contrast

Adjust the difference between bright and dark areas of the screen. Higher values intensify the difference.

Brightness

Adjust the tint to brighten or darken the screen. The closer to 100, the brighter.

Sharpness

Adjust edge sharpness. Higher values increase the crispness and clarity of the image.

Color

Adjust the screen color to be pale or deep. The closer to 100, the clearer the color becomes.

Tint

Adjust the balance of red and green to display the tint on the screen. The closer to 50 the clearer the red, the closer to 50 the clearer the green.

Color Temperature

Display pictures in a warm or cool color temperature. Higher values increase a sense of warmth or coldness.

Advanced Controls

Adjust the contrast, resolution, etc for individual picture mode in detail and set preferred color, gamma, etc additionally.

Picture Options

Set necessary additional functions based on watching environment and screen status.

Reset

Revert picture setting values to default. It is reset to picture mode individually, so select the desired picture mode and reset it.

Aspect Ratio Settings

View the original screen as it is or set the screen size and aspect ratio.

Energy Saving

Energy saving modes to limit power consumption. Adjust screen brightness to reduce energy consumption.

If you use Energy Saving function, brightness of your TV will be affected.

Select the Off option to turn off the ECO picture mode. Darken the surrounding environment so that you can see the on-screen menu information clearly.

Additional Settings

Set additional picture settings. Include Eye Comfort Mode, HDMI Ultra HD Deep Color and Instant Game Response.

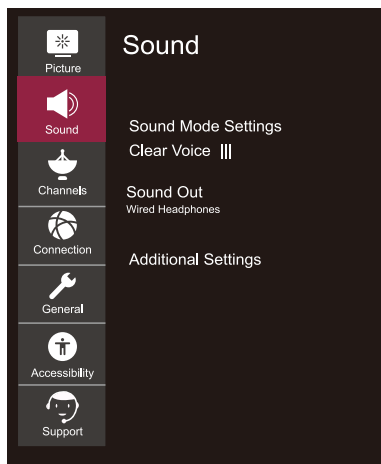
TV SETUP

Sound Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **Sound** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



Sound Mode Settings

Select the Sound mode and set detailed Audio effects. This settings is only available for Internal TV Speaker. Include Standard, Cinema, Clear Voice III, Sports, Music and Game.

Balance

Control the sound balance between the right and left speaker.

Ultra Surround

Set the virtual multi-channel . surround sound effect to enjoy more realistic sound.

Equalizer

Adjust the sound to meet your taste for each sound frequency band.

Reset

Revert detailed sound effect settings of standard mode to default.

Sound Out

Select device or speaker for audio output. Include Internal TV Speaker, Bluetooth, Mobile Device, Optical, HDMI ARC, Wired Headphones, Optical + Internal TV Speaker etc. for your choice.

Additional Settings

Set additional sound-related settings. Include TV Installation Type, Volume Mode, AV Sync Adjustment, HDMI Input Audio Format, LG Sound Sync and Digital Sound Out for your choice. You can perform the operations you want according to the prompt information on the TV screen.

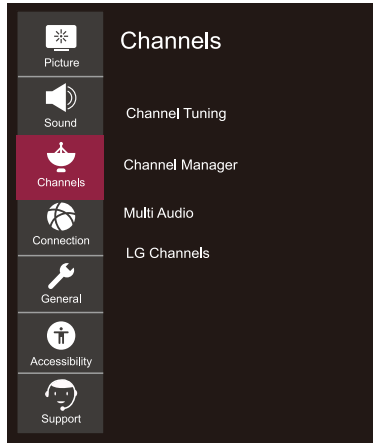
TV SETUP

Channel Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **Channels** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



Channel Tuning

Tune and save available channels. You can choose Auto Tuning and manual Tuning to search for TV programs.

Channel Manager

Manage channels stored on the TV.

Multi Audio

Set audio-related options.

Note: Available options depend on the broadcast program.

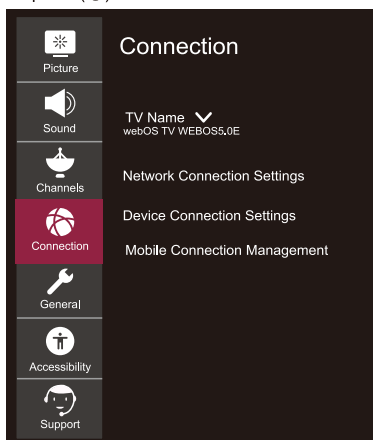
TV SETUP

Connection Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **connection** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



TV Name

Set the TV name.

Network Connection Settings

Set settings related to your wired / wireless network.

Device Connection Settings

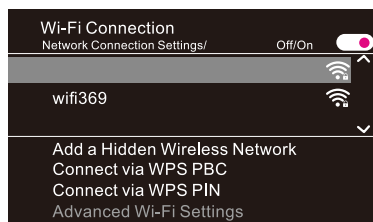
Set easy connection settings with external devices. After entering the menu, you can select and set these options of Auto Device Detection, SIMPLINK (HDMI-CEC), Auto Power Sync, LG Wireless , Keyboard and Universal Control Settings.

Mobile Connection Management

Connection Management with a smartphone or PC is available. In order to connect a TV with a mobile device, connection settings and requests are required on the smartphone and PC.

Wi-Fi Connection

Select Wi-Fi Connection in the Network Connection Settings menu, press (⊙) button to enter, then select the WIFI you want to connect to, and enter the password to connect to WIFI.



Add a Hidden Wireless Network

Add wireless network by "manually entering network name (SSID).

Connect via WPS PBC

For a WPS(Wi-Fi Protected Setup)-enabled wireless router press the WPS-PBC button to onnect TV to the wireless network.

Connect via WPS PIN

For a WPS(Wi-Fi Protected Setup)-enabled wireless router, Enter PIN code to connect TV to the wireless network.

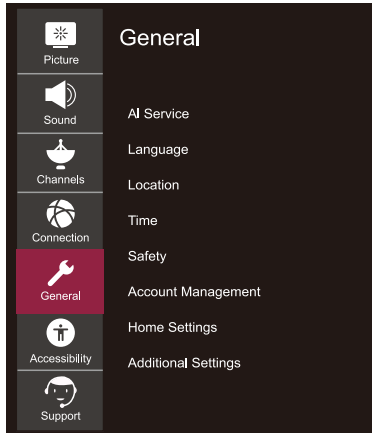
TV SETUP

General Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **General** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



AI Service

Set detailed options for the AI functions.

Language

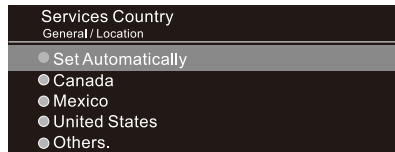
Select TV's language settings. You can set the Menu Language, Audio Language and Keyboard Languages.

Location

Set the region and country for broadcasts and special services.

Services Country

Select the country for your country's special services. Provided services may vary depending on countries. You can choose to set Automatically, Canada, Mexico, United States and Others.



Time

Set the current date and time. If the time you set is much different from the current time, some of the smart features may not be displayed. Include Time, date and Time Zone.

Timers

Set the sleep timer and auto power off time.

Safety

Set locking on the specified channels, apps, inputs and etc to use under parents guidance.

Reset Password

Enter the Safety sub-menu and select the Reset Password option, you can modify the new password here. Before modifying, you need to enter the old password first. The initial password is 0000.



Account Management

Set up an account to use Services.

Home Settings

Set detailed options for the Home feature.

Additional Settings

Set the additional functions related to the TV.

TV SETUP

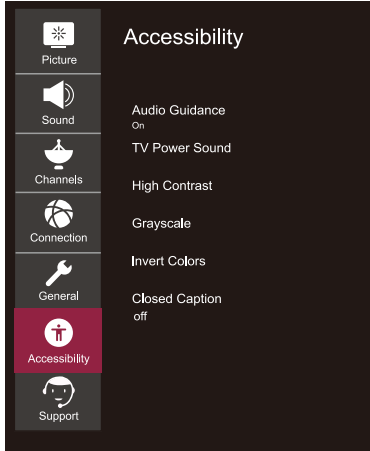
Accessibility Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **Accessibility** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.

Note: Certain settings/functions will not work if others are turned on.



Audio Guidance

Guide menus and operations with voice for visually impaired viewers to use TV. Specify detailed voice guidance settings after turning on this feature.

TV Power Sound

Alerts you by sound when the TV is turned on or off. The sound may not be output when digital sound output is set to Pass Through.

High Contrast

Enhance the contrast between bright and dark areas of some menus, such as the background and text, for being easily viewed by those with low-vision.

Grayscale

Change the color of the menu on the screen to black and white tone for higher clarity.

Invert Colors

Invert and compensate certain colors in some menus to enhance the visibility of items displayed on the screen.

Closed Caption

Set advanced captioning options. It works only when the broadcasting program supports captions.

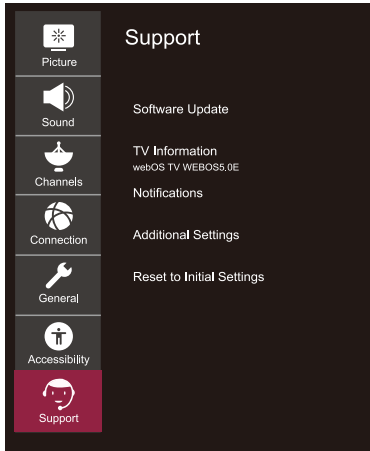
TV SETUP

Support Menu

Select All settings in settings menu, press (⊙) button to enter the submenu.

Press ▲/▼ buttons to select **Support** in the submenu, it will highlight the option, then press ► button to enter menu.

Press ▲/▼ button to select the option and press (⊙) button to enter the submenu.



Software Update

Check for software updates and update if available.

TV Information

Check TV information.

Notifications

Check alarm messages about the user settings or TV status.

Additional Settings

Set up additional features related to customer support. Include User Agreements, Legal Notice and Open Source Software Notice These options.

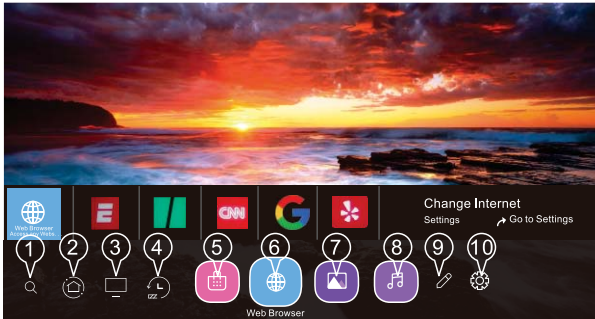
Reset to Initial Settings

Revert TV to its initial settings. This will revert all options on TV to their default settings.

Home Tutorial

Using the home feature of the webOS TV

You can open the home screen by pressing the (🏠) button on your remote control.



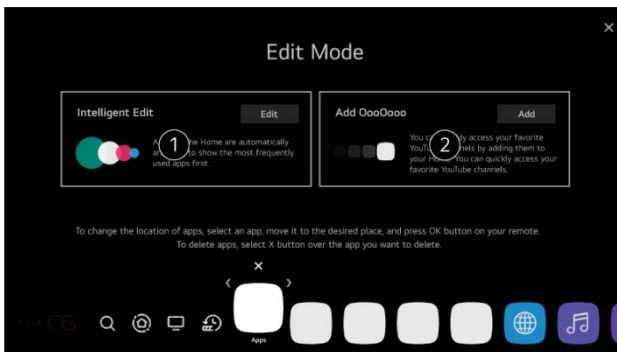
1. Enter the search menu. Search for a variety of content and information using the desired search terms.
Need to make sure the network connection is normal
2. Move To The Home Dashboard.
3. Move to the TV input you used recently.
4. Move to the recently used app.
5. Move to the the APP store.
6. Move to the Browser.
7. Move to the Picture and video playback menu.
8. Move to the Music playback menu.
9. Move to the Edit menu.
10. Move to the Settings menu.

Manage Home

Manage webOS TV Home.

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

You can perform the operations you want according to the prompt information on the TV screen.



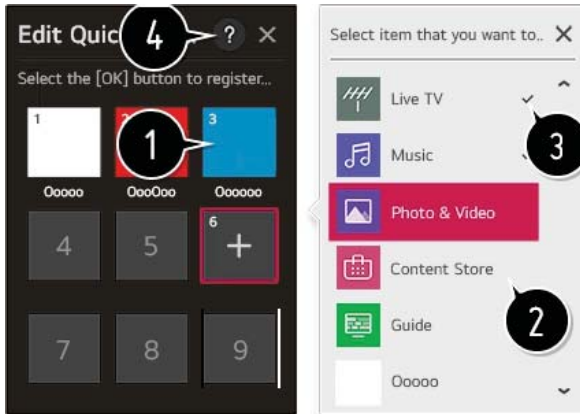
1. Select the app you want to edit, and press and hold the wheel (Ⓞ) button on the remote control. This will activate the app edit mode.
2. To move the app to your desired position, go to the position and press the wheel (Ⓞ) button.
To delete an app, select the "X" icon above the app. You can move and 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.

Launching Apps through QUICK ACCESS

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

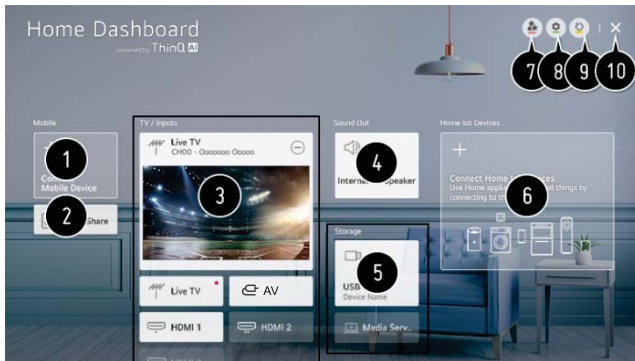
Setting QUICK ACCESS

1. Launch the app or select the programme or input you wish to assign.
2. Press and hold the number button (1~9) you want to register.
If you press and hold a number button that has already been registered, the registered function will be performed. To see the items that can be registered, select a number that has not been registered in the QUICK ACCESS edit mode.
3. When the registration pop-up window appears, select Yes.
If you are in a mode where QUICK ACCESS cannot run, no action will be performed.
If you delete a registered app, QUICK ACCESS will be deregistered as well.



Home Dashboard

You can select or control a device connected to the TV. Press the (⏪) button on the remote control and select Home Dashboard. You can perform the operations you want according to the prompt information on the TV screen.



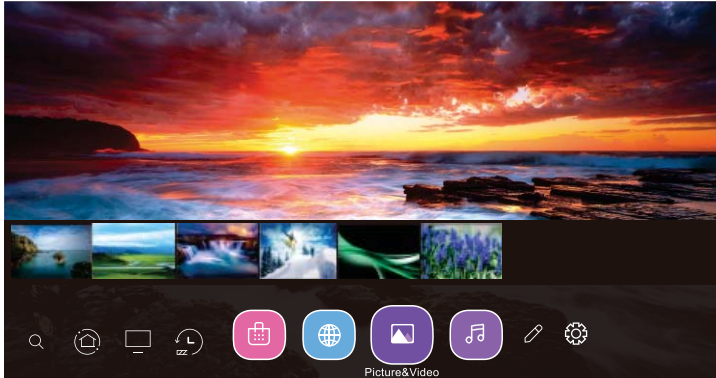
1. Check and select the smart device connected with the LG ThinQ app.
2. Play sound from a smart device connected via Bluetooth.
3. Check and select the external device connected through the external input port or network.
4. The currently selected output speaker is displayed, and you can navigate to the output speaker settings screen.
5. View and select the connected storage device.
6. Check and control the device connected via the Home IoT.
7. Easily control your device by presetting the desired operations.
8. 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.
9. Refreshes the device list.
10. Exit the Home Dashboard.

USB Media Player

USB Media Player

Connect a USB storage device to the USB port on the TV to enjoy the content files stored on the USB storage device on your TV.

Support format: jpeg, jpg, jpe, png and bmp for photo, mp3, wav, ogg, wma, flac for music, asf, avi, mp4, 3gp, mkv, ts, mpg, vob for video.



Using Photo Player

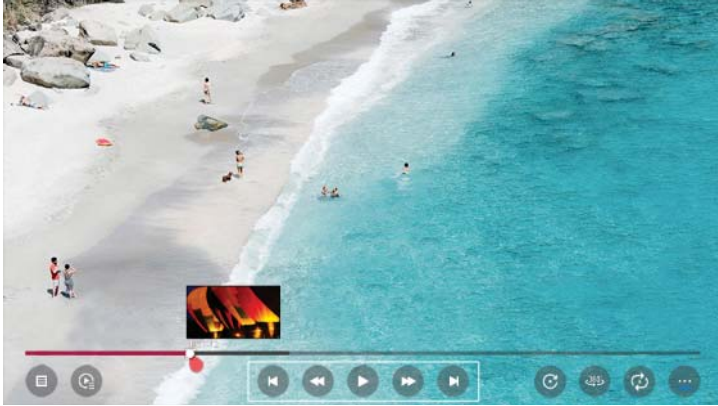
Selecting Photo & Video app and press (Ⓢ) button to enter the menu. You can view your saved photos. Press Arrow buttons to select the file you want to watch in the file selecting menu, then press (Ⓢ) button to start playing. When playing media, press the (Ⓢ) button to display and operate file details.



USB Media Player

Playing Video

Selecting Photo & Video app and press (Ⓢ) button to enter the menu. You can view your saved videos. Press Arrow buttons to select the file you want to watch in the file selecting menu, then press (Ⓢ) button to start playing. When playing media, press the (Ⓢ) button to display and operate file details.



Playing Music

Selecting Music app press (Ⓢ) button to enter the menu. You can listen your saved music. Press Arrow buttons to select the file you want to listen to music in the file selecting menu, then press (Ⓢ) button to start playing. When playing media, press the (Ⓢ) button to display and operate file details.



DISPLAY MODE

VIDEO FORMATS

SUPPORTED COMPONENT / HDMI INPUT MODE			
Resolution	Horizontal Scanning Frequency (KHz)	Vertical Scanning Frequency (Hz)	Format
720 X 480	15. 73	59. 94	480 i
720 X 480	31. 5	59. 94	480 p
1280 X 720	45	60	720 p
1920 X 1080	33. 75	60	1080 i
1920 X 1080	27	24	1080 p
1920 X 1080	67. 50	60	1080 p
3840 X 2160	53.9	24	2160p
3840 X 2160	67.5	30	2160p
3840 X 2160	134.5	60	2160p

NOTE:

The above listed formats are also related to the AV devices you are about to connect. Before you connect this unit with others please read all instructions carefully and make sure all necessary cables are connected.

This unit may be incompatible with some other formats which are not meet the above conditions.

SPECIFICATION

Model Description		98"LED TV
Panel	Panel Type	LED Panel
	Diagonal Size	98inches
	Screen Format	16:9
	Resolution	3840 x 2160
	Brightness	350 cd/m ²
	Contrast	1200:1
	View Angle	178(H)/178(V)
	Response Time	8.0ms
Systems	Maximum Color	16.7M colors
	Color System	NTSC/ATSC
	Sound System	M/N
Input / Output Jacks	Sound Output	L/R Speaker: 12W + 12W
	RF Input	75 ohm external terminal
	HDMI Input	480i, 480p, 720p, 1080i, 1080p, 2160p.
		HDMI1(2.0), HDMI2/ARC(2.0), HDMI3(2.0)
	Composite Video Input	1.0 Vp-p, 75ohms
	Sound Input	AV AUDIO: For CVBS Audio input 500mV rms, Impedance: 20k ohms
Digital audio out	S/PDIF Optical	
Power	USB Port	Media player
	Power Requirement	100-120V~60Hz
	Rated Power Consumption	134W

This manual is only for your reference.
 Specifications are subject to update without prior notice.

TROUBLESHOOTING GUIDE

SYMPTOM

CAUSE (AND REMEDY)

TV

Bad Picture (snow, multiple images distortion,blurry)

- Check the location of the antenna and adjust it if necessary.
- Make sure the antenna cable is firmly connected.
- Make sure all input cables are firmly connected.

No sound.

- Increase the volume.
- Check whether the mute function has been activated on the Remote Control.

Black and White picture.

- Check the PICTURE setting within the PICTURE menu.
- Check to make sure the program you are watching is broadcast in Color and not Black & White.

No picture or sound.

- Make sure the unit is plugged in and turned on.
- Make sure that the ATV mode is selected.
- Try a new channel to check for possible station trouble.
- Make sure the antenna is connected properly.
- Increase the volume.
- Make sure the antenna or audio/video source device is working properly.
- Make sure all cables are firmly connected.
- Check for local interference.

Colored patches of picture.

- Make sure there are no unshielded electrical devices nearby that are causing interference.
- Turn the TV off for 30 minutes, then try it again.

Panel function key does not respond correctly.

- Under the influence of electrostatic phenomenon, the product may malfunction and require user to power reset.
- Unplug and re-plug the AC power cord.

The display monitor's panel goes hot.

- LED TV takes inside light phosphor. It may increase the temperature of the screen in some occasions. It's not a defect.

Unusual dots

- Black dots and Bright points may appear on the LED screen. This is a structural property of the LED panel and is not a defect.

Stripes on screen

- Adjust the impulse phase may decrease stripes. RGB in

The top of the monitor gets hot.

- It may occur during long-time working. It's not a defect.

Unable to select a certain channel.

- The channel may be skipped. Choose this channel by directly selecting the buttons from the remote control.

Disorder display at power on.

- This may be caused because of a very short interval between POWER OFF and ON.
- Unplug the power and restart.