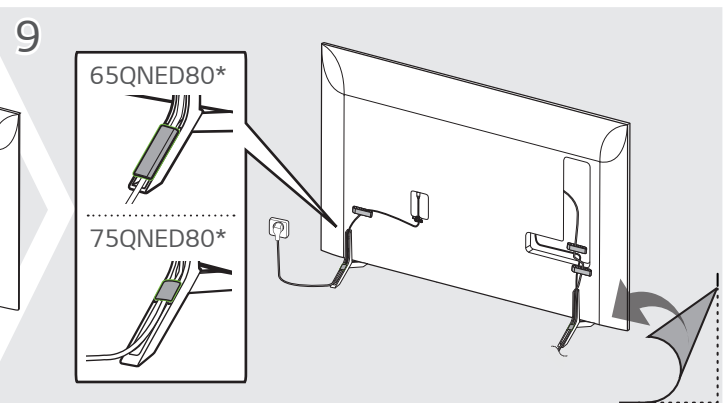
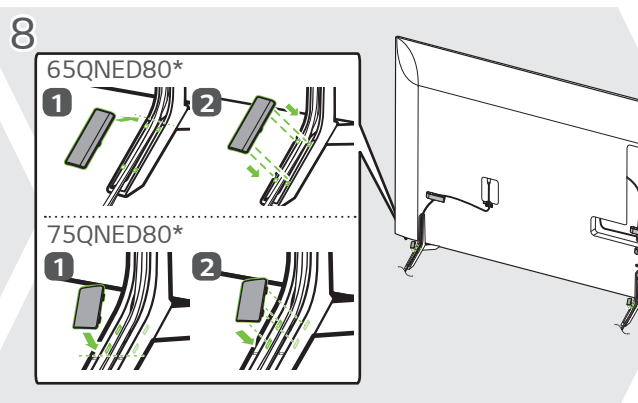
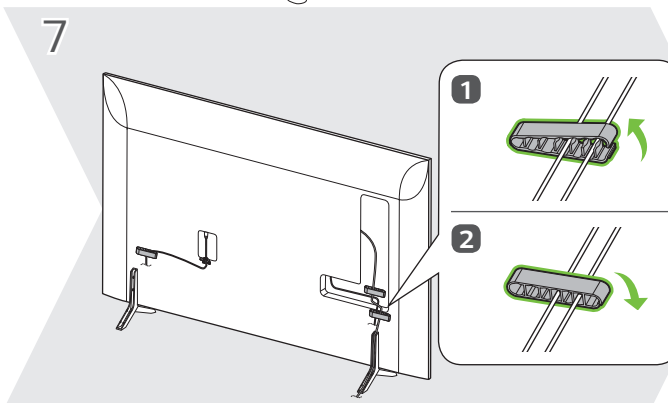
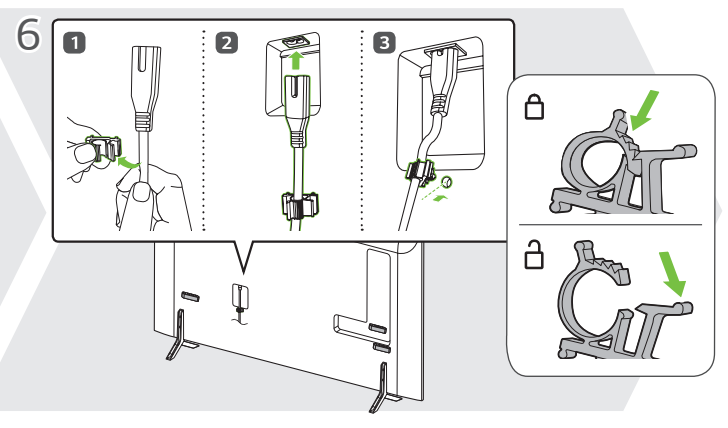
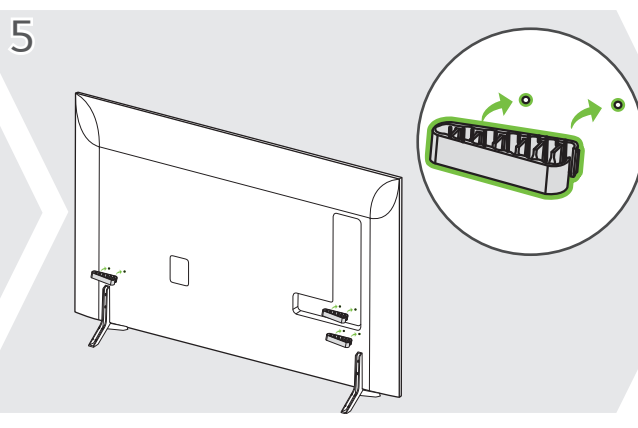
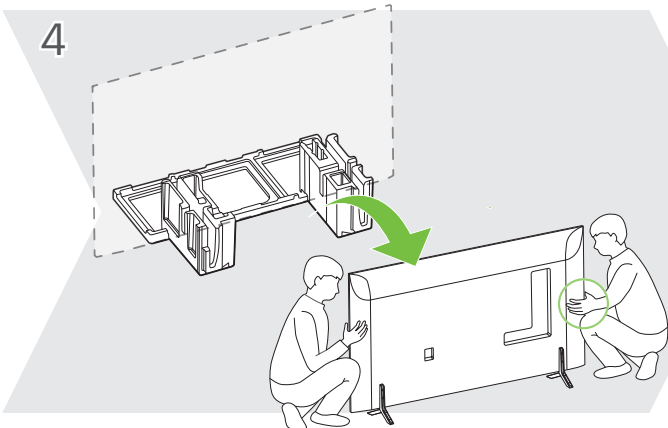
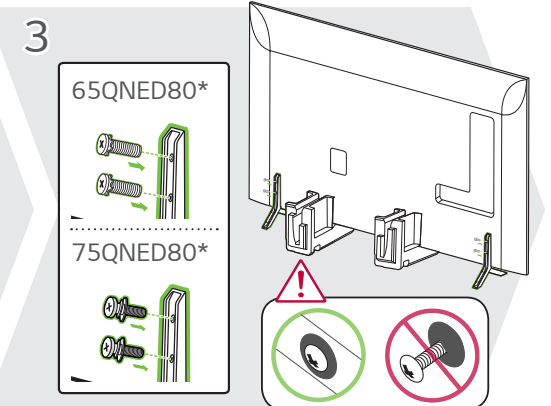
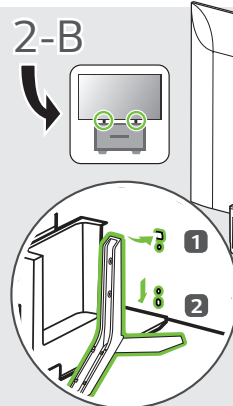
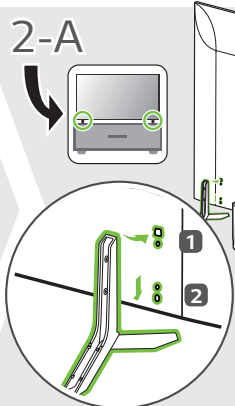
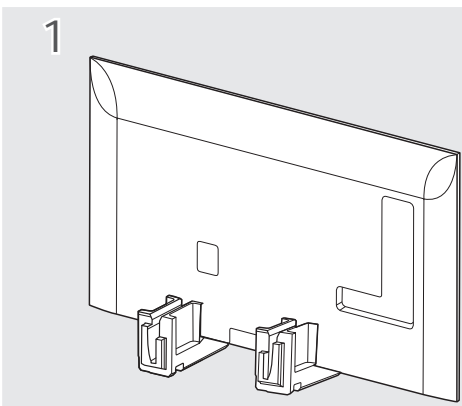
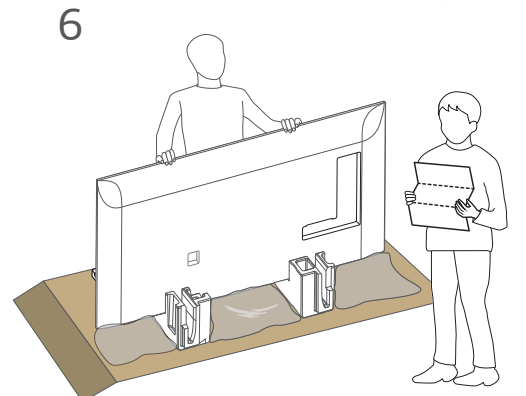
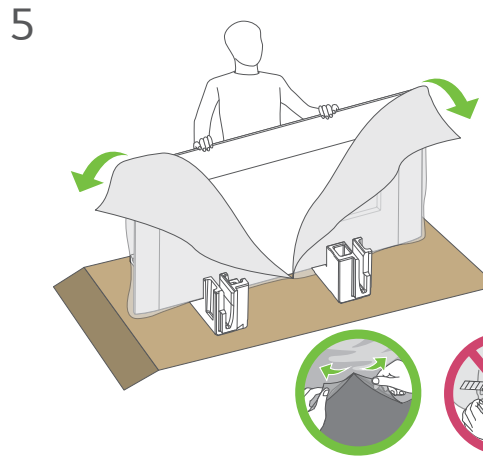
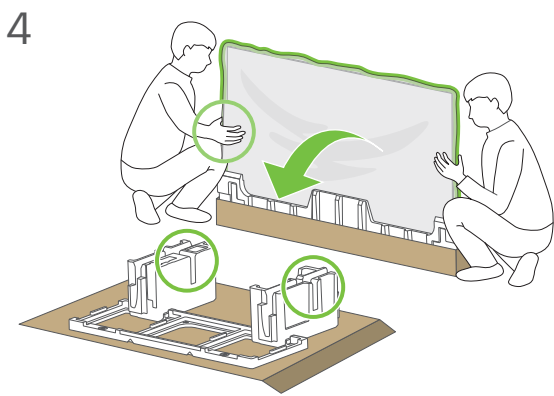
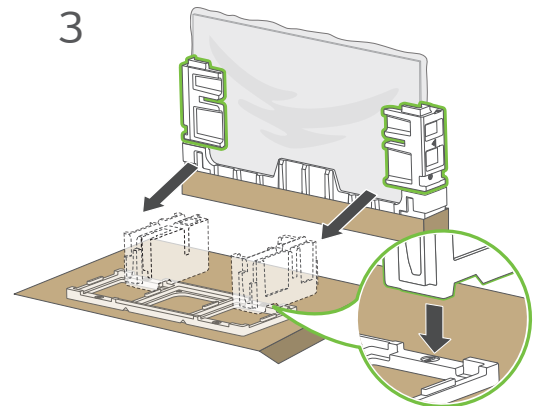
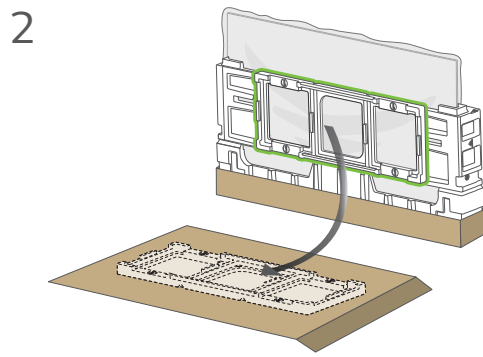
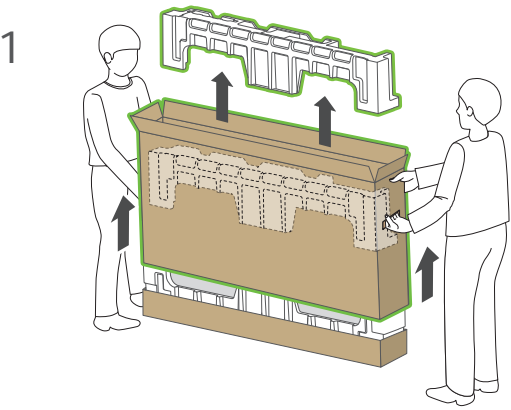
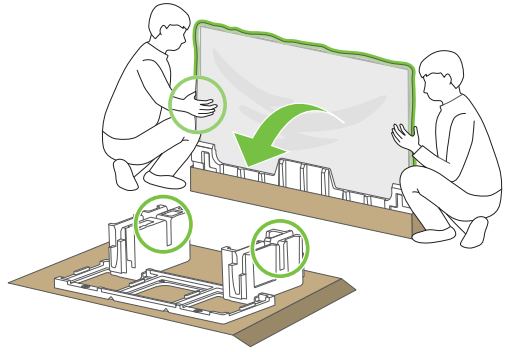
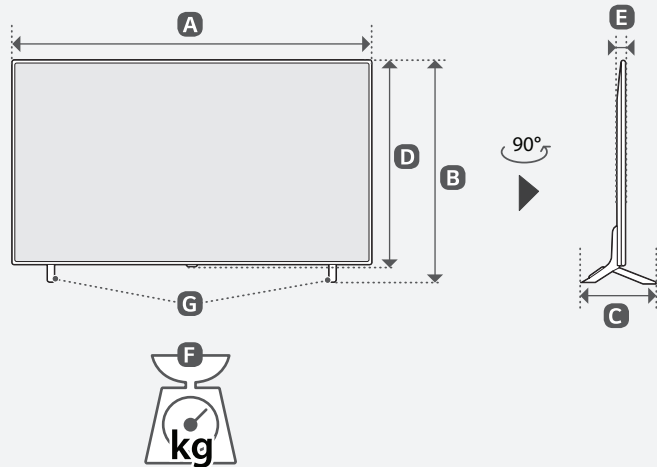
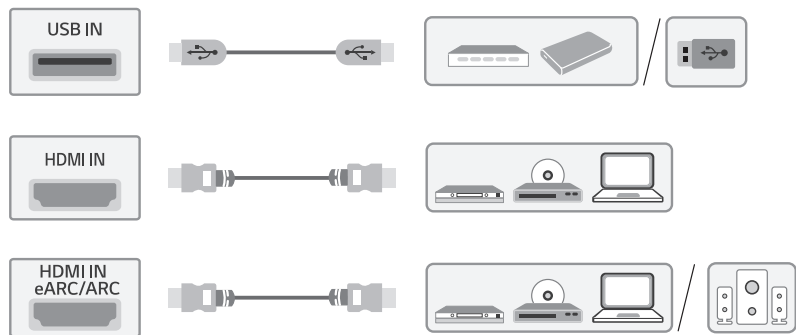
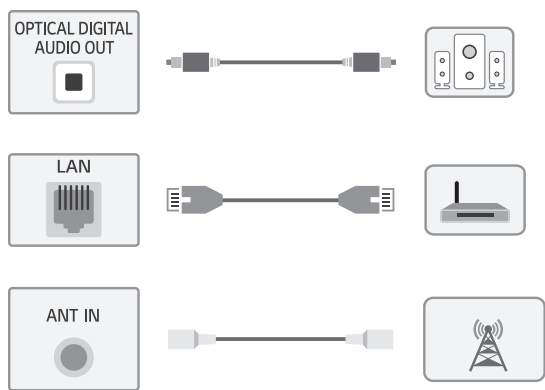


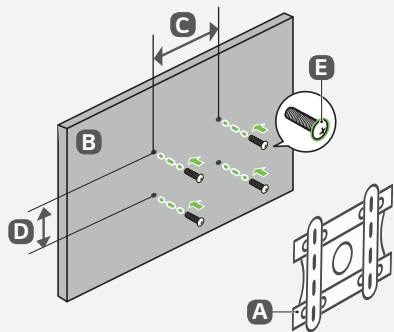
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65QNED80URA 75QNED80URA
65QNED80SRA 75QNED80SRA



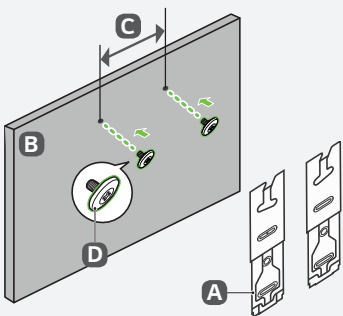


PRODUZIDO NO POLO INDUSTRIAL DE MANAUS
CONHEÇA A AMAZÔNIA
LG Electronics do Brasil Ltda.
CNPJ: 01.166.372/0008-21
Rua Javari, nº 1004, Distrito Industrial, CEP 69075-110, Manaus/AM, Indústria Brasileira

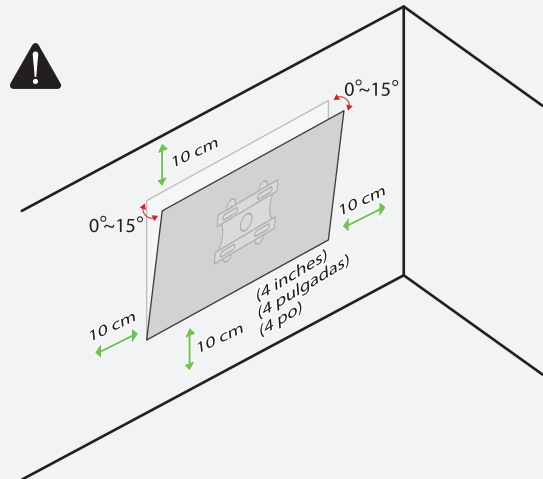
MODELS MODELOS MODÈLES DESCRIÇÃO	mm (inches / pulgadas / po) kg (lbs / libras / lb)							Power consumption Consumo de potencia Consommation électrique Consumo de Energia
	A	B	C	D	E	F	F - G	
65QNED80ARA 65QNED80URA 65QNED80SRA	1 456 mm (57.3) inches	904 mm (35.5) inches	295 mm (11.6) inches	840 mm (33) inches	29.7 mm (1.1) inches	22.9 kg (50.4) lbs	22.5 kg (49.6) lbs	200 W
75QNED80ARA 75QNED80URA 75QNED80SRA	1 677 mm (66) inches	1 032 mm (40.6) inches	359 mm (14.1) inches	965 mm (37.9) inches	30.9 mm (1.2) inches	34.0 kg (74.9) lbs	33.0 kg (72.7) lbs	240 W



mm (inches / pulgadas / po)			
A	B	C x D	E
OLW480B	65QNED80*	300 x 300 mm (11.8 x 11.8) inches	M6
OLW480B	75QNED80*	400 x 300 mm (15.7 x 11.8) inches	M6

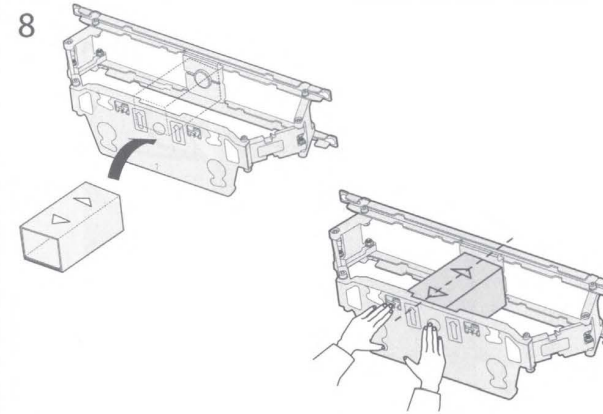
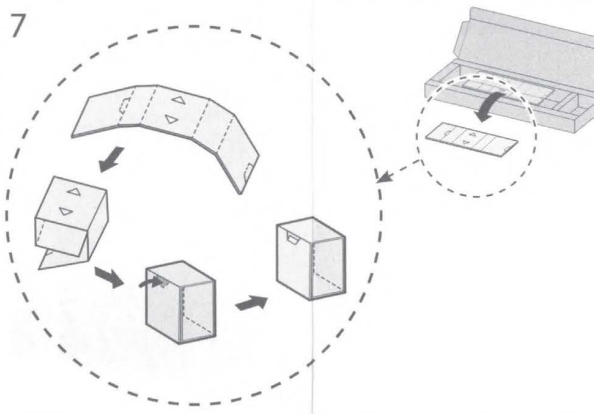
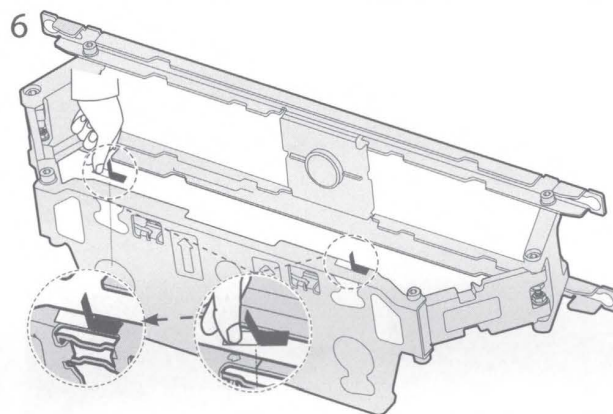
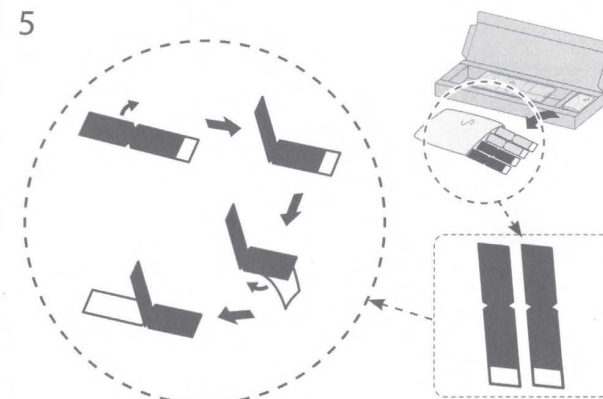
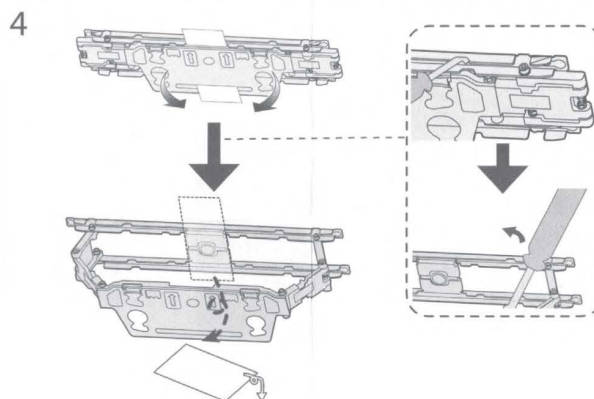
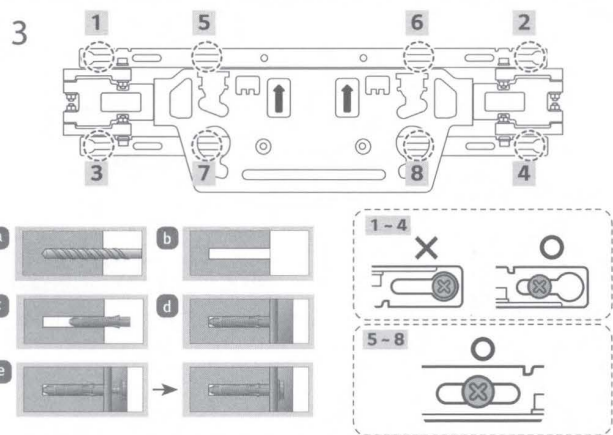
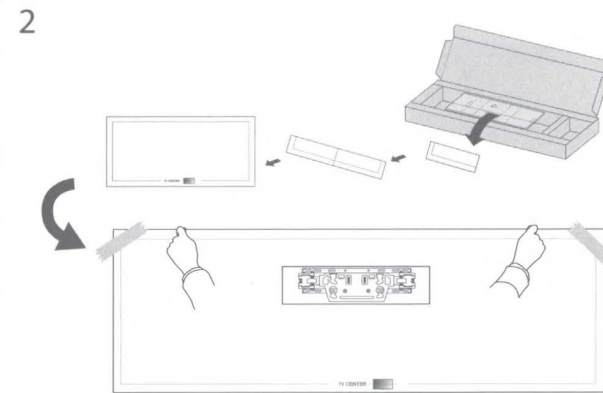
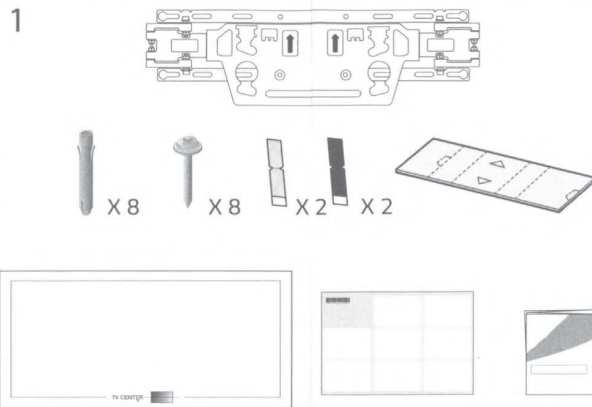
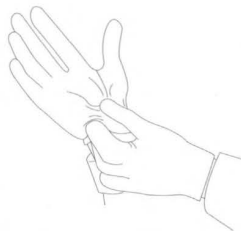


mm (inches / pulgadas / po)			
A	B	C	D
WB21LMB	65QNED80*	300 mm (11.8) inches	M6

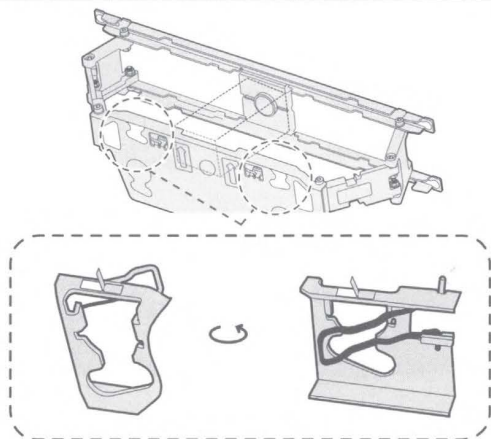




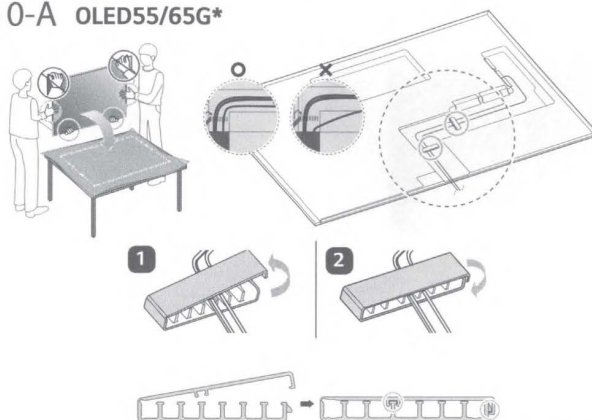
<https://www.lg.com/global/how-to-videos/oled-tv-g2>



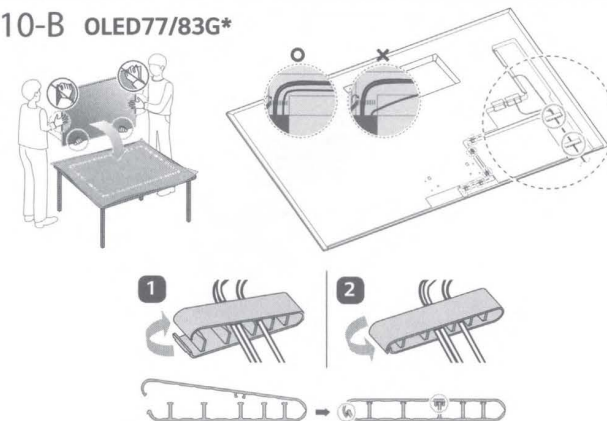
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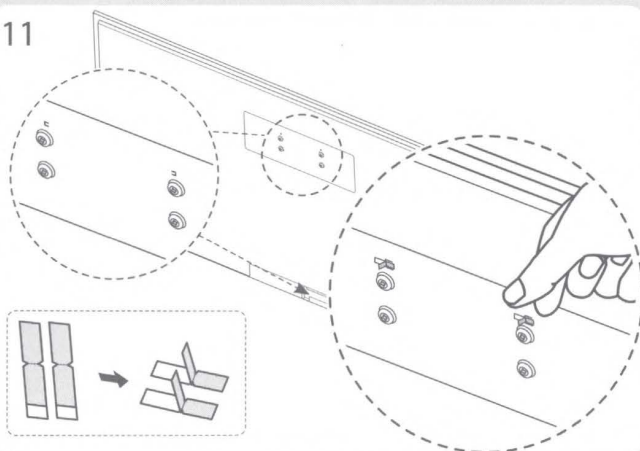
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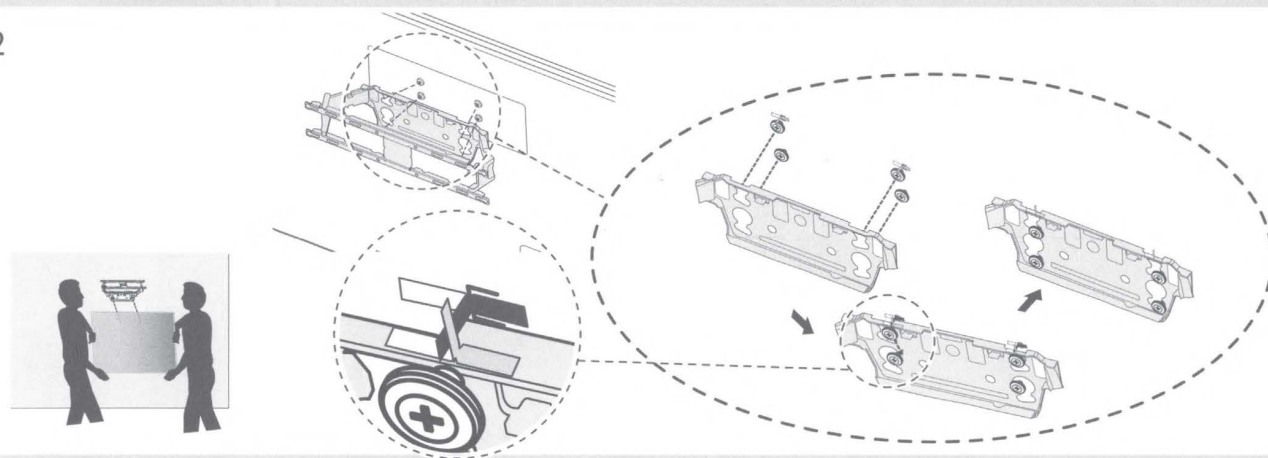
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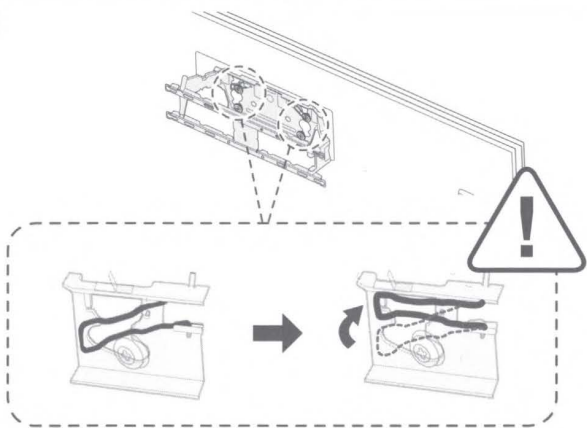
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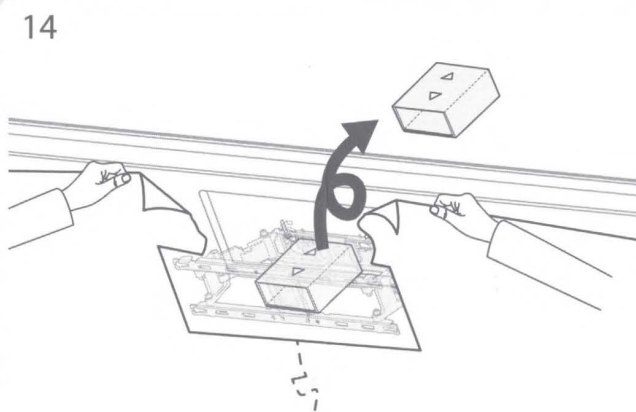
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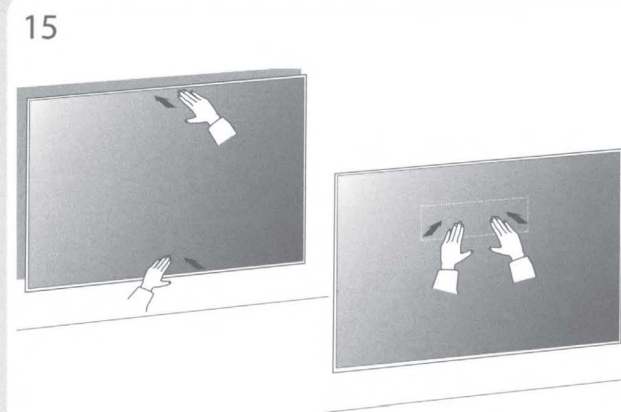
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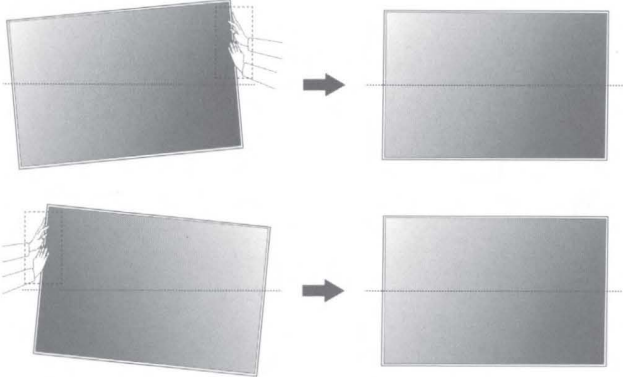
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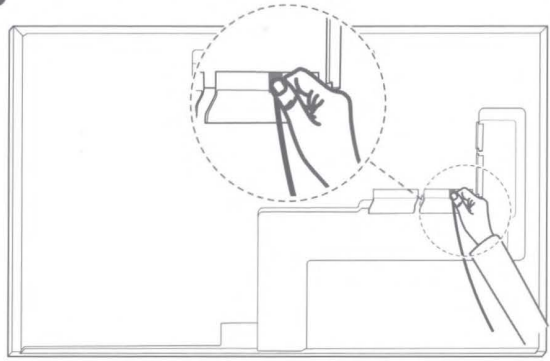
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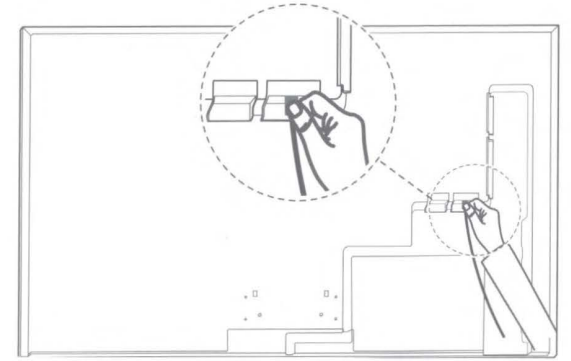
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OLED55/65G*



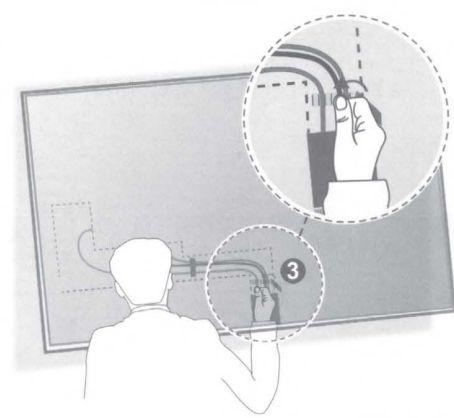
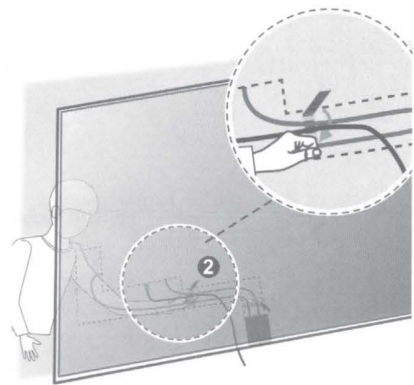
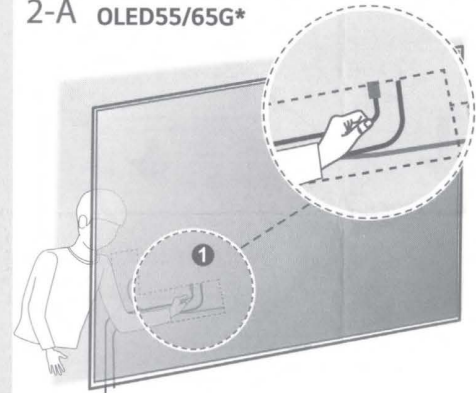
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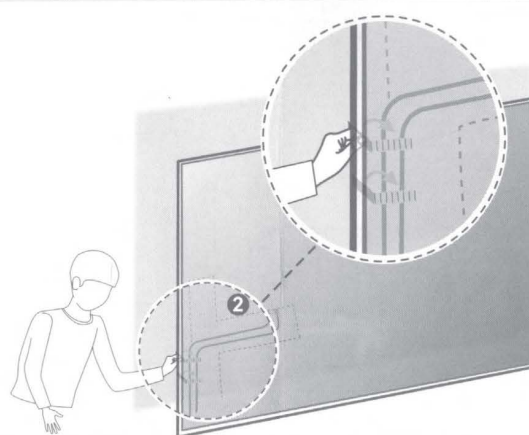
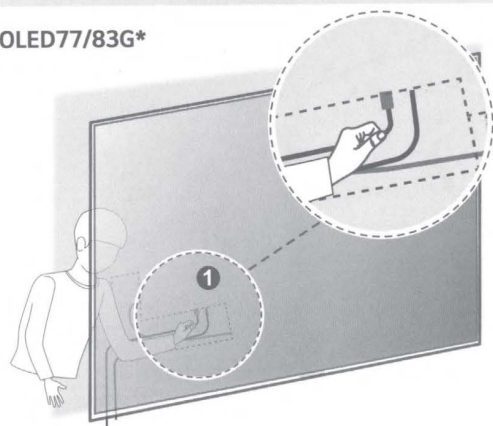
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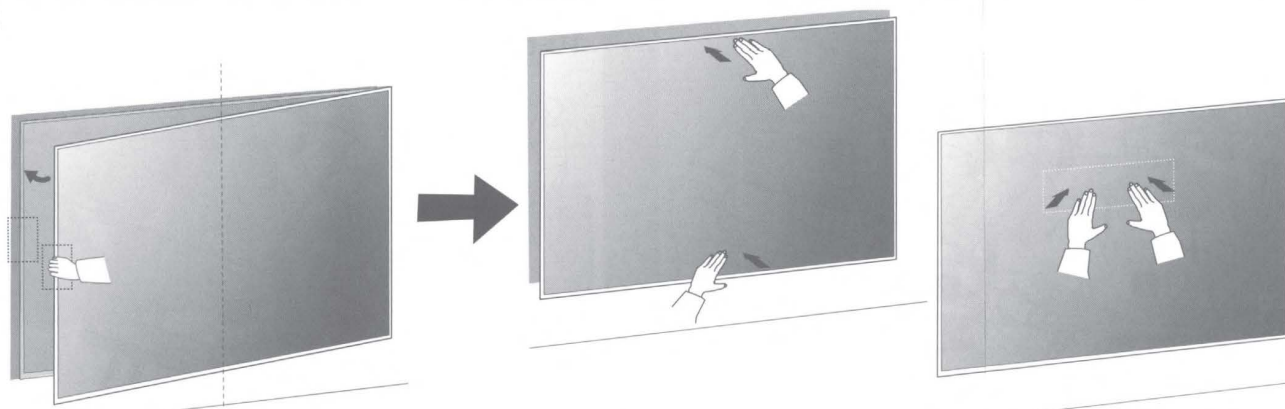
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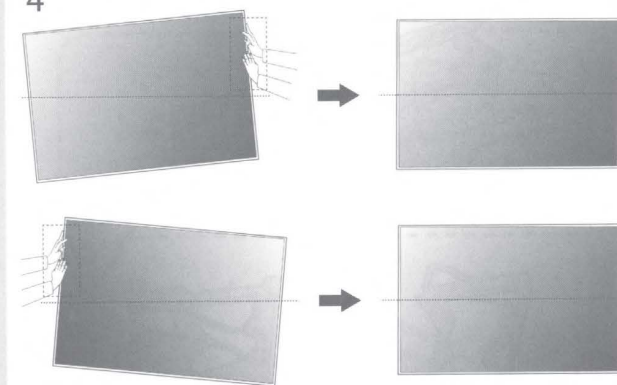
2-B OLED77/83G*



3



4



Life's Good.

LG 2023 OLED TVs:
Tips, Tricks, and Hacks
TV Guide

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2. LG TV Settings: Out of the Box
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LG Magic Remote



Magic Remote: Using the Remote-control Buttons



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

Select ⚙️ → ⓘ → **General** → **Accessibility** → **Learn Remote Control**. Press a button on the remote control following the on-screen instructions to get information about the button.



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

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

YEAR	UHD TV Year	OLED TV Year	Magic Remote
2023	R	3	MR23GN
2022	Q	2	AN-MR22GN
2021	P	1	AN-MR21GA
2020	N	X	AN-MR20GA
2019	M	9	AN-MR20GA
2018	K	8	AN-MR20GA

Indicates the Year of the TV
65UR9000 **77OLED3**

Magic Remote: Pairing Remote to the TV



Pairing the Magic Remote

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

Pair the Magic Remote prior to use as follows:

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





Magic Remote: Re-registering Remote to the TV





Re-registering the Magic Remote

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

- 01 Hold the remote control towards the TV and press the  and  buttons at the same time for more than 5 seconds until instructions appear.
- 02 The previously registered remote control is deregistered and then registered again.

Unregistering Magic Remote

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

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



Magic Remote: Setting the Pointer Speed of the Remote



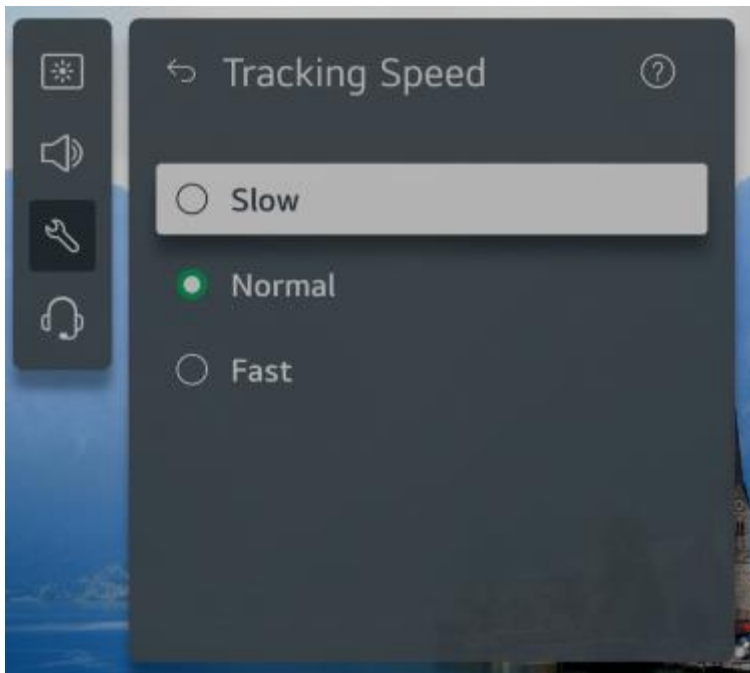
Setting the Pointer of Magic Remote

⚙️ → ⋮ → **General** → **System** → **Additional Settings** → **Pointer Options**

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

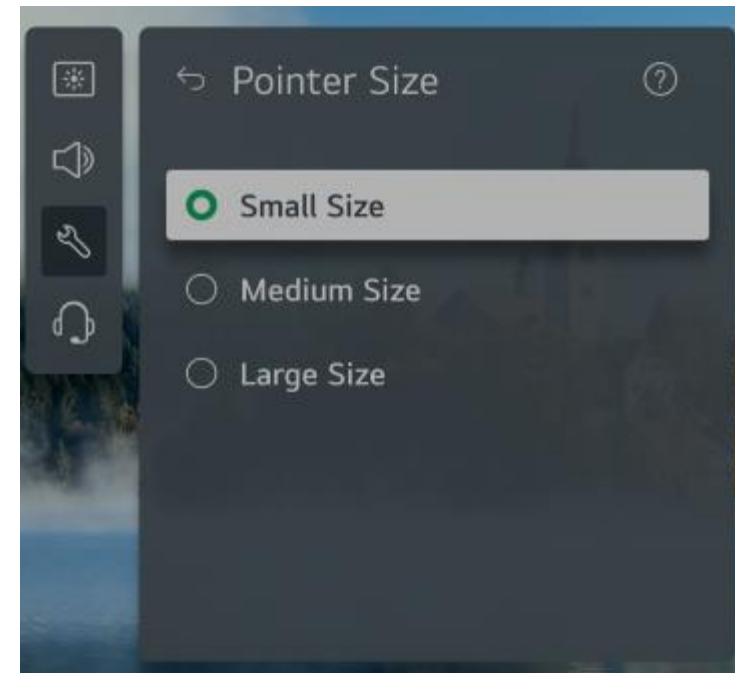
Tracking Speed

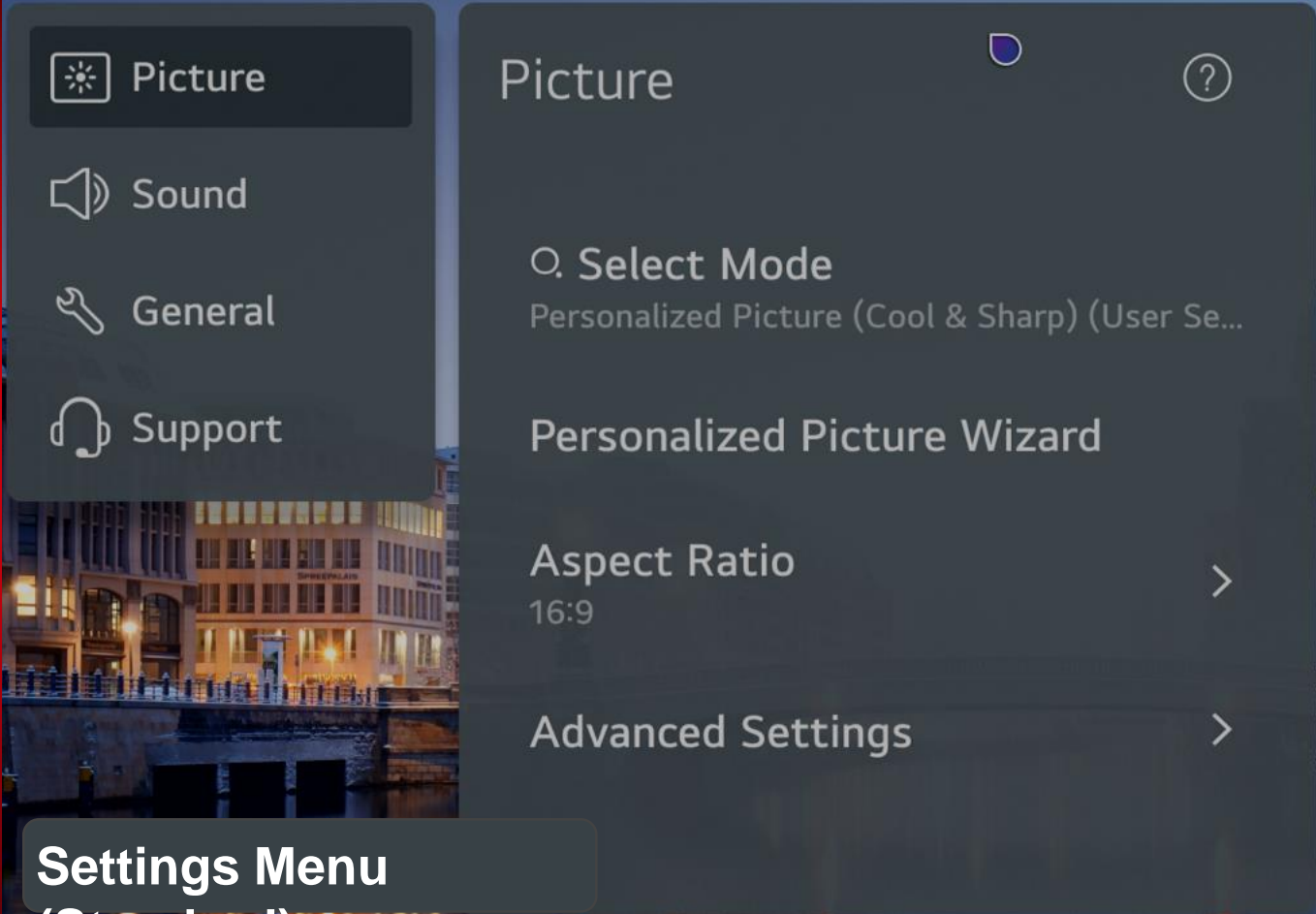
Sets the pointer speed.



Pointer Size

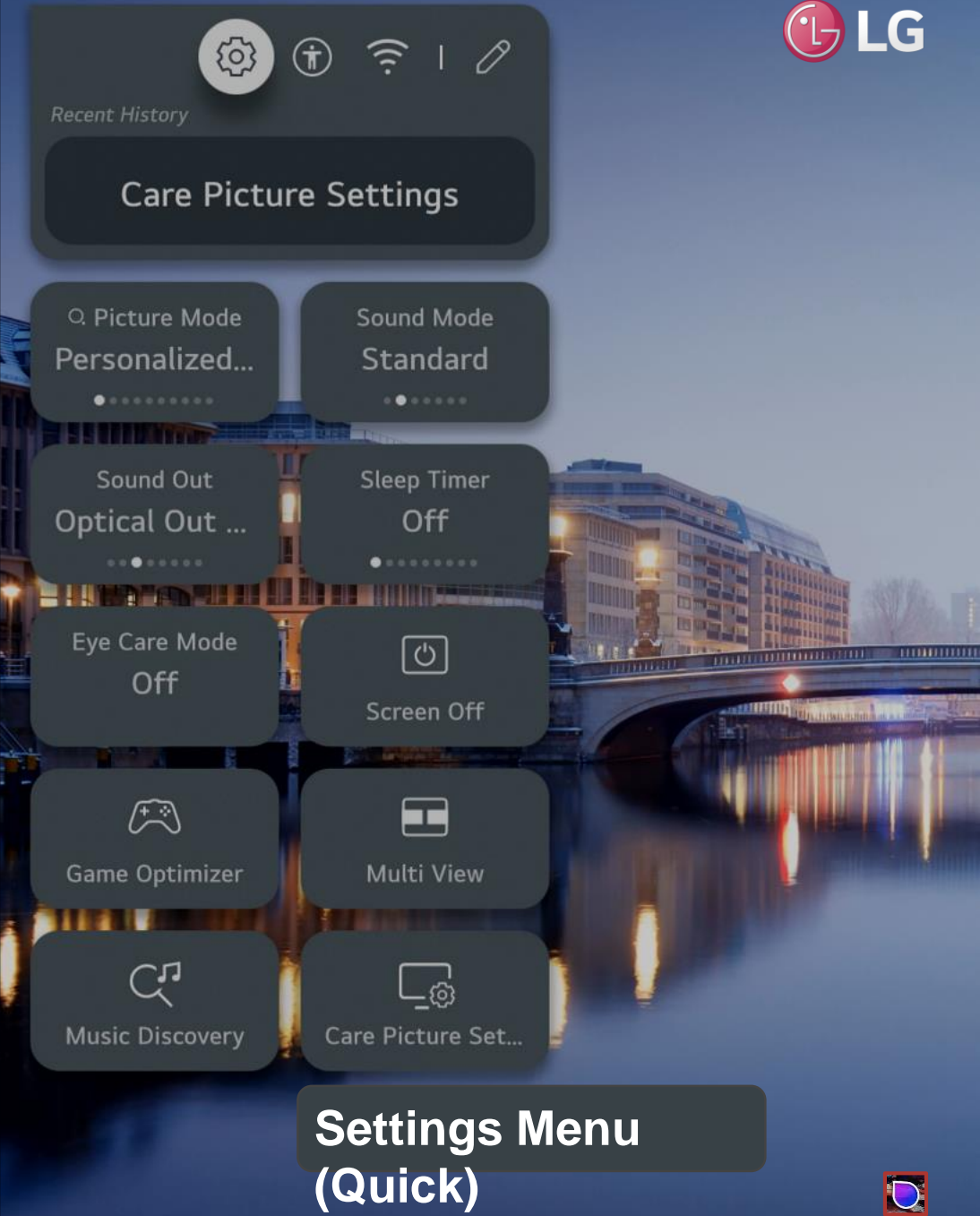
Selects the pointer size.





Settings Menu
(Standard)

LG TV Settings Out of the Box



Settings Menu
(Quick)

Energy Saving: Recommend Turning This *OFF*



To Use Energy Saving Feature

⚙️ → ⓘ → **General** → **Energy Saving**

Reduces power consumption by adjusting peak screen brightness.

Energy Saving Step

Auto : TV sensor detects the ambient lighting and automatically adjusts the screen brightness.

- Some models may not be supported.

Off : Turns off the **Energy Saving Step**.

Minimum / **Medium** / **Maximum** : Use the power saving feature according to **Energy Saving Step** set on TV.

Minimum Brightness

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

Auto Power Off

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

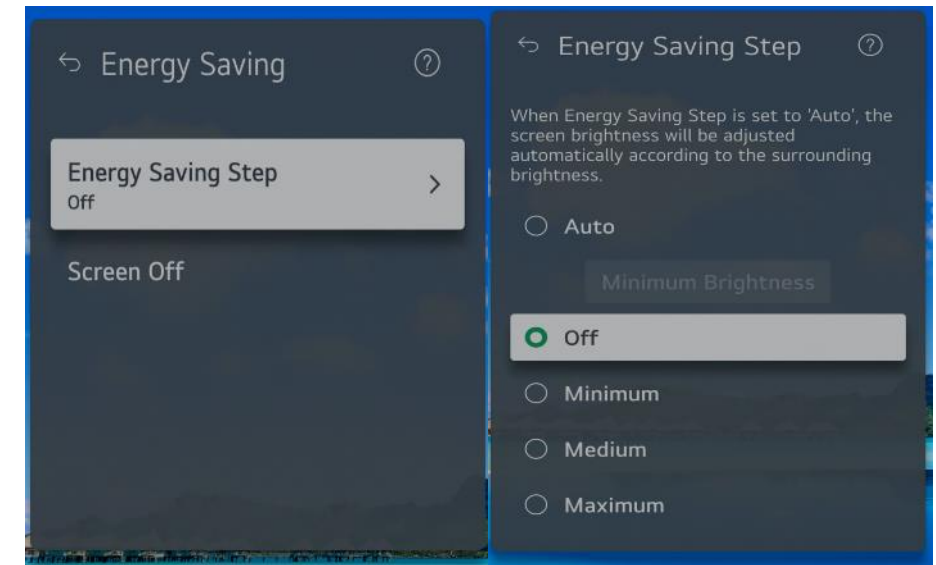
- Some models may not be supported.

Screen Off

Screen is turned off and only sound is played.

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

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



Software Update: Set to **ON** to Receive TV Updates



Software Update

⚙️ → ⓘ → **Support** → **Software Update**

Uses software update to check and obtain the latest version.



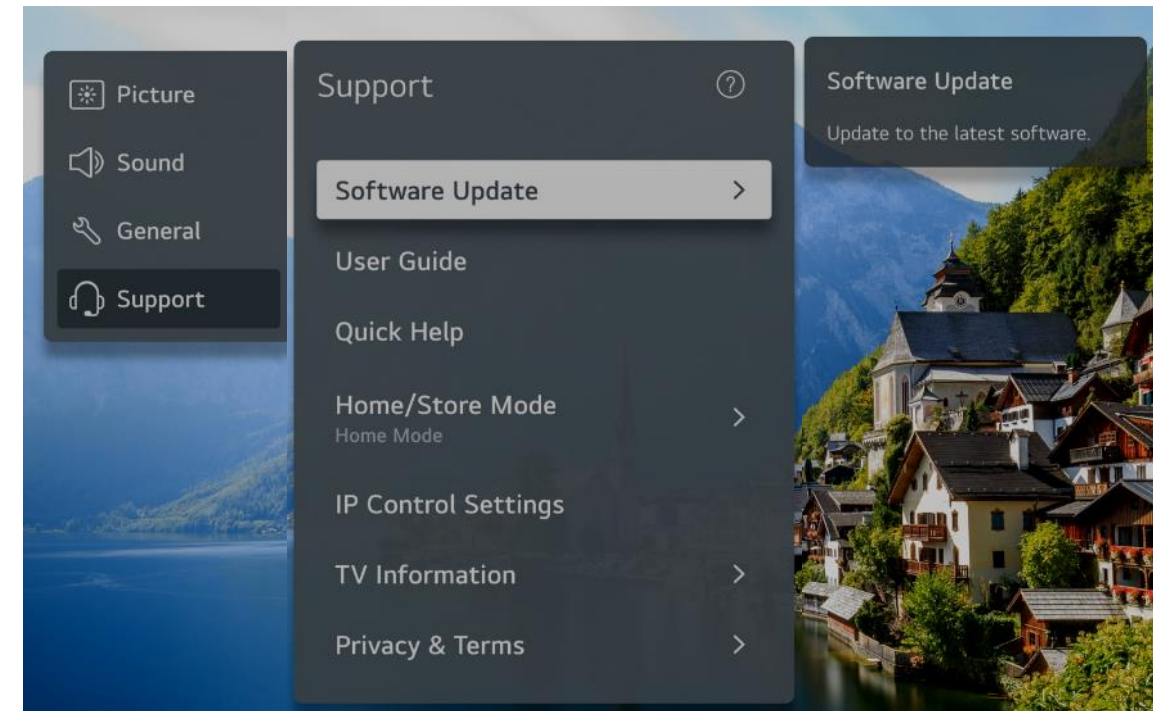
Auto Update

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

Check for Updates

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

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



Picture Settings: Out of the box



Upon Completion of Initial TV Setup Go To:

- Main Menu > General > Energy Savings > Turn OFF

Content Format:

- SDR Content
 - Filmmaker, Cinema, or ISF Modes for Accurate Picture
- HDR10 Content choose same video modes as SDR
- Dolby Vision Content
 - For Brightness with extra pop, choose VIVID - No Joke!
 - Alternatively - Cinema Home for Bright Rooms

Each Input Has a Picture Mode For:

- SDR
- HDR10 / HLG
- Dolby Vision*
- Picture mode options vary per signal source specification
- Once picture mode is tweaked, it will load automatically as source changes



A vibrant night scene featuring a city skyline across a body of water. The sky is filled with numerous large, bright fireworks exploding in shades of red, orange, and yellow. The city lights are reflected in the calm water, and several dark wooden posts are visible in the foreground. The overall atmosphere is festive and celebratory.

LG Picture Recommendations

Picture Recommendations: Bright



All Source Signals:

- Picture Menu > Advanced Settings > **Brightness**
 - OLED Pixel Brightness – 100
 - Adjust Contrast – 100
 - Black Level – 50 (default)
 - Auto Dynamic Contrast – OFF (Default)
 - Peak Brightness - High
 - Gamma
 - 1.9 for BRIGHT rooms
 - 2.2/ BT.1886 Default is fine
 - 2.4 for DARK rooms



With HDR Signals:

- Dynamic Tone Mapping - On by default
- Expression Enhancer - Brightness for more Pop

Accurate Image Modes:

- Filmmaker
- ISF Bright / Dark
- Cinema Home
- Cinema

Picture Recommendations: Color

All Source Signals:

- Picture Menu > Advanced Settings > Color
 - Color Depth - 50 (Default)
 - Tint - 0 (default)
 - Color Gamut
 - Auto Detect
 - “Native” will convert Rec:709 to ~DCI-P3
 - Fine Tune
 - Default - “Bump” color adjust up to personal liking
 - Color Temperature
 - Warm 50 targets D6500K White Point (accurate)



Picture Recommendations: Clarity

All Source Signals:

- Picture Menu > Advanced Settings > Clarity
- Sharpness - 10 (Default)
 - Adjust 21 or less recommended
- Super Resolution
 - OFF for high quality sources, adjust to taste
- Noise Reduction
 - Recommend OFF, but depends on source
- MPEG Noise Reduction
 - Recommend Off for Quality Sources, ON for Streaming
- Smooth Gradation
 - OFF for BD-Player & Apple TV
 - LOW for streaming or if banding is seen
- Real Cinema - ON (default)
- TruMotion
 - Off or Cinematic Movement for purist
 - Natural = good for sports
 - Smooth for those who want things to look “real” in movement



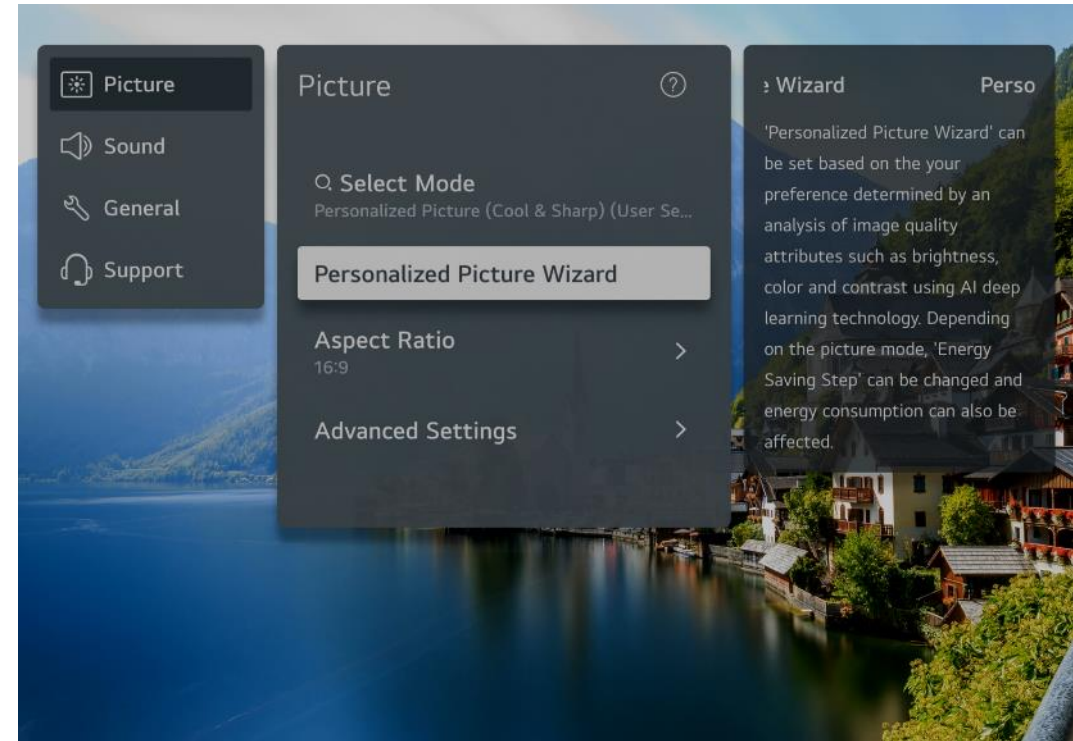


Personalized Picture Wizard

⚙️ → ⚙️ → **Picture** → **Personalized Picture Wizard**

Analyzes the image selected by the user with artificial intelligence deep learning technology and sets it to the optimal image quality preferred by the user. Press the **Start** button on the screen and select your favorite image for each step.

- When you complete the setup of **Personalized Picture Wizard** settings, Picture Mode for all inputs changes to **Personalized Picture**.
To set up Picture Mode differently for each input, press the  button to select the input you want to change, and then change to the desired Picture Mode in ⚙️ → ⚙️ → **Picture** → **Select Mode**.
- Depending on the image quality set, **Energy Saving Step** may change and affect energy consumption.



Personalized Picture Wizard



Picture Recommendations

Picture Menu > *Personalized Picture Wizard*

- Begin process of selecting up to two images from six *Picture Quality* categories
- Upon completion view the *Before and After Images* and select *Apply* to create your personalized picture mode



Picture Personalized to You:

- Personalized Picture Wizard analyzes 85 million potential settings to find the best photo settings possible
- Personalized Picture Wizard analyzes viewers' color preferences to provide personalized display settings

1

2

3

4

5

6

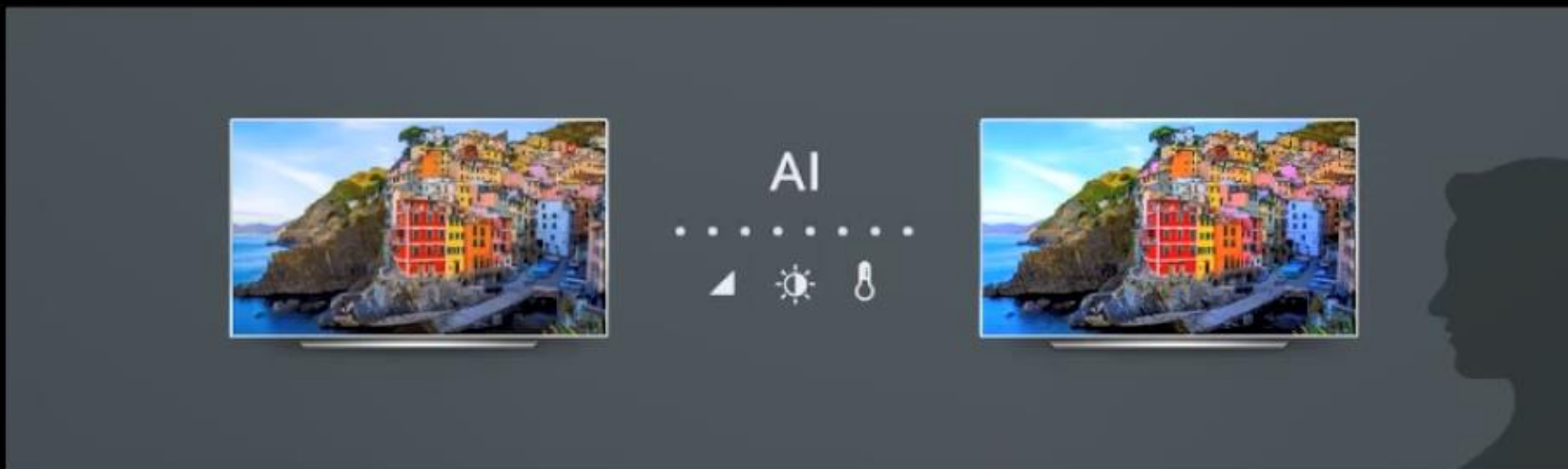
7

8

< Exit

Personalized Picture Wizard

'Personalized Picture Wizard' can be set based on the your preference determined by an analysis of image quality attributes such as brightness, color and contrast using AI deep learning technology.



Your previous settings will not be changed until you press the Apply button on the last step of a new analysis.

Start

< Exit

Personalized Picture Wizard

So, shall we begin?



Select up to 2 images with preferred picture quality among the images.

Next

< Previous

Personalized Picture Wizard

I'm getting to know what kind of picture you like.



Select up to 2 images with preferred picture quality among the images.

Exit

Next

< Previous

Personalized Picture Wizard

Skip >

I'm getting to know what kind of picture you like.



Select up to 2 images with preferred picture quality among the images.

Exit

Next

< Previous

Personalized Picture Wizard

Skip >

I'm beginning to see your preference.



Select up to 2 images with preferred picture quality among the images.

Exit

Next

< Previous

Personalized Picture Wizard

Skip >

Now I almost have a clear idea of what you like.



Select up to 2 images with preferred picture quality among the images.

Exit

Next

< Previous

Personalized Picture Wizard

Skip >

This is the last step! Let's get it done.



Select up to 2 images with preferred picture quality among the images.

Exit

Next

< Previous

Analysis completed

Once the settings are complete, the picture mode will be changed.

You like a balanced picture!

Before



After



The screen may not be displayed in the new mode when the Gallery app is running.

Exit

Apply



LG TV Additional Settings

- + Art Gallery
- + Quick Settings
- + Always Ready
- + Game Dashboard
- + Game Optimizer

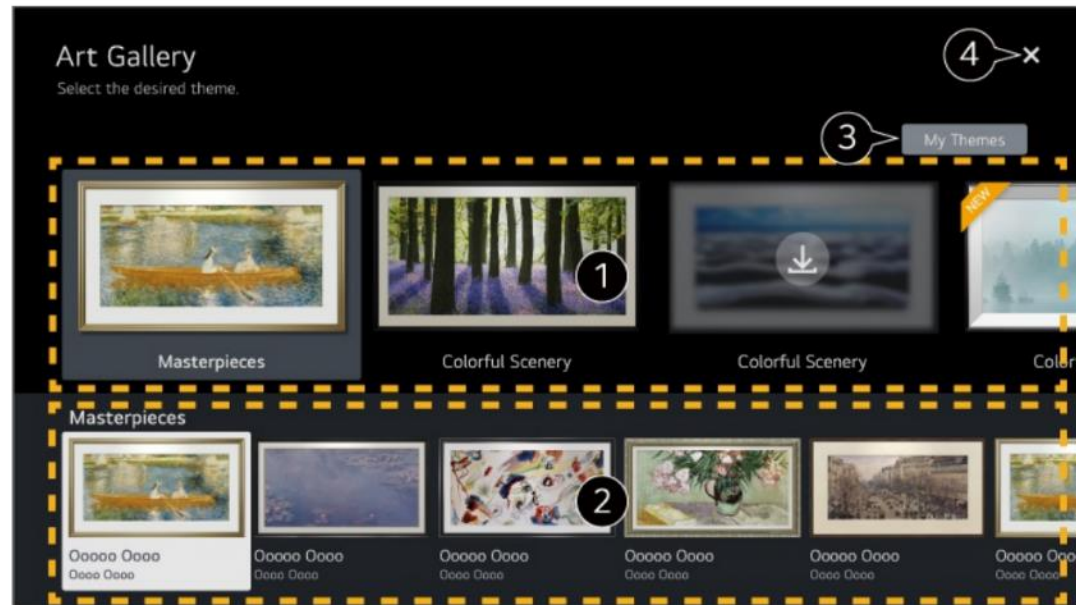


Art Gallery

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

01 Press the  button on the remote control.

02 Run the **Art Gallery** app.






① You can enjoy images that fit the theme.

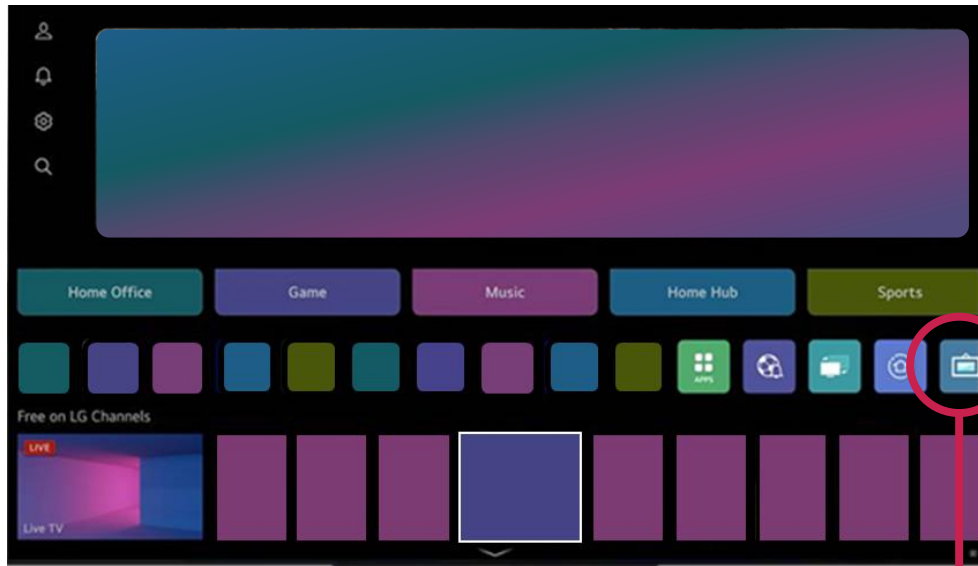
② You can view the information and image of the focused theme in advance.

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

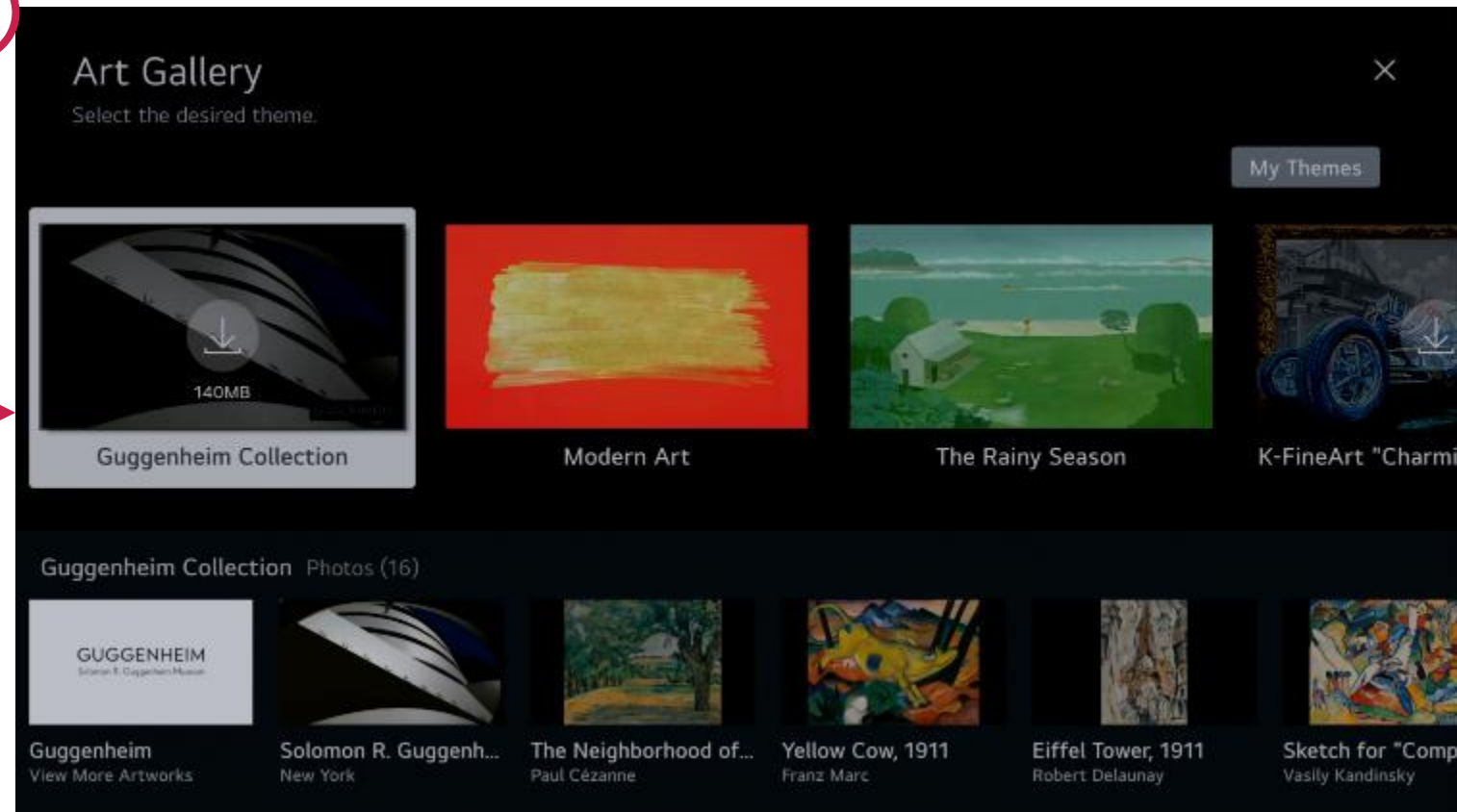
④ Closes the app.

- To turn off the app from running in the background, press the  button on the remote control and select **Quit App**.
If your remote control does not have a  button, press and hold the  button.

Art Gallery




Press Home Button
Select Art Gallery




Quick Settings: Access Frequently Used Settings

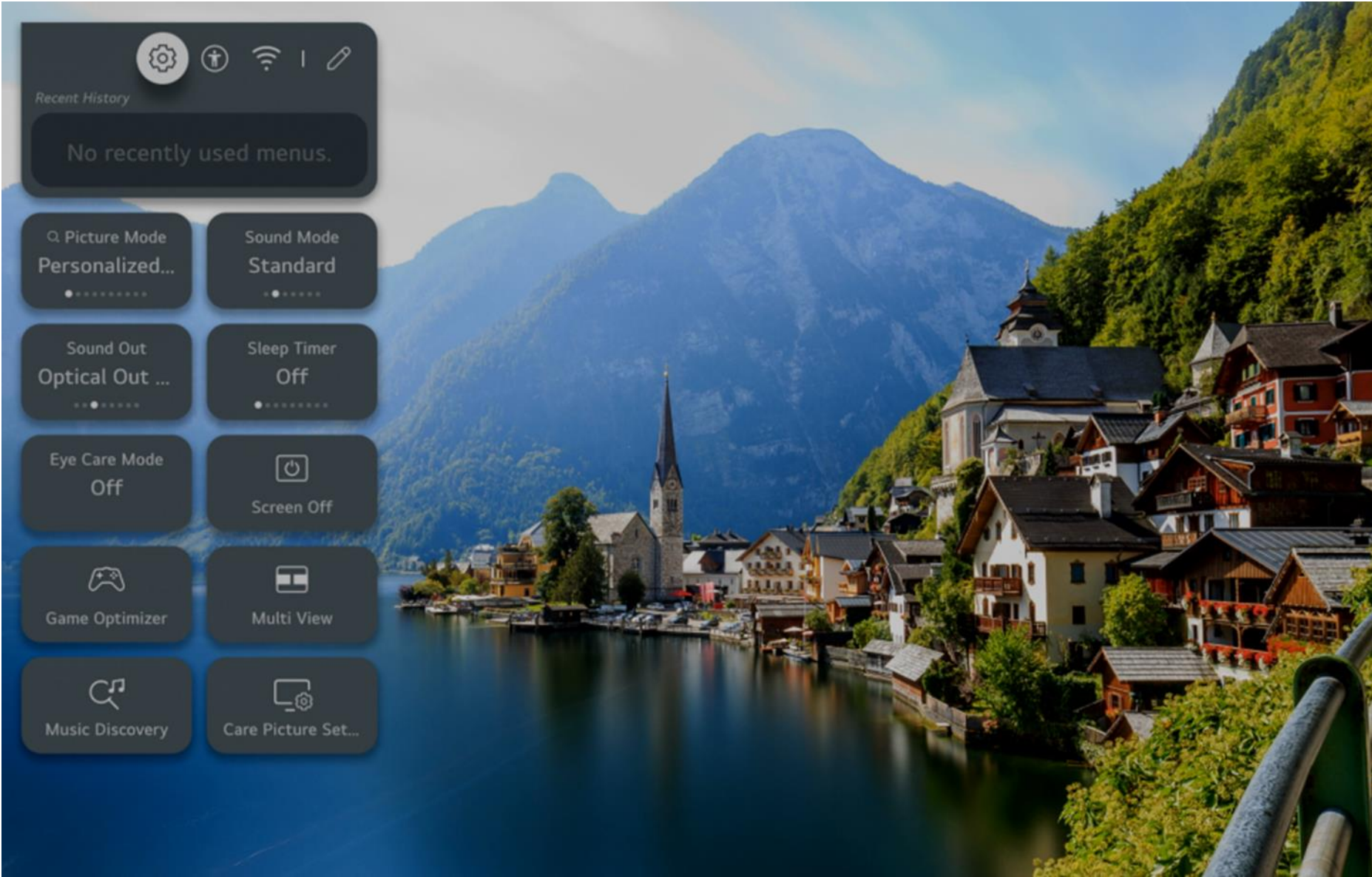
To Use Setting Function Quickly

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



- ❶ You can set more options.
 - You can also long-press  button of the remote control to run the All settings directly.
- ❷ Directs to the **Accessibility** settings.
- ❸ Directs to the **Network** settings.
- ❹ You can add/delete items in **Quick Settings** and change the order.
- ❺ The most recently selected item in **Quick Settings** is displayed.
- ❻ You can change the settings for screen, sound, etc. or run functions.
 - You can edit it to any item you wish.
 - The configurable items differ depending upon model.

Quick Settings: Access Frequently Used Settings



Short Press
Settings
Button

Always Ready: On TVs with the α9 AI Processor Gen6



Voice Only:
Say "Always Ready"

1.
2.
3.
4.
5.

General > Always Ready > Enable


Game Dashboard

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

Press the  button on the remote control.

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

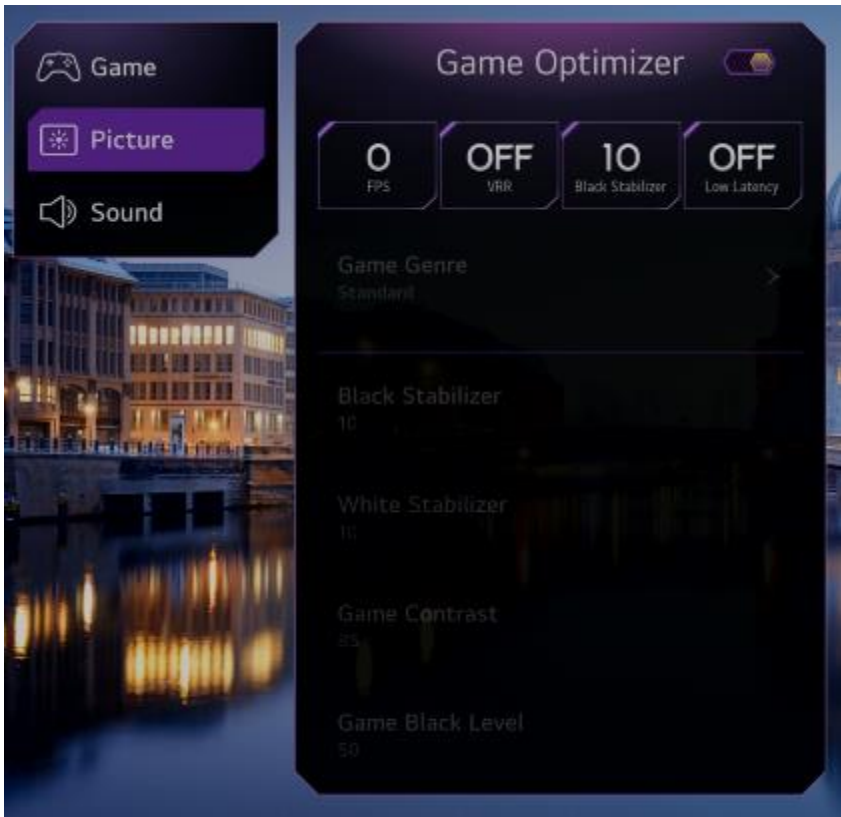
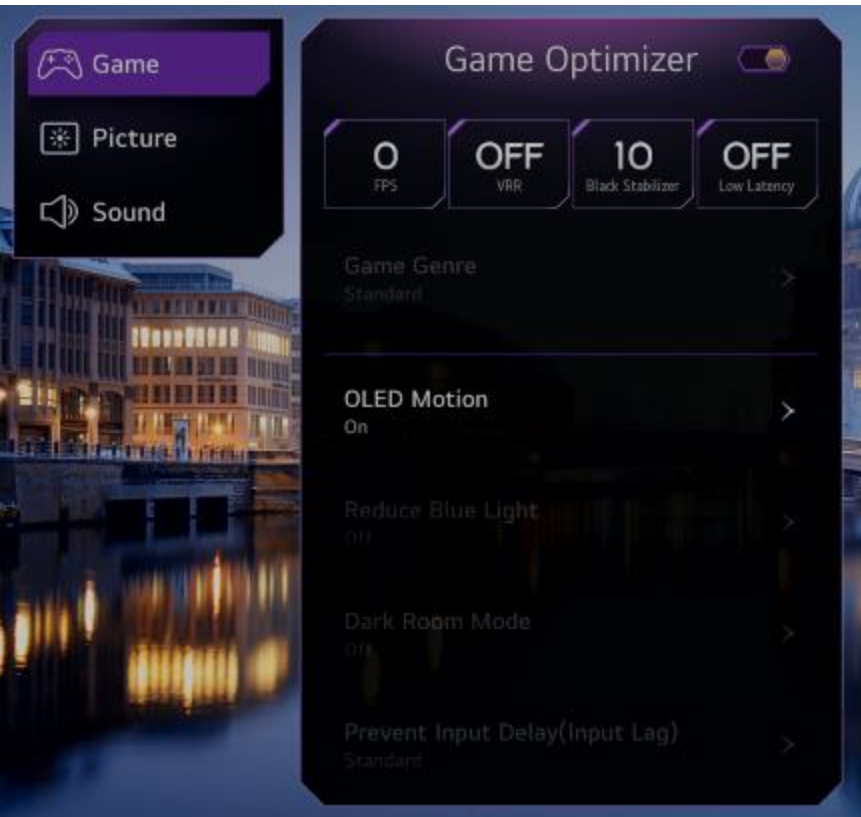


- You can optimize the screen depending on the genre of the game.
- Real-time signals and the selected genre's settings values are displayed.
 - The items displayed may vary by model.
- Launch **User Guide**.
- Dark Room Mode** : You can adjust the brightness of the entire screen to reduce eye strain in a dark environment or when watching for a long time to make the screen easier to watch.
Multi View : You can split the screen and use two apps simultaneously.
Menu Color : You can change the color of the menu.
Game Optimizer : Directs to the **Game Optimizer** settings. To see the details, click the **Settings** → **Game Optimizer** in **User Guide**.
All Settings : You can set more options. You can also long-press  button of the remote control to run the All settings directly.
 - There may be restrictions on running **Multi View** in some contents.
- The order of the items displayed on the **Game Dashboard** can be changed or replaced with other items.
 - The configurable items differ depending upon model.

Game Optimizer Menu



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



Common Troubleshooting Steps

- Network Connection Issues
- Poor Picture Quality (color, brightness, grainy etc.)

Troubleshooting: Network Connection Issues



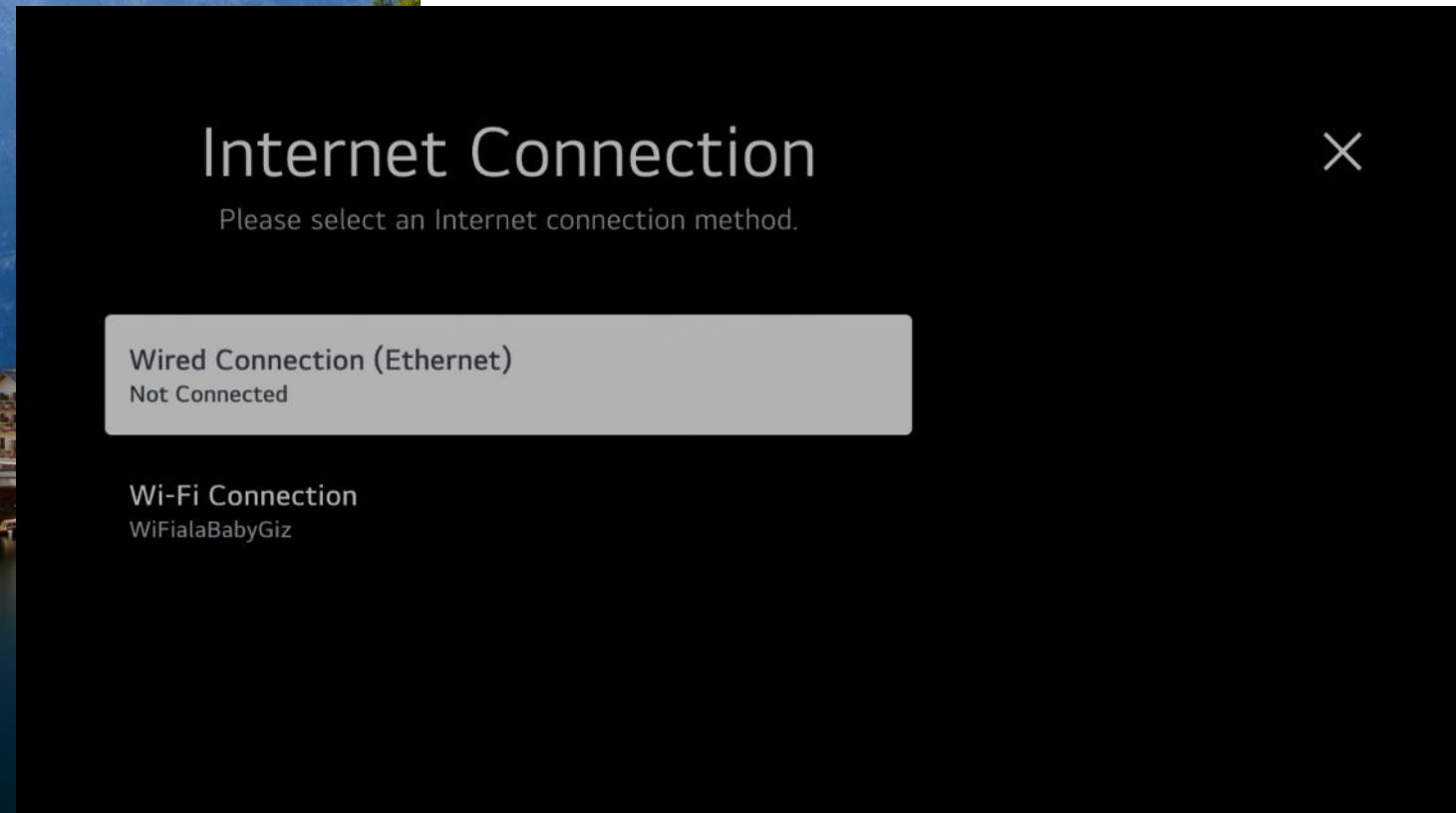
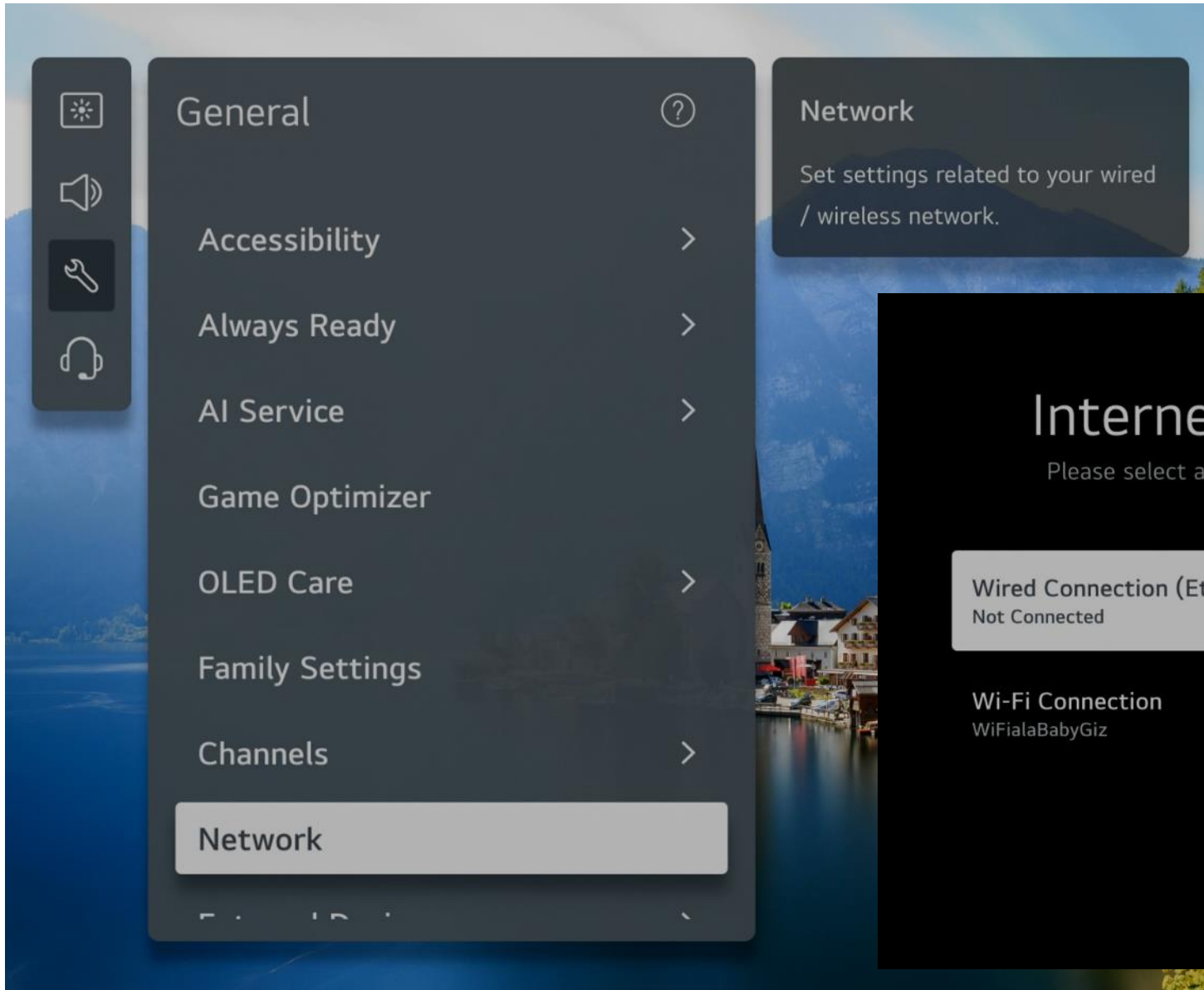
If you experience any of the problems below while using the product, please check the following. There may not be a problem with the product.

Before connecting to a wireless network, check the name and password of the Wi-Fi device to connect.

You can check the network connection status as shown below.


-  →  → **General** → **Network** → **Wired Connection (Ethernet)**
-  →  → **General** → **Network** → **Wi-Fi Connection** → **Other Network Settings** → **Advanced Wi-Fi Settings**
- Some models may support the **Wi-Fi Connection** function only.



Troubleshooting: Network Connection Issues

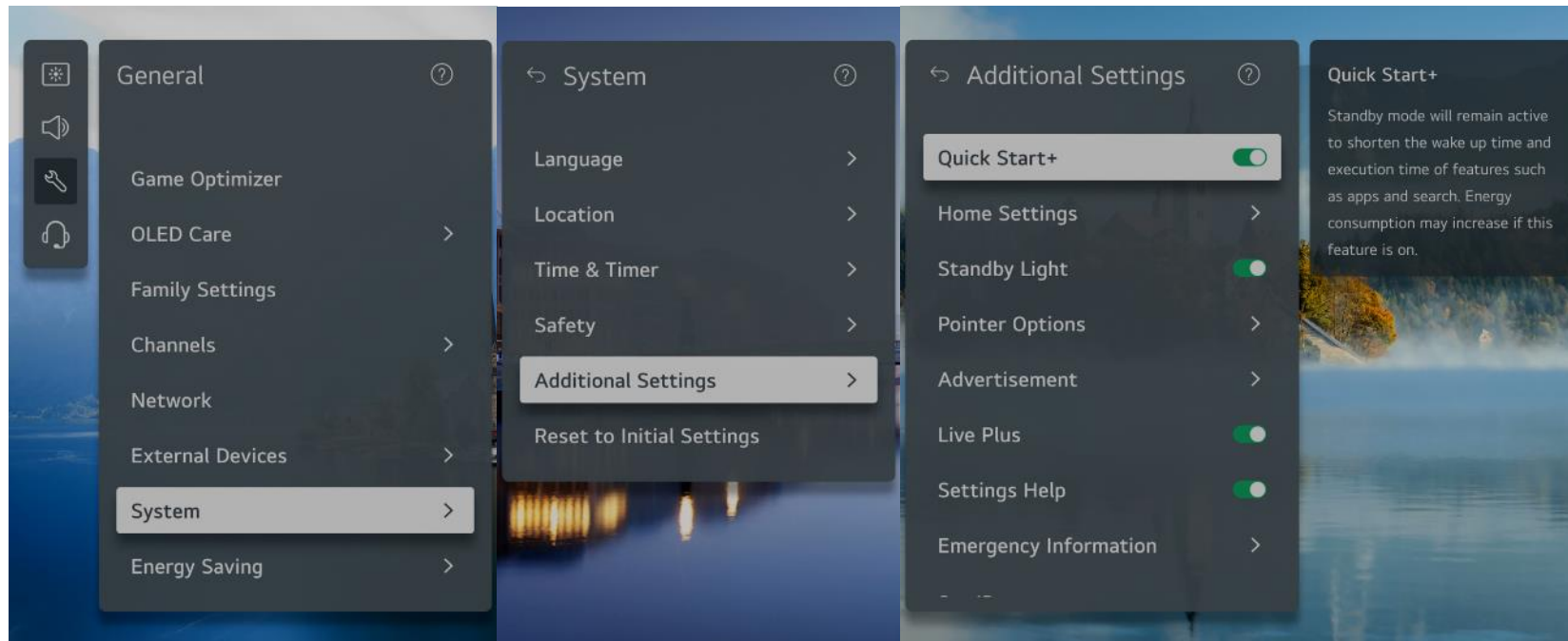


Troubleshooting: Network Connection Issues

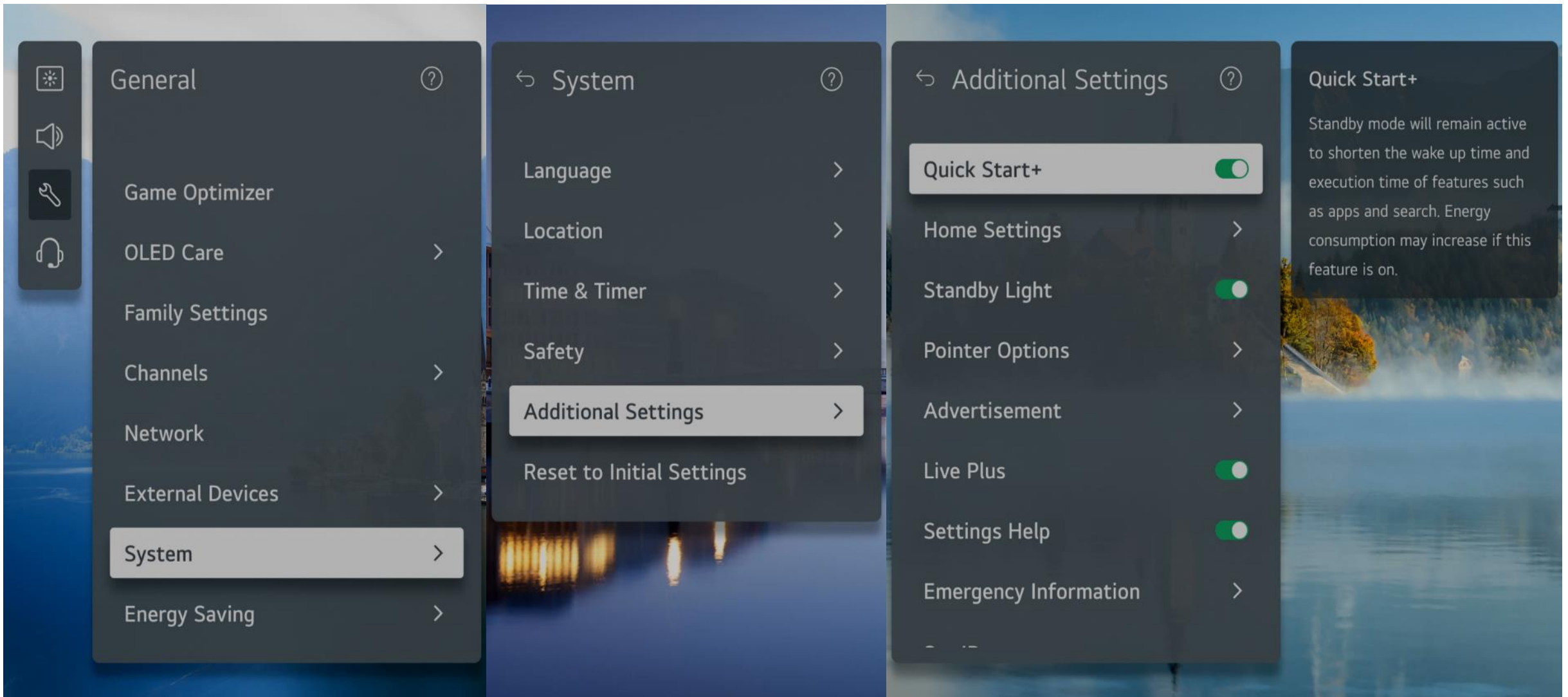


 The wireless network connection is not working.

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



Troubleshooting: Network Connection Issues



Troubleshooting - Network Connection Issues



When X appears next to TV

- Check the TV or the AP (Router).
- Check the connection status of the TV, AP (Router) and Cable Modem.
- Power off and power on in the following order;
 1. Turn your cable modem off and back on, and wait for the device to reset.
 2. Turn the wired/wireless router off and back on, and wait for the device to reset.
 3. Turn the TV off and on.
- If you want to establish a wired LAN connection check whether an IP address can be obtained from your router properly. If you are setting up your network manually check whether all settings are correct.
- If you want to establish a wireless connection check the following points as well.
 - ① Set your router's SSID (network name) or wireless channel.
 - ② Set your router's security key.

If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.
- If you are using a static IP, enter the IP directly.

Troubleshooting: Network Connection Issues



When X appears next to Gateway

- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.
- Initialize (Reset) on the AP (Router) or Cable Modem.
- Check the AP (Router) manufacturer's website to make sure your router has the latest firmware version installed.
- If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.

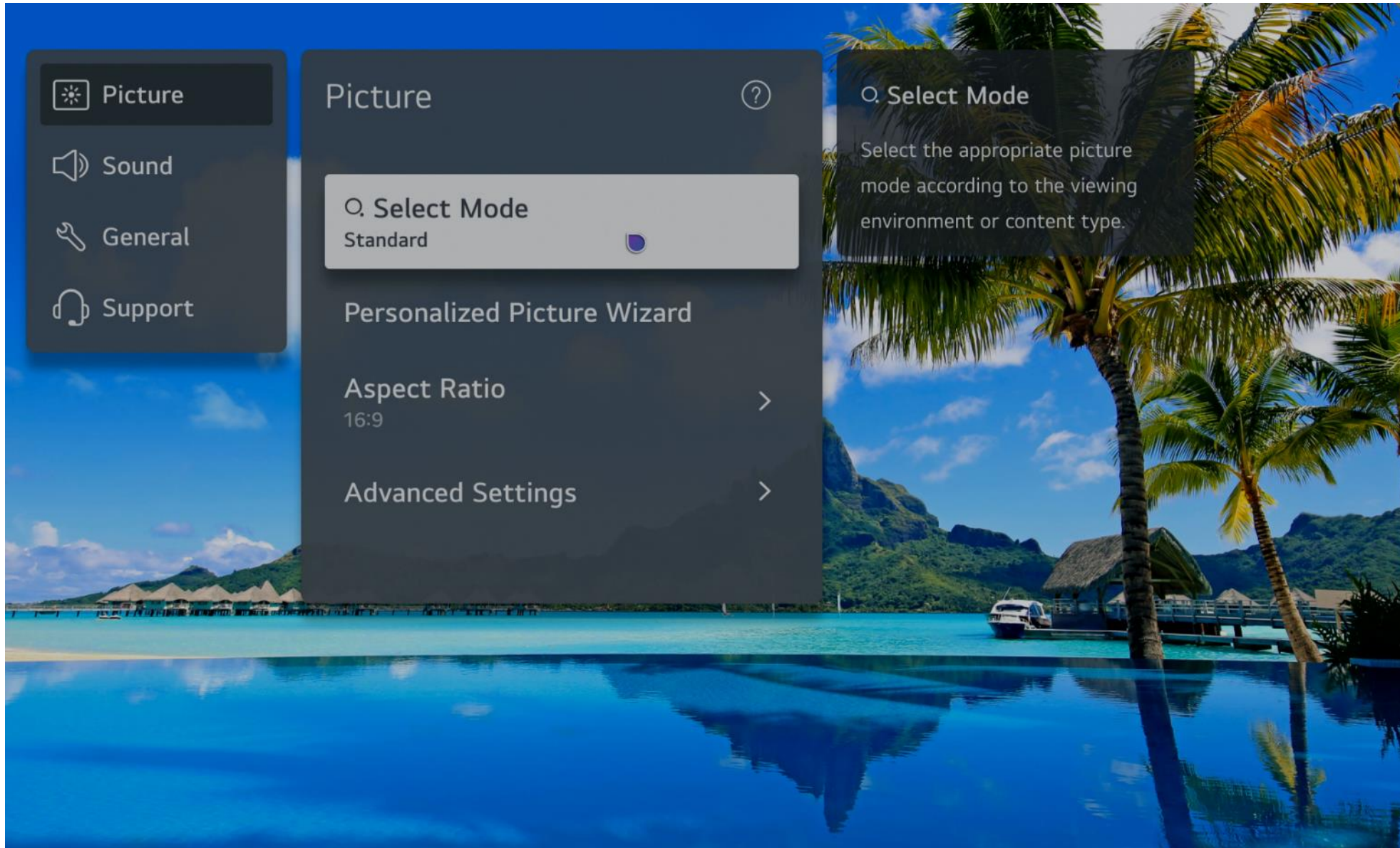
Troubleshooting: Network Connection Issues



When X appears next to DNS

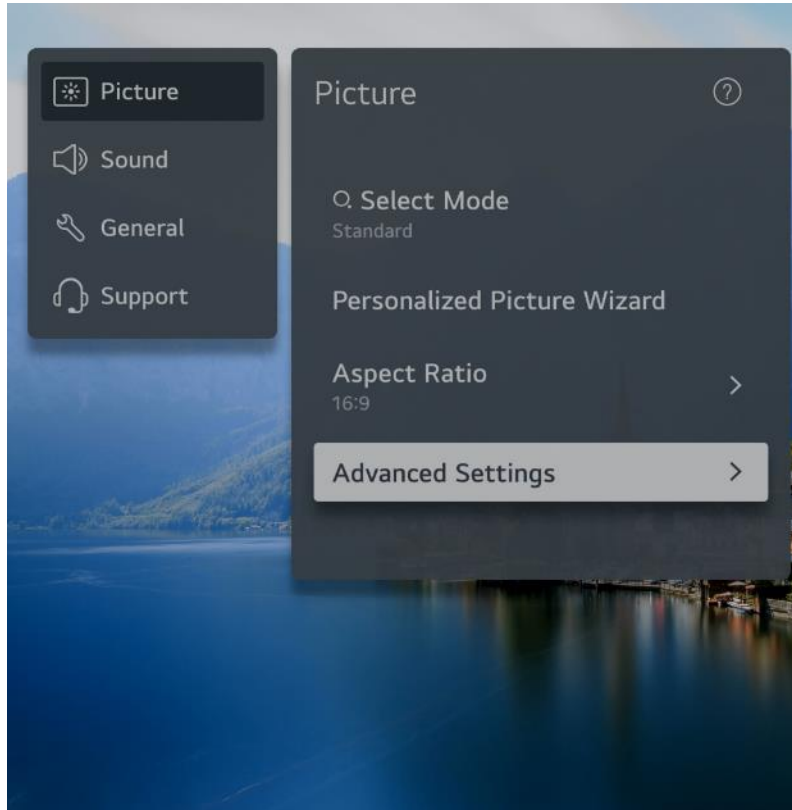
- Check the AP (Router) or consult your Internet service provider.
- Unplug the router/cable modem from the wall outlet, wait 10 seconds and reconnect it.
- Initialize (Reset) on the AP (Router) or Cable Modem.
- Check that the MAC address of the TV/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the pane of the network status window should be registered with your Internet service provider.)
- If you can't complete this setting, refer to the router's user manual and the instructions provided by your Internet provider. If you are still unable to establish your configuration, consult your router's manufacturer or your Internet service provider.

Troubleshooting: Poor Picture Quality













Long Press
Settings
Button

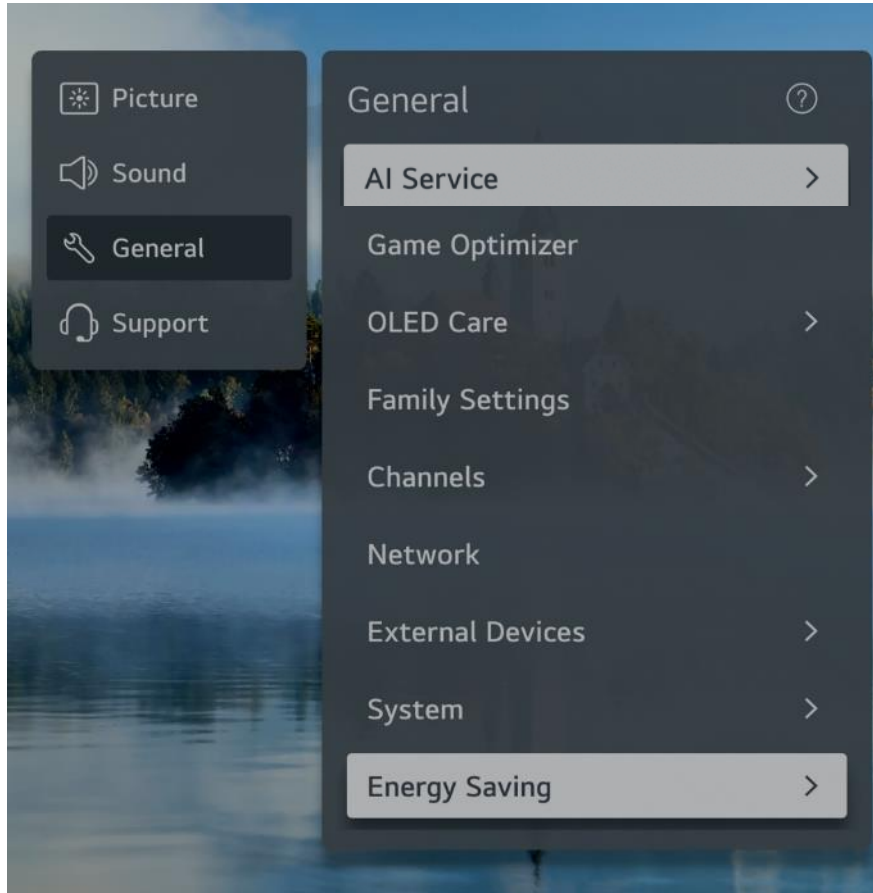
Trouble Shooting: Poor Picture Quality



 The screen looks too dim or dark.

-  →  → **Picture** → **Select Mode**
Switch **Select Mode** to your desired picture mode. (**Standard**, **Vivid**, etc.)
This applies to the current input mode only.
-  →  → **Picture** → **Advanced Settings** → **Brightness** → **Motion Eye Care**
Switch **Motion Eye Care** to **Off**. This applies to the current input mode only.
-  →  → **Picture** → **Advanced Settings** → **Reduce Blue light**
Switch **Reduce Blue light** to **Off**.
-  →  → **General** → **OLED Care** → **Care Picture Settings**
Switch **Care Picture Settings** to **Off**.
-  →  → **General** → **Energy Saving**
Switch **Energy Saving Step** to either **Off** or **Minimum**.

Trouble Shooting: Poor Picture Quality



?! The screen brightness keeps changing.

- ⚙️ → ⚙️ → **General** → **Energy Saving**
Switch **Energy Saving Step** to either **Off** or **Minimum**.
- ⚙️ → ⚙️ → **General** → **AI Service** → **AI Picture Pro**
Switch **AI Picture Pro** to **Off**.
- ⚙️ → ⚙️ → **General** → **AI Service** → **AI Brightness Settings**
Switch **AI Brightness Settings** to **Off**.

LG TV Self-Diagnostics

- Picture Test
- Picture and Sound Diagnostics | Optimization

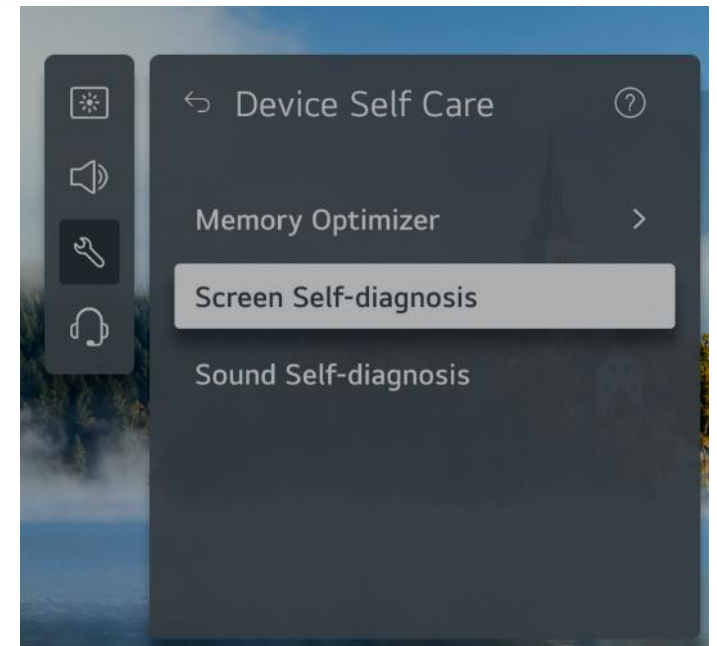


Troubleshooting Screen Issues

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

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

If you are using a set-top box, turn it off, and then turn it back on.
Make sure that the set-top box is correctly connected to your TV.



Troubleshooting: TV Picture/Sound Test with *OLED Care*



Device Self Care

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

Memory Optimizer

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

* Screen Self-diagnosis

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

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

* Sound Self-diagnosis

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

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

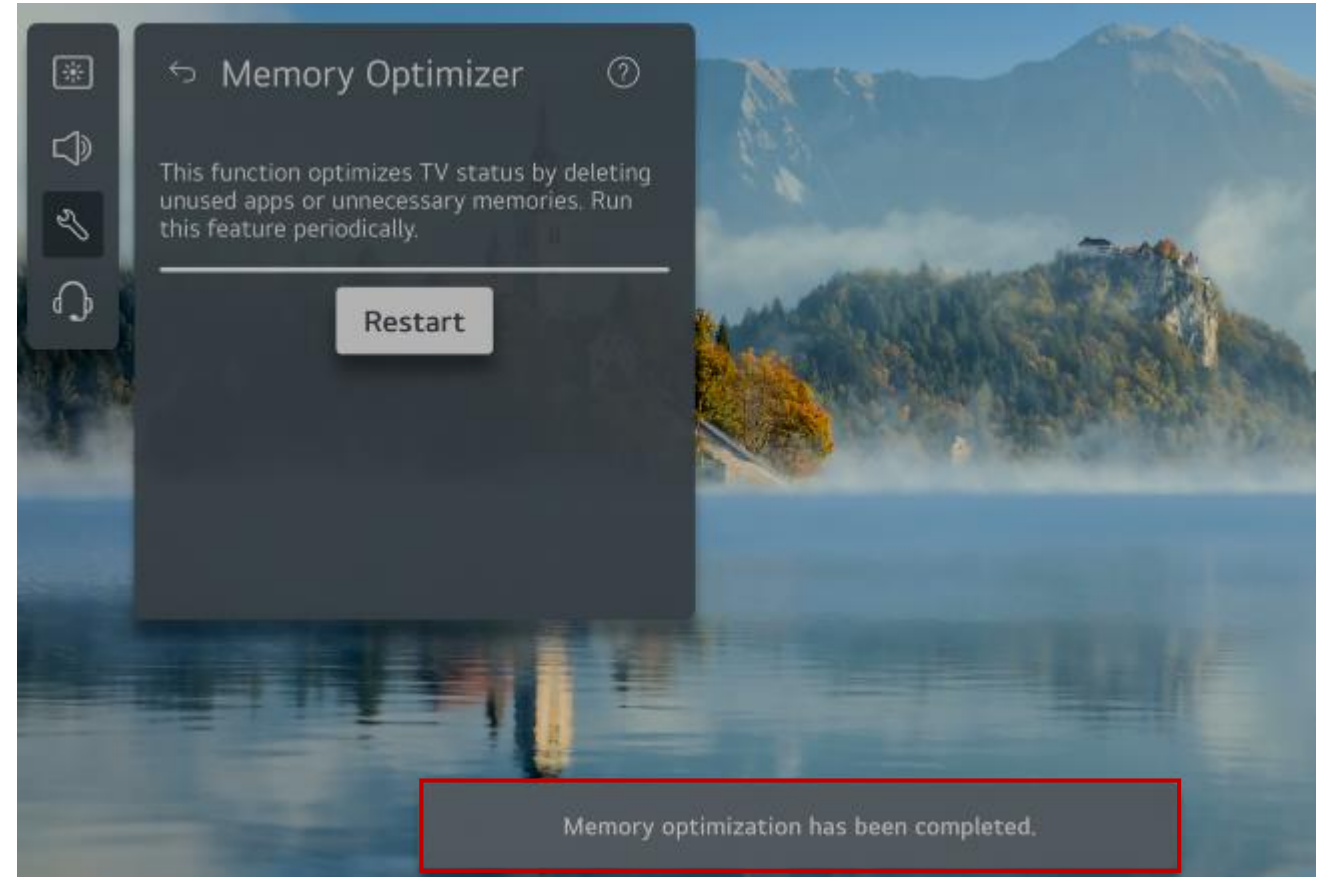
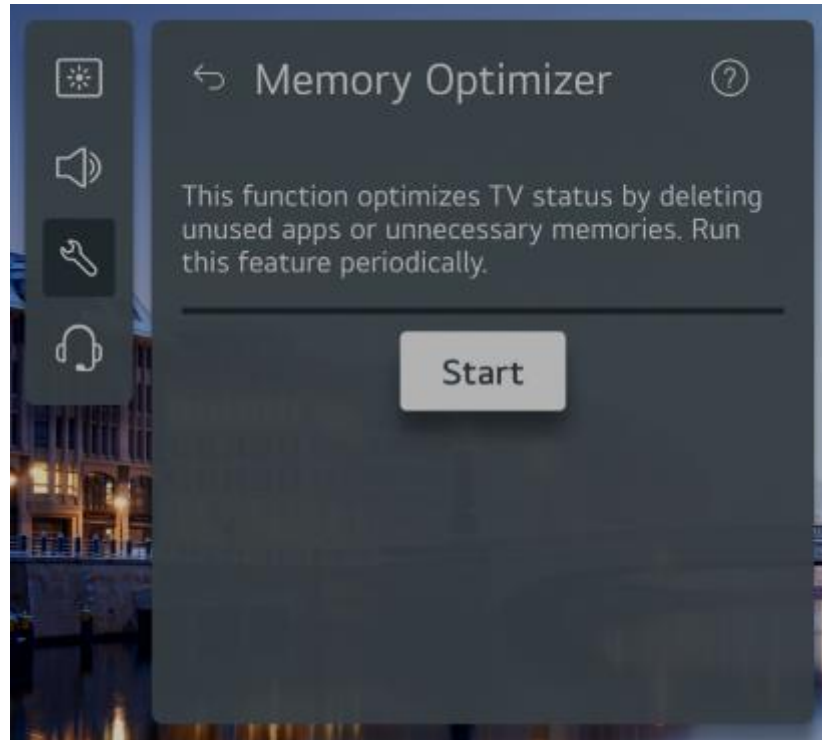
*For this feature in QNED go to: Support > Screen Self-diagnosis | Support > Sound Self-diagnosis
This is a separate feature from Quick Help in the Support Menu

Troubleshooting: TV Picture/Sound Test with *OLED Care*



Memory Optimizer

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

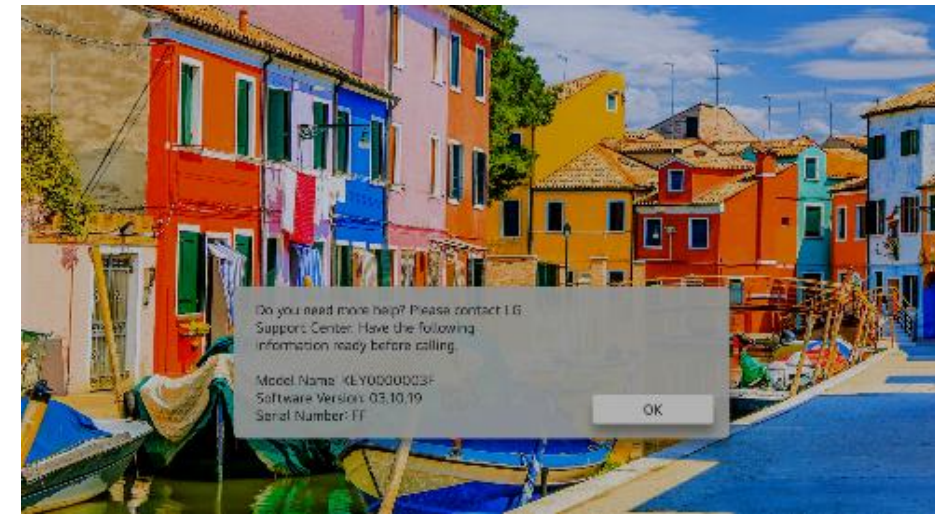
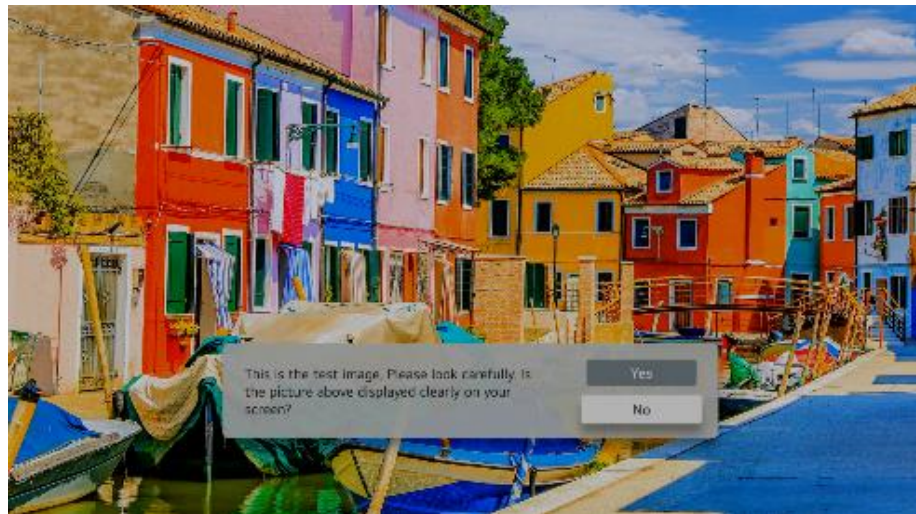
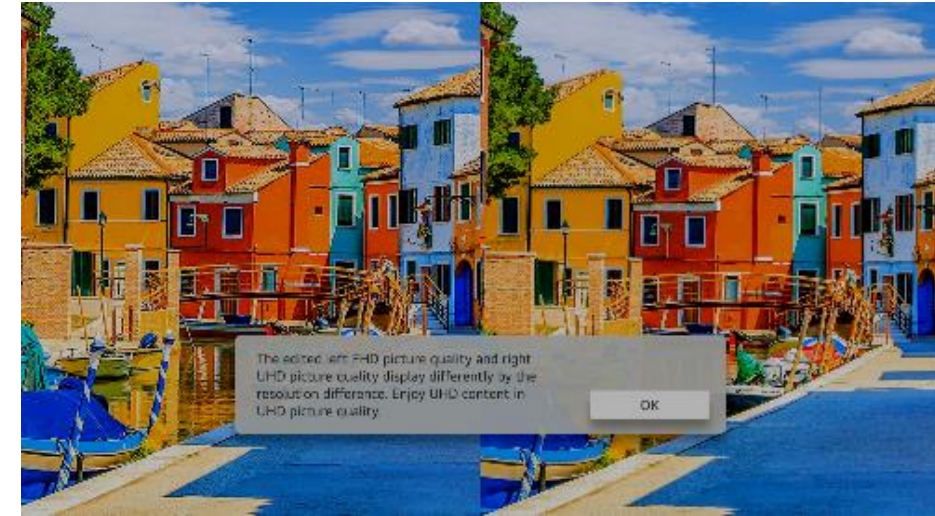
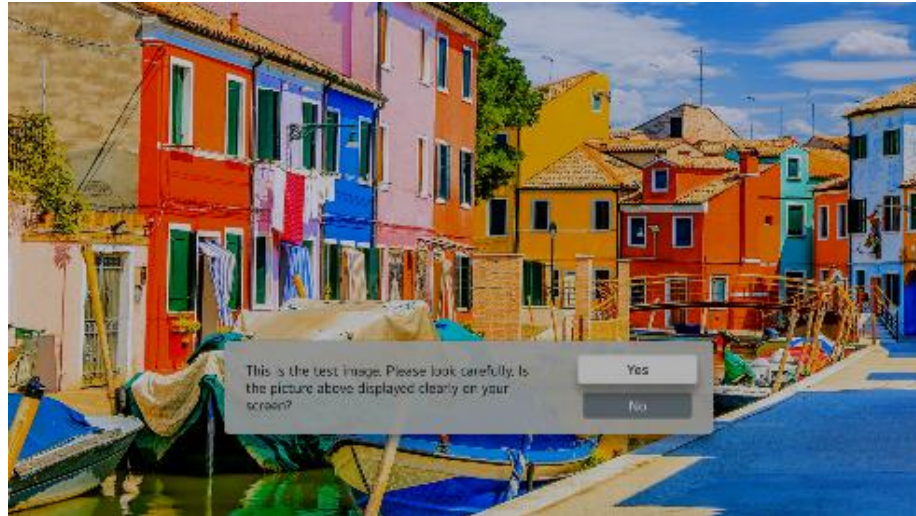


Troubleshooting: TV Picture Test with *OLED Care*



Screen Self-diagnosis

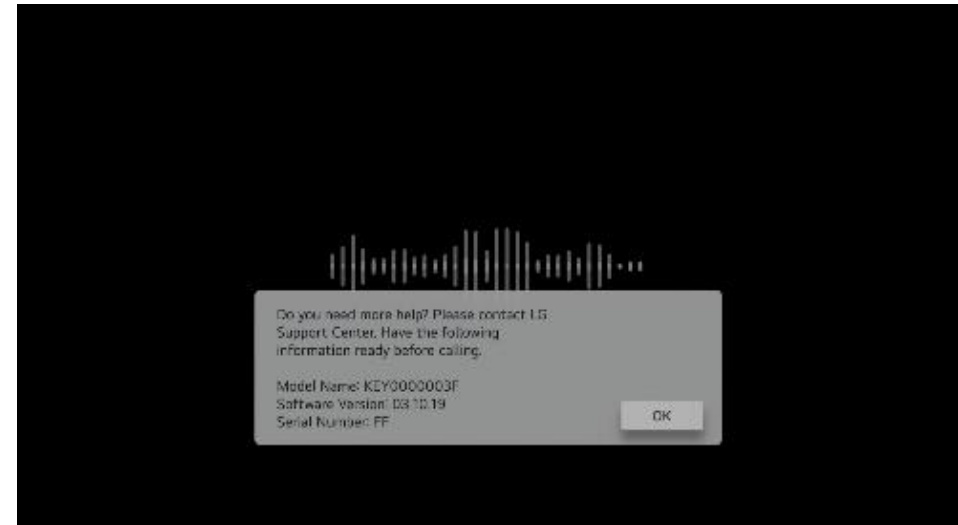
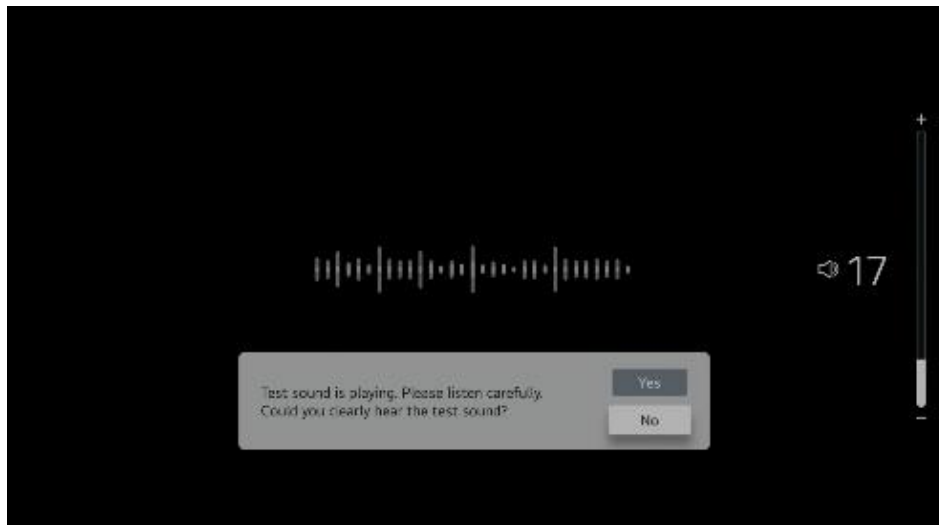
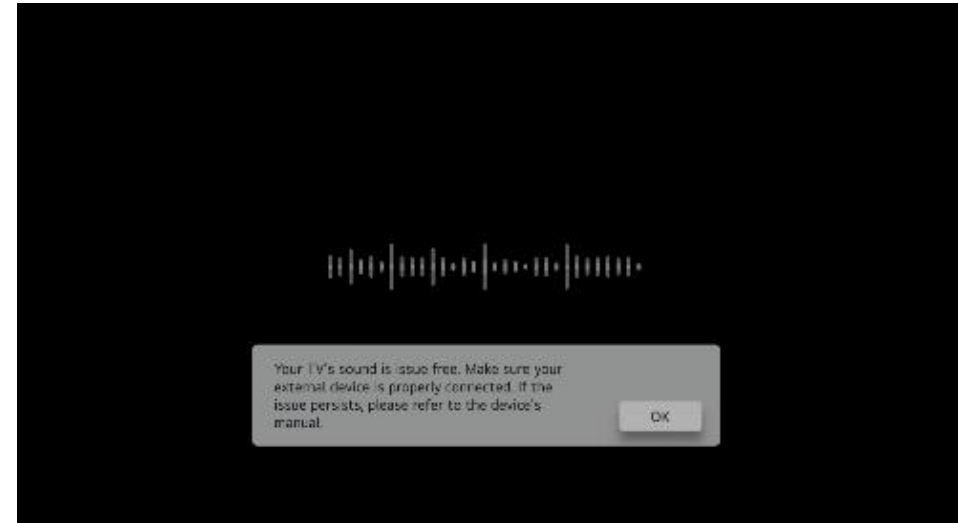
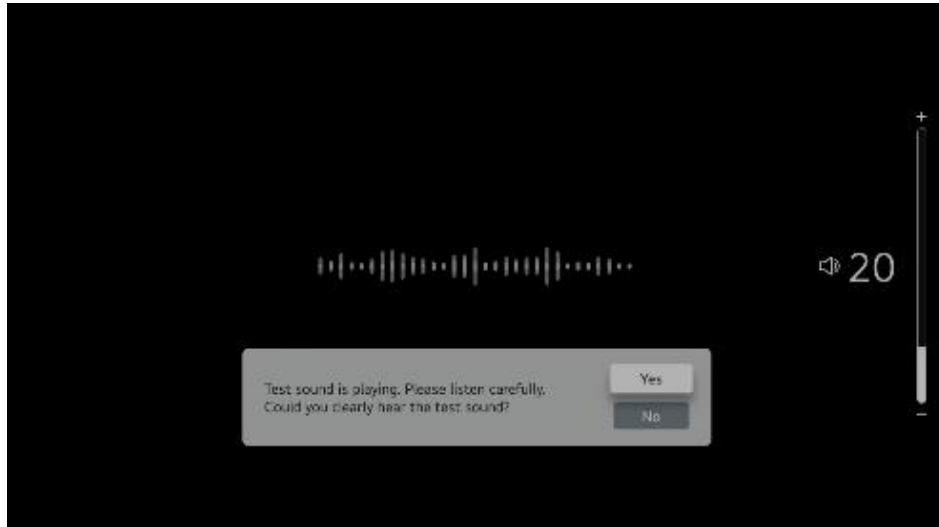
After running a test to verify that the image signal is output normally, you can select whether there is an error with the signal on the screen. If there are no problems in the test check the connected external device or broadcast signal.



Troubleshooting: TV Picture Test with *OLED Care*

Sound Self-diagnosis

Start the Sound Test to check that the sound signal output is normal, and then select whether there is an error. If there are no problems in the test, check the connected external device or broadcast signal.



Troubleshooting – TV Picture Quality with *OLED Care*



OLED Panel Care

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

Pixel Cleaning

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

Calibration may take more than an hour.

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

Screen Move

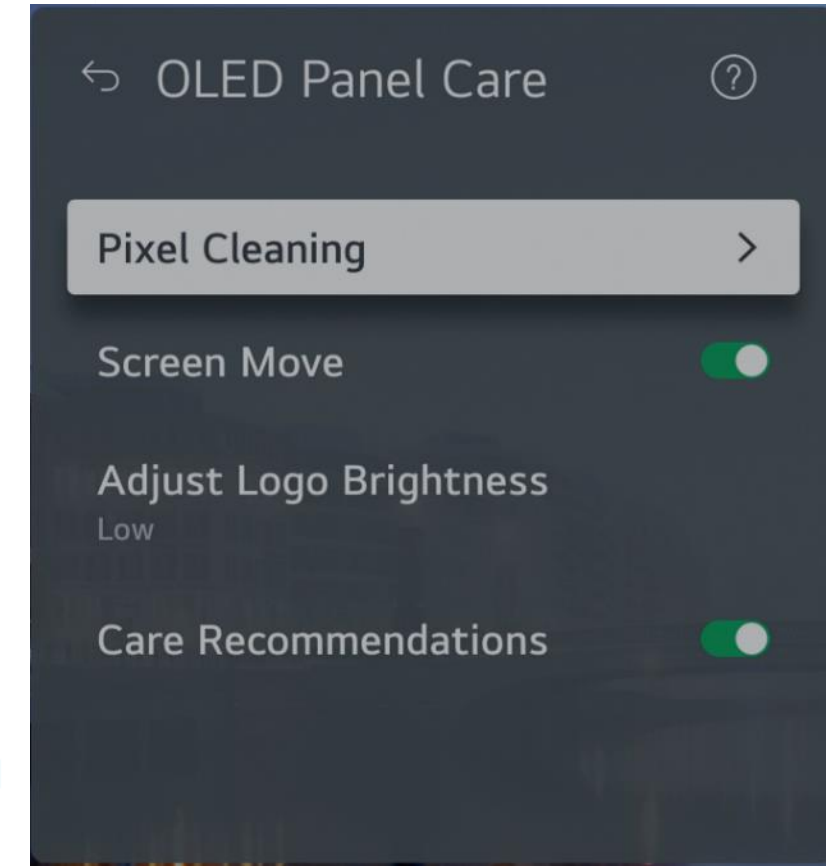
This moves the screen slightly at regular intervals to prevent image sticking on the display panel.

Adjust Logo Brightness

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

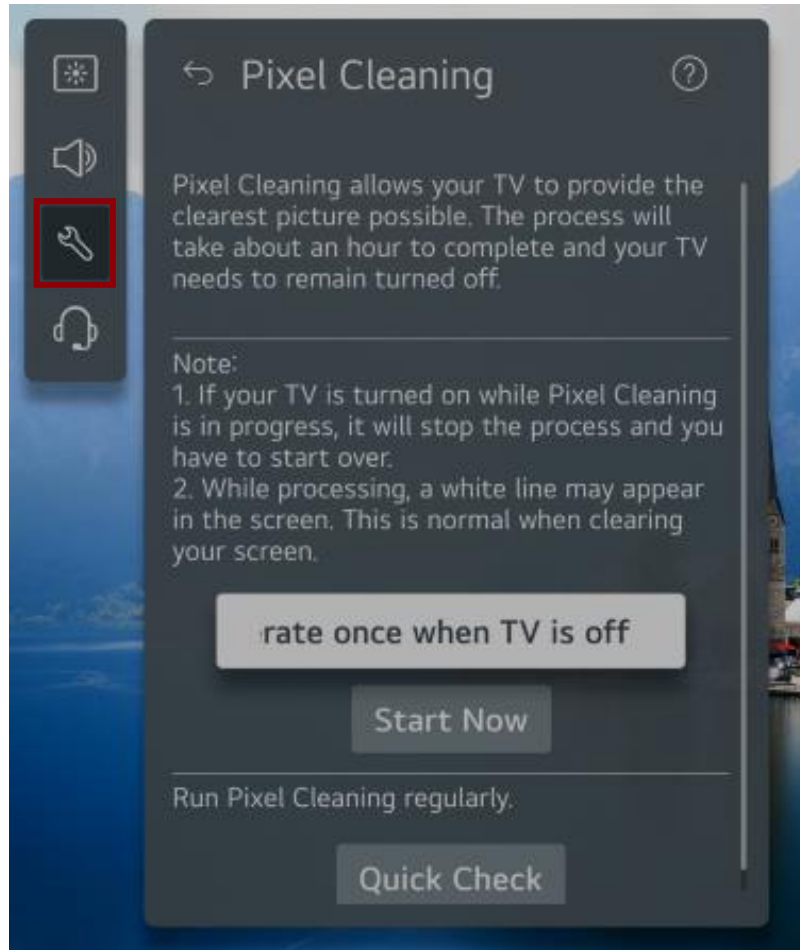
Care Recommendations

You can turn the Care Recommendations ON or OFF.

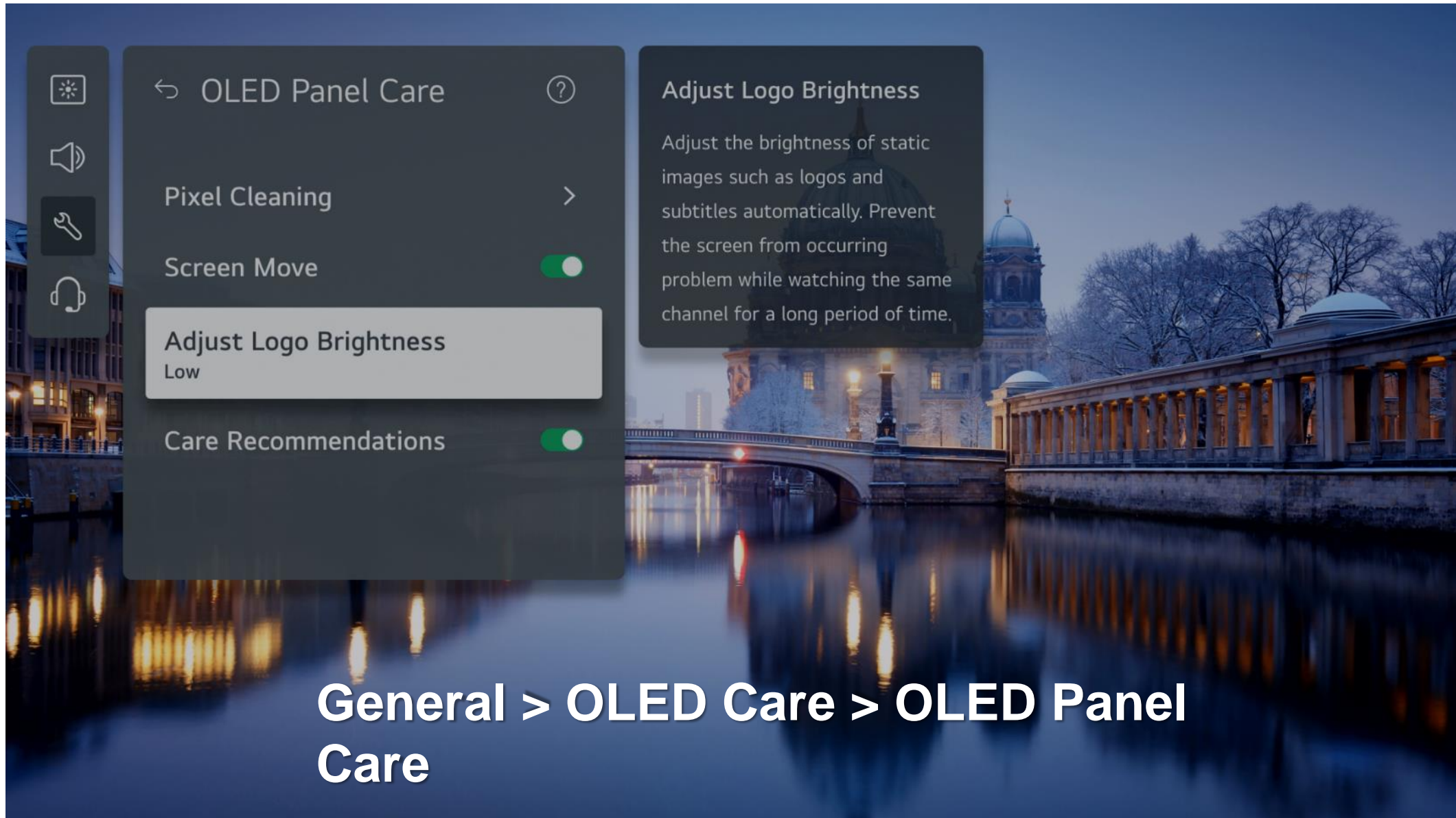


General > OLED Care > OLED Panel Care

Troubleshooting: OLED TV Pixel Cleaning

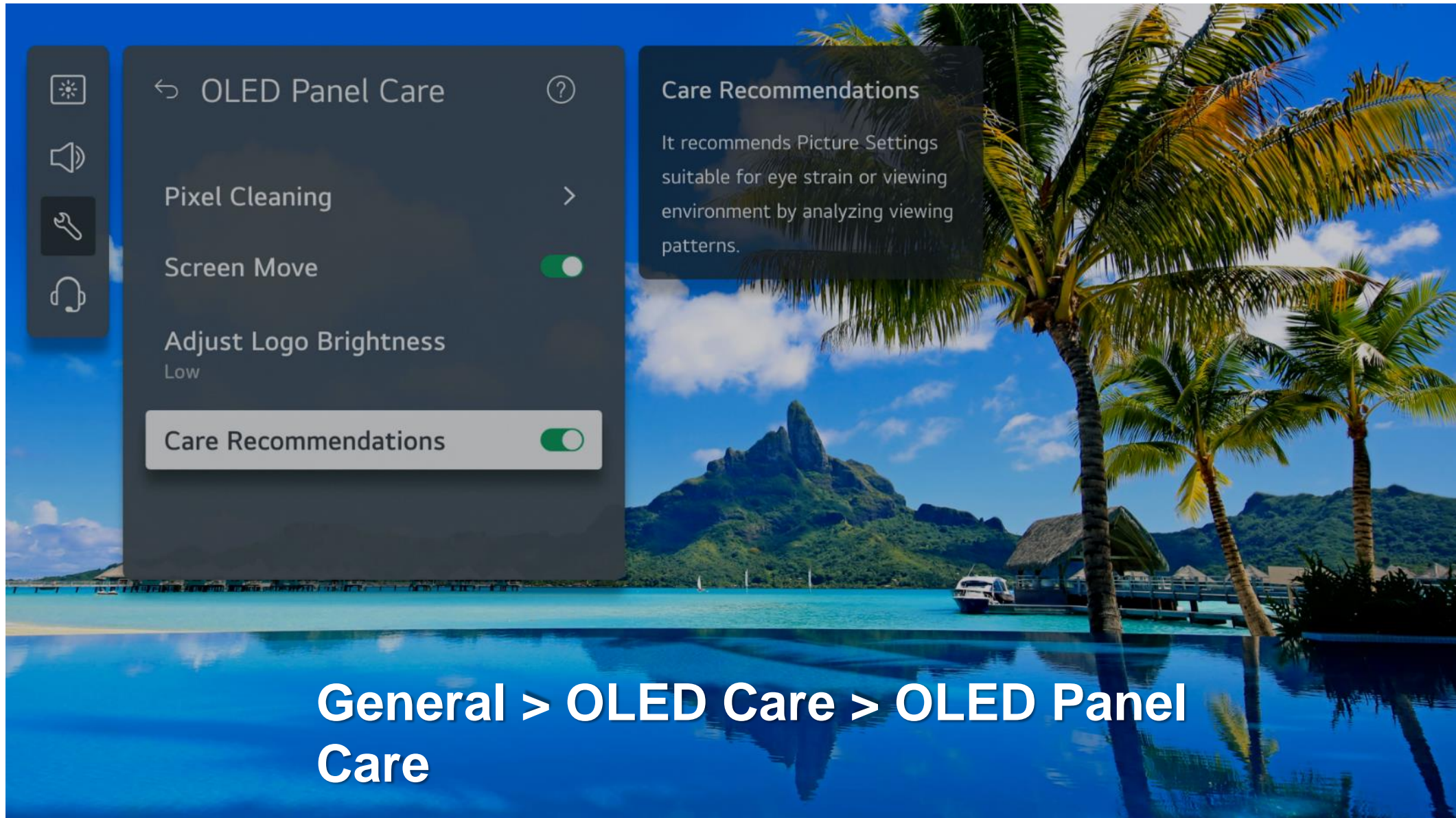


Troubleshooting: Adjust Logo Brightness



General > OLED Care > OLED Panel Care

Troubleshooting: Care Recommendations



General > OLED Care > OLED Panel Care

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

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

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



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

Optimization Settings

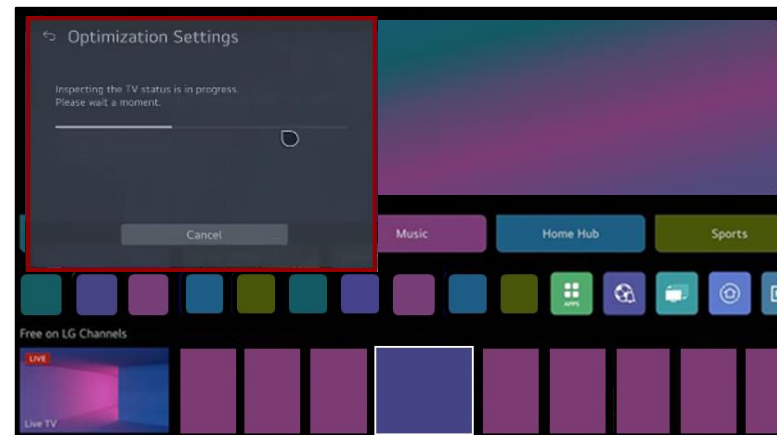
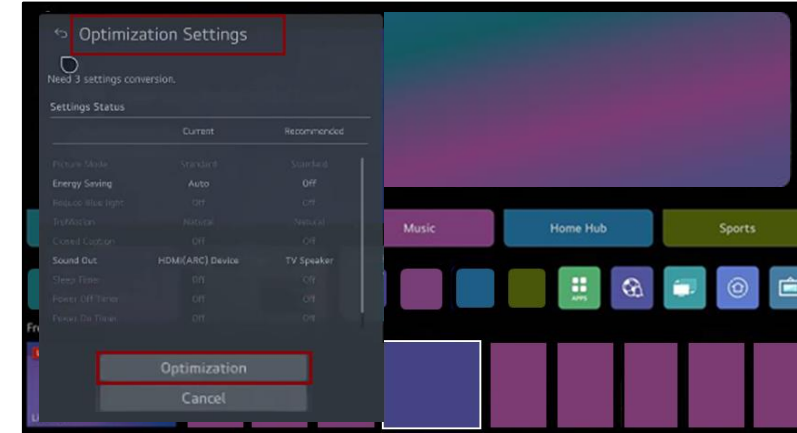
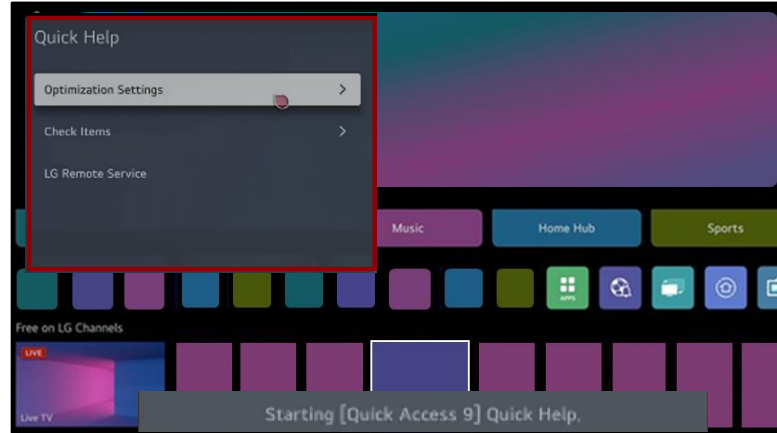
You can automatically check the overall status of your TV and view and change the recommended setting values.

Quick Help: Optimization Settings

Check the *overall status* of your TV to view and change the recommended setting values




Long Press
the **9** Button



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**.

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.

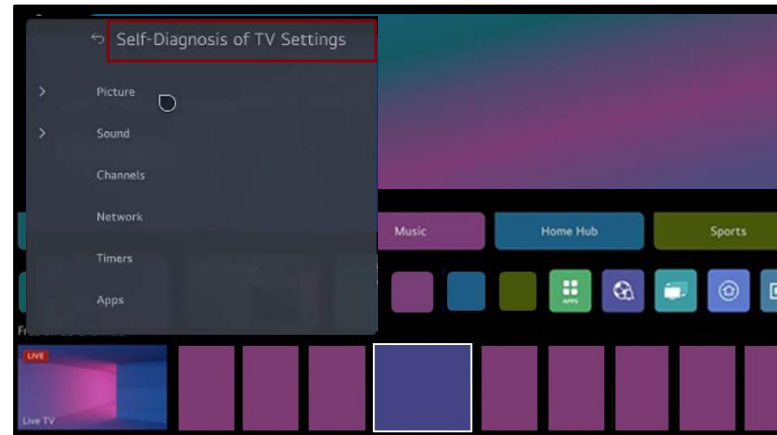
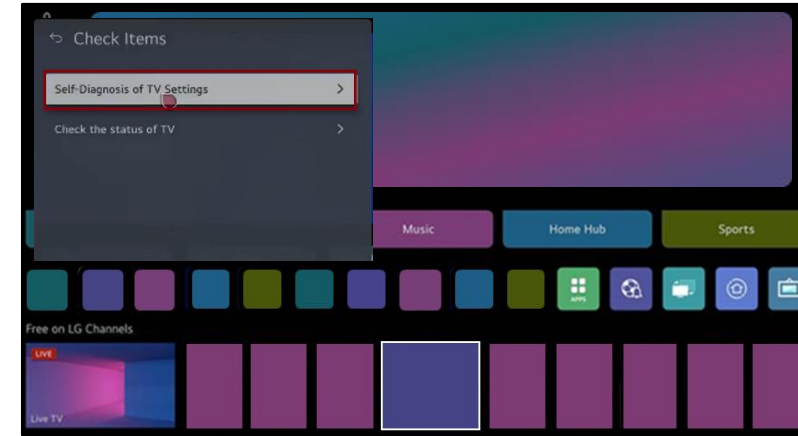
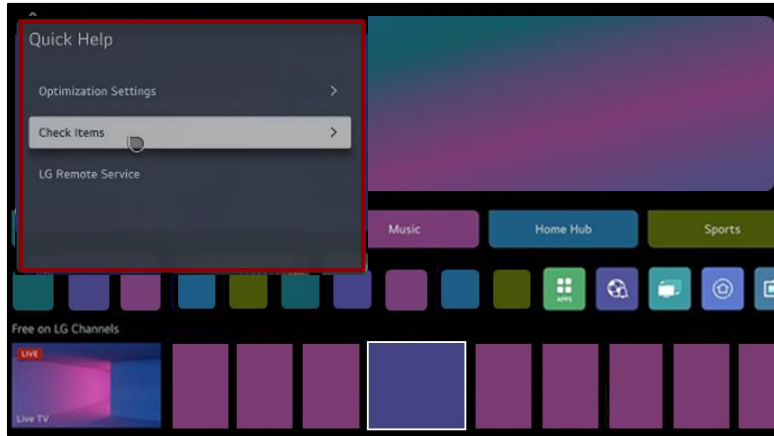
Quick Help: Check Items



Conduct *Self-Diagnosis* of the TV Settings



Long Press
the 9 Button



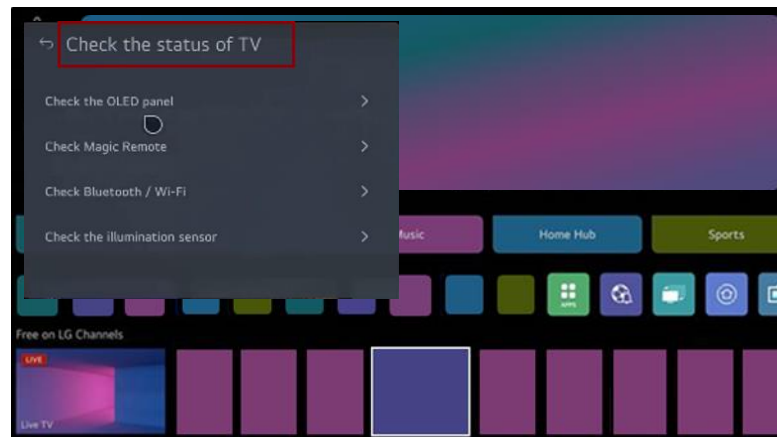
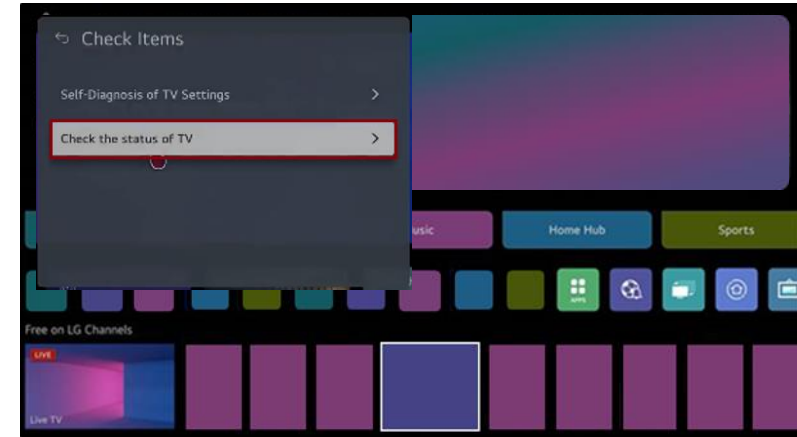
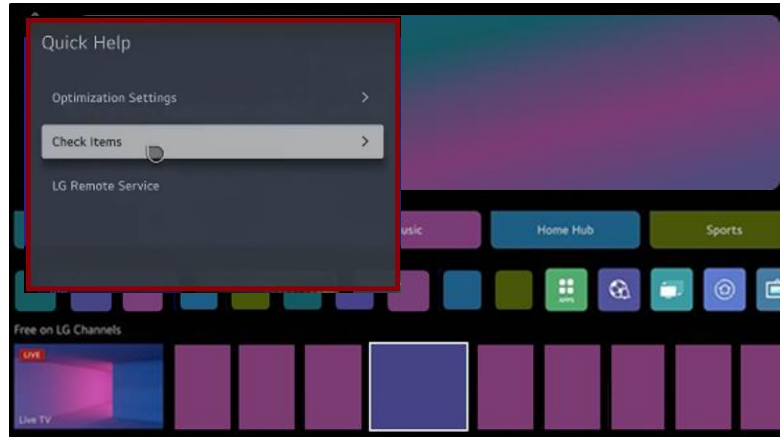
Quick Help: Check Items



Check Status of the TV



Long Press
the **9** Button



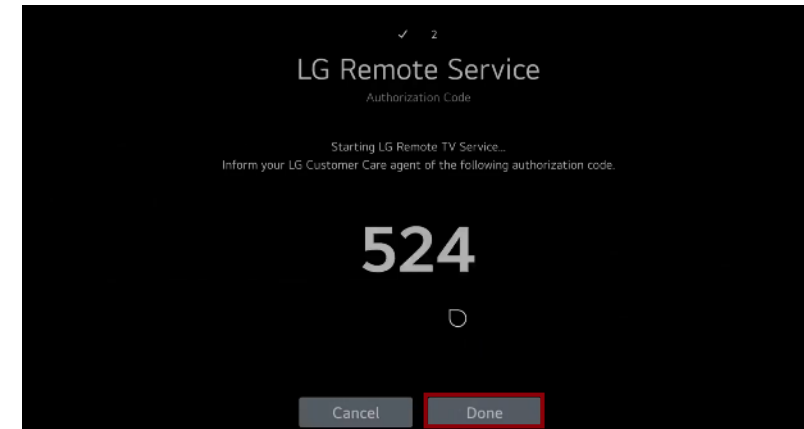
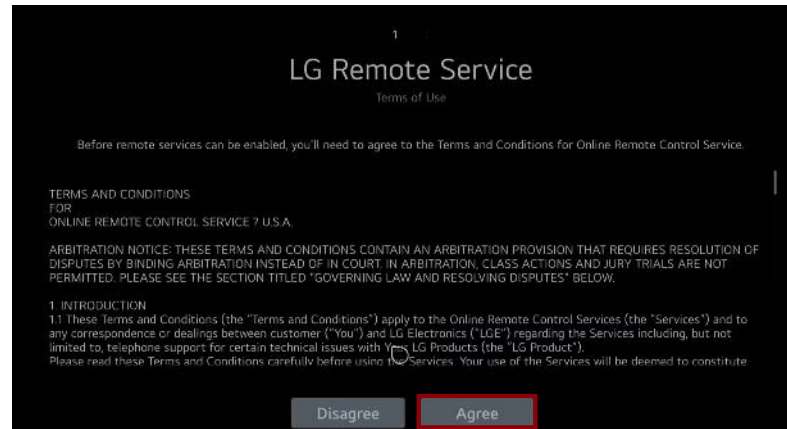
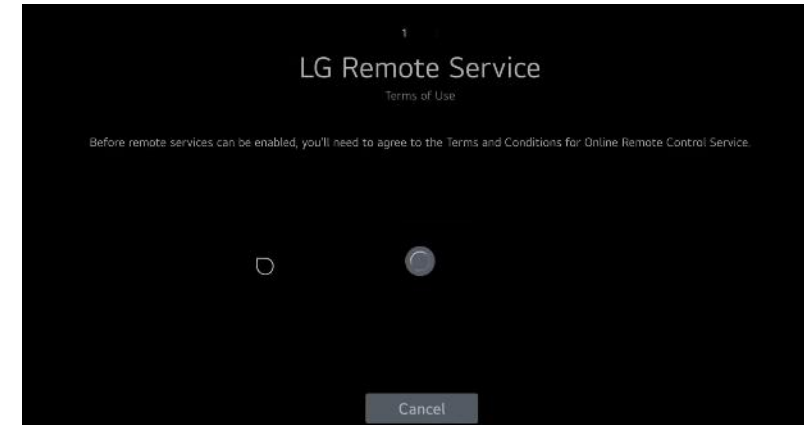
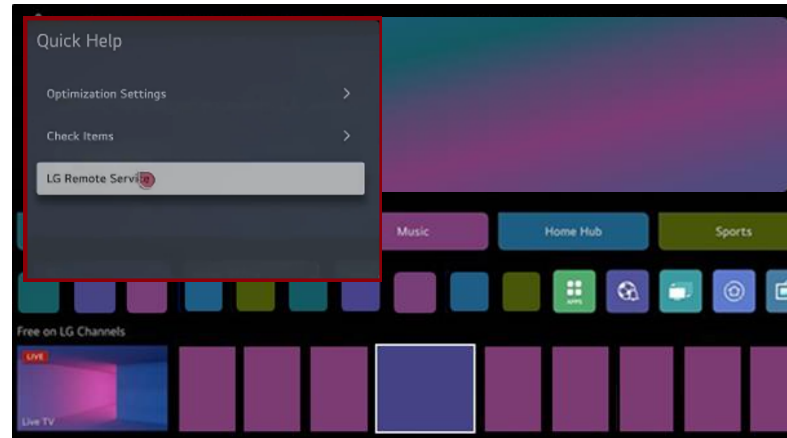
Quick Help: LG Remote Service



Assists with diagnosis of the TV that requires additional help



Long Press
the **9** Button



LG TV Network Setup:

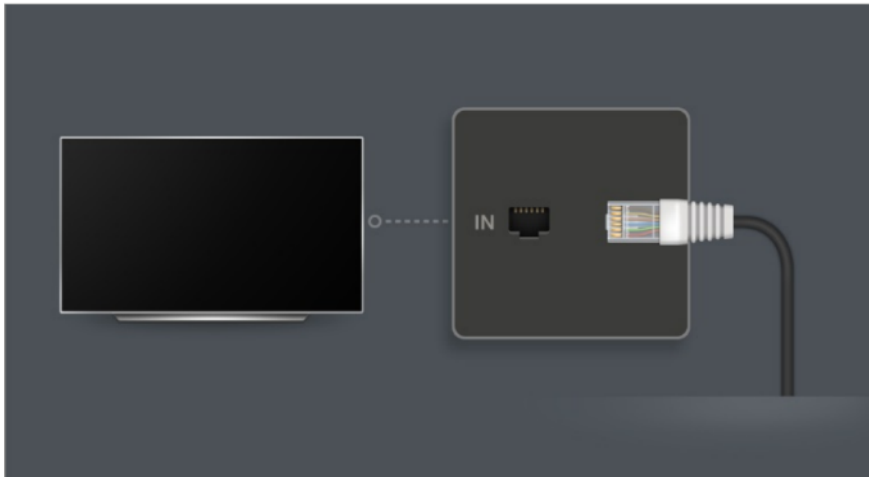
- Wired
- Wireless

Setting a Wired Network

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

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

- Some models may not be supported.



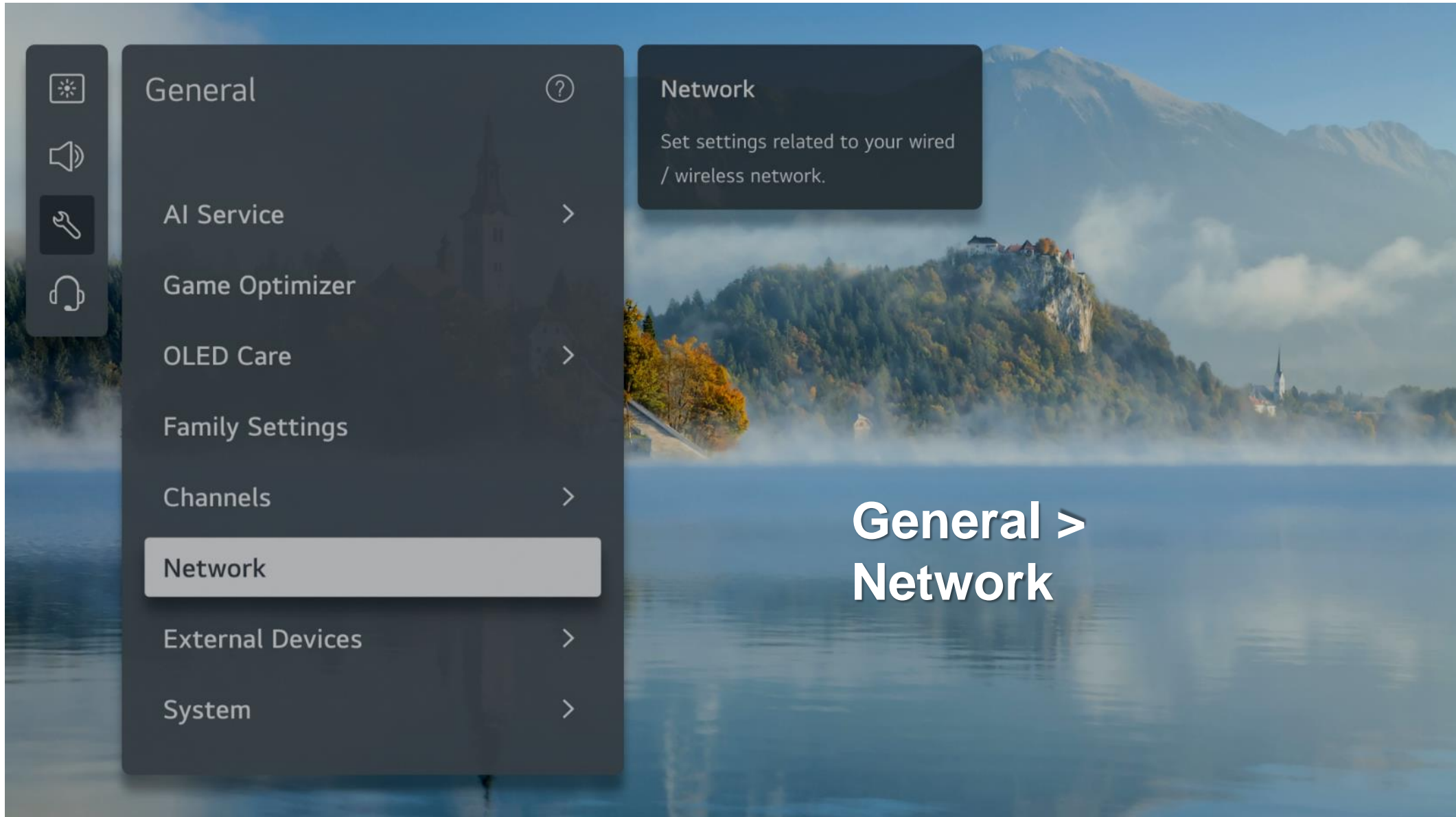
- 01 Connect the LAN port of the TV and the router using a LAN cable. The router should be connected to the Internet beforehand.

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

If the Network Is Not Automatically Connected

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

Setup: Network Connection Wired



Setting a Wireless Network

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

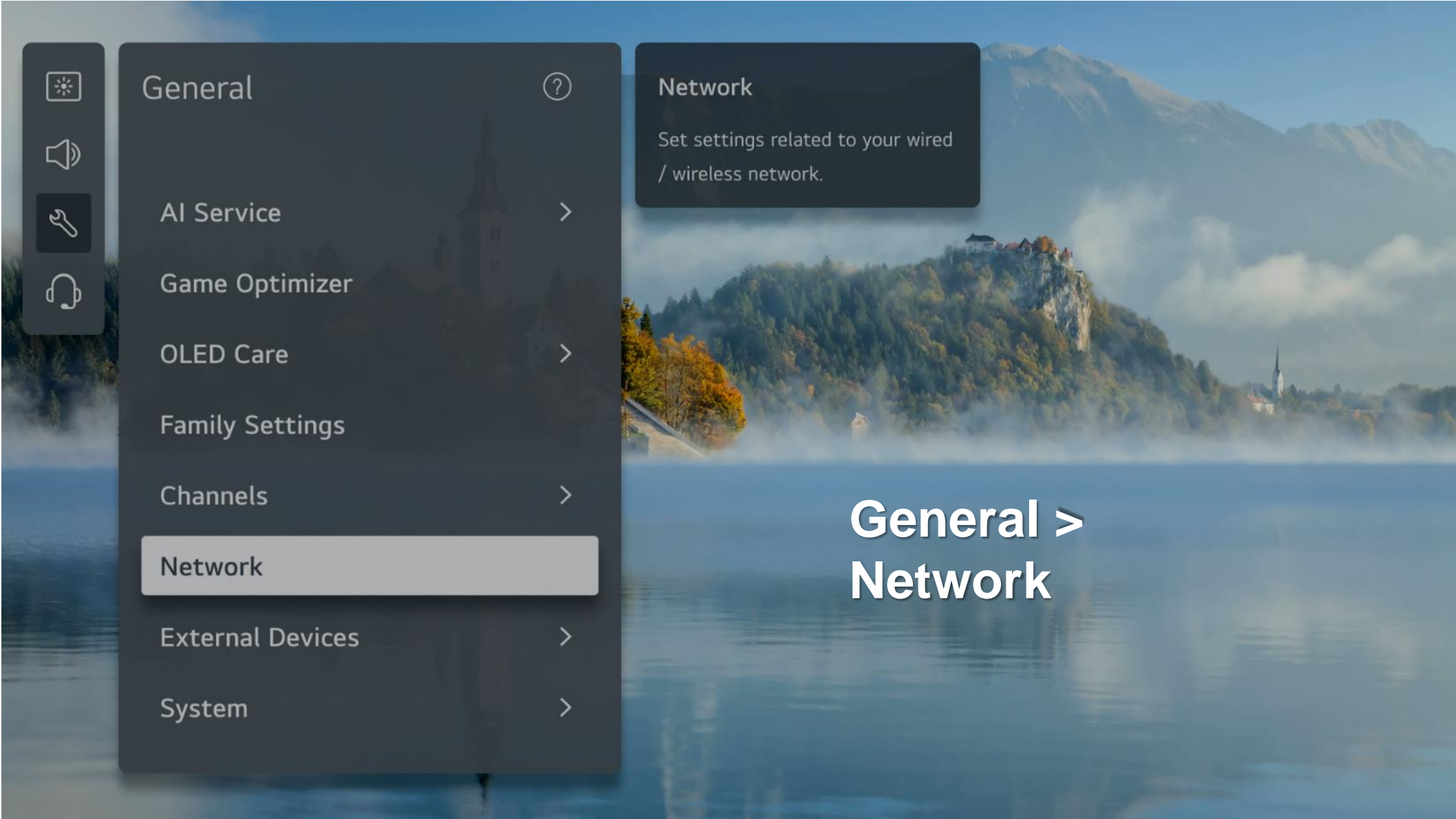
You can check and connect to the available wireless Internet networks; if you have set up the TV for a wireless network. Select the wireless router to connect.

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



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

Setup: Network Connection Wireless



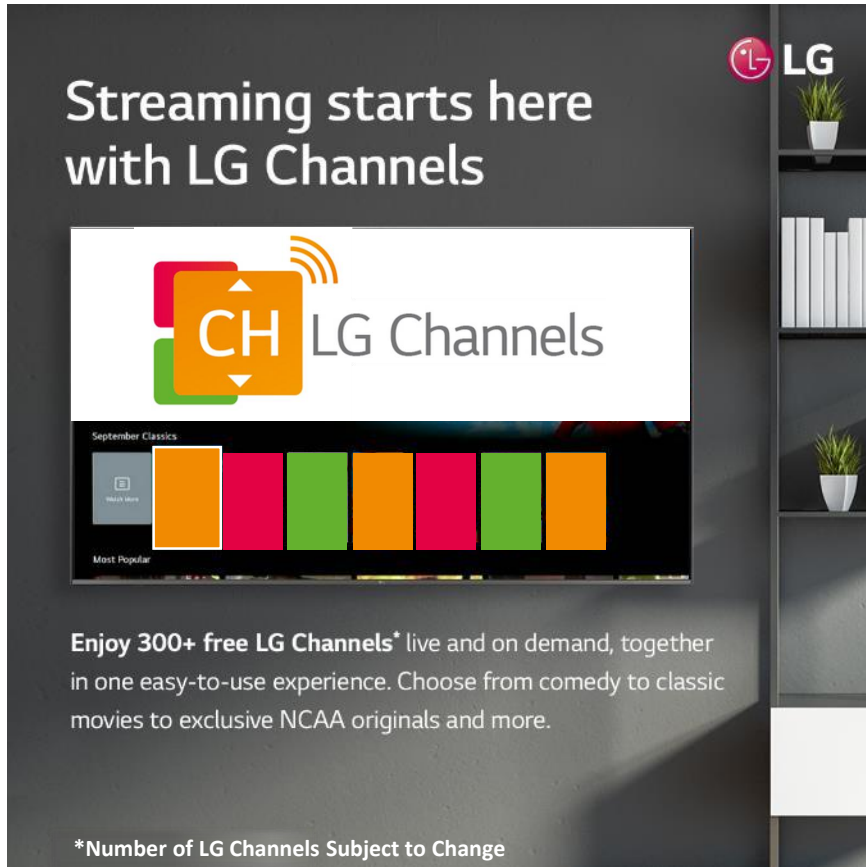
LG TV Apps: LG Channels

- LG Channels on webOS 23 TV

Everyone Loves FREE!



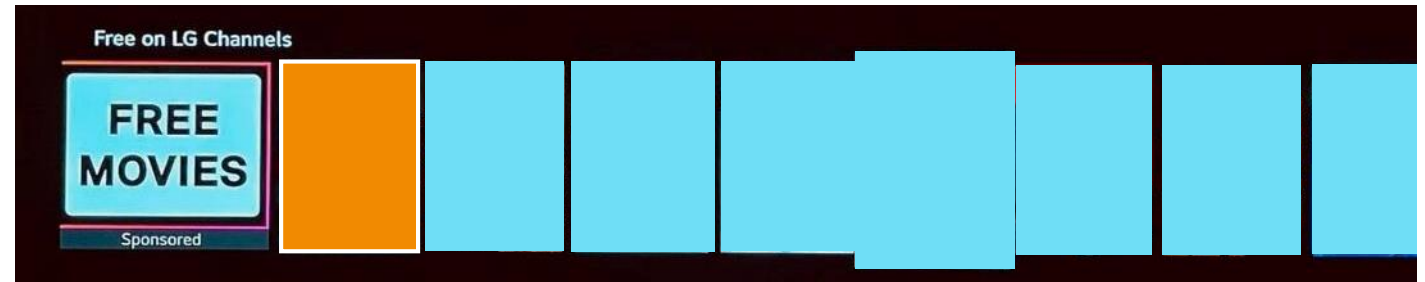
LG Channels continues to expand live and on-demand movies, TV shows and more all for FREE!



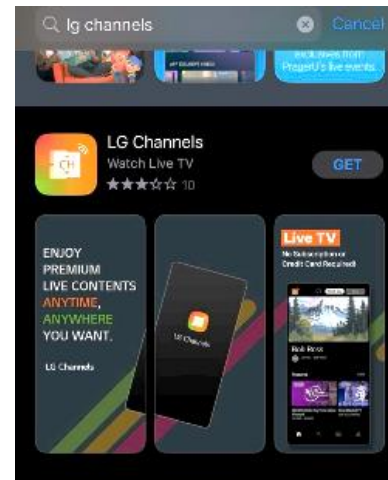
Accessible via:

- LG WebOS TVs
- Via App on iOS and Android
- LGChannels.com

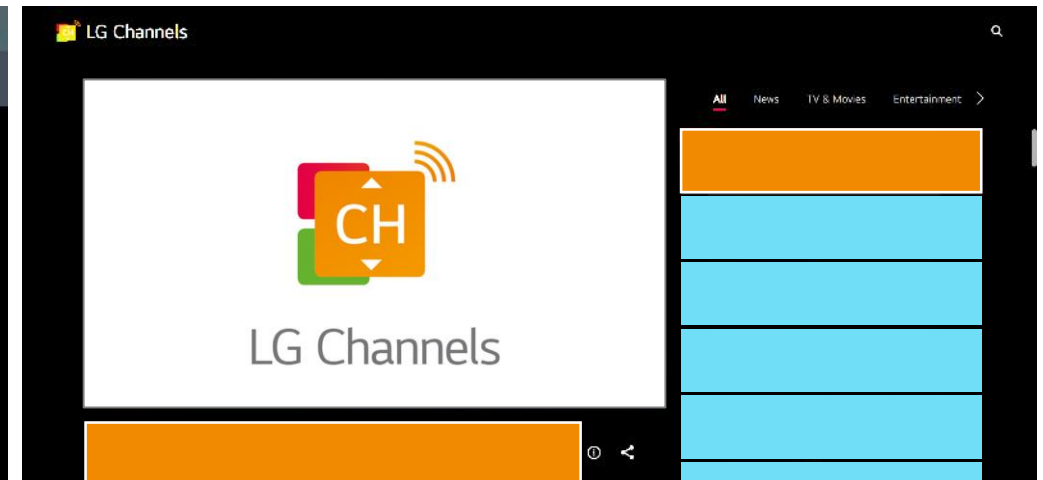
LG Channels* Row on LG WebOS23 TV



Apple App Store



LGChannels.com



OLED G3-Series

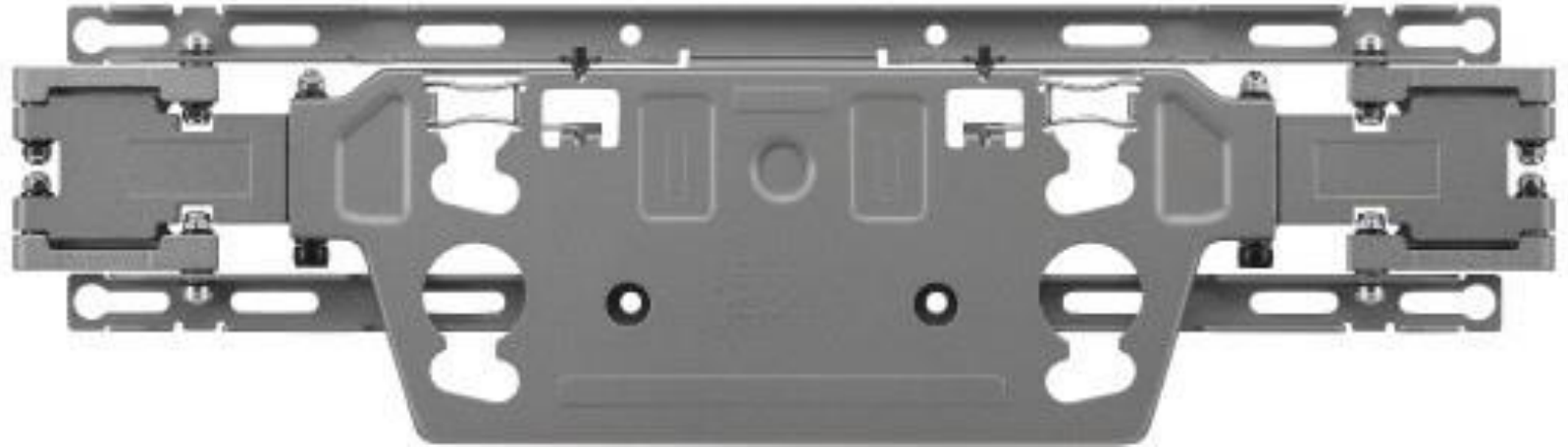
- Wall Mount Bracket
- Optional TV Stand



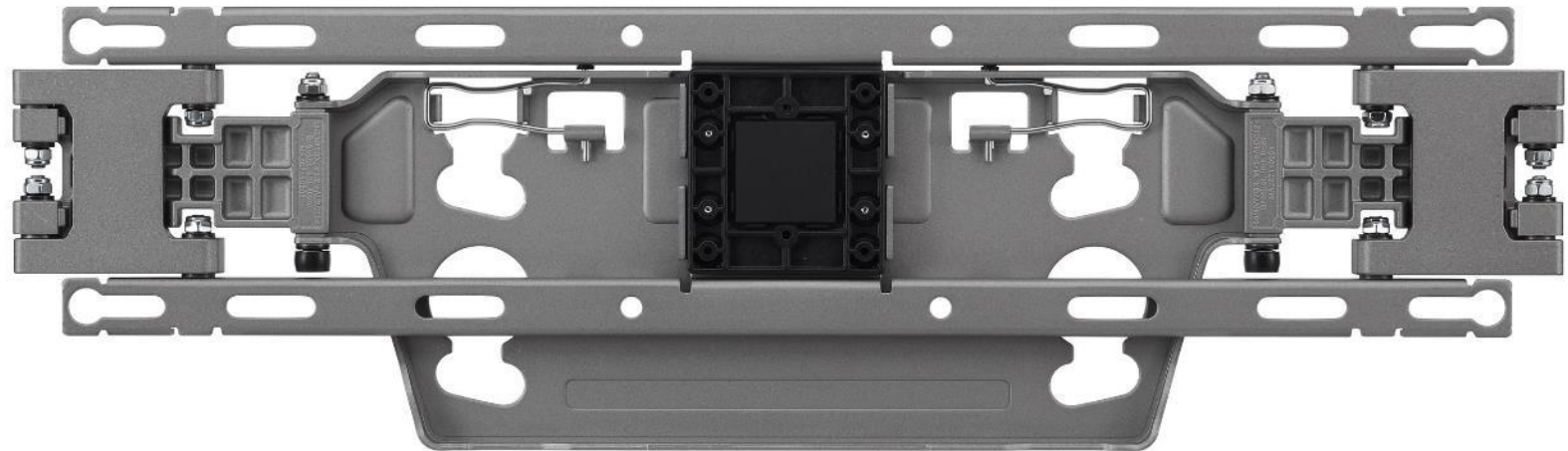
OLED G3 & G2 Includes the Wall Mount Bracket



***Compatible with the
following 2023 TV's:
83/77/65/55 OLED G3
Series***



***Compatible with the
following 2022 TV's:
83/77/65/55 OLED G2
Series***



Product Dimensions:
(WxHxD) 17.80" x 5.08" x 0.51"

OLED G3 & G2 Optional TV Stand



***Tabletop Stand Compatible
with the following
83/77/65/55 OLED G3 Series***

Optional G3 Table Stand



55" SR-G3WU55
65" SR-G3WU65
77-83" SR-G3WU8377

Optional G2 Table Stand

(Compatible with G3)

55" SQ-G2ST55.AUS
65" SQ-G2ST65.AUS
77-83" SQ-G2ST8377.AUS
*Stand sold separately

***Floor Stand
Compatible with the
following 97-inch
OLED G2 Series***



Model #: SQ-G2DT97

*Floor Stand sold separately

Life's Good.

2023 Television Guide

ENGLISH

This model has a built-in slim wall mount bracket.

If you want to install a stand, you can purchase it separately through LG TV sales store and LG online brand shop.

- Countries which have LG online brand shop: USA, France, Spain, Sweden, Germany, Netherlands, Austria, Switzerland, Poland, Italy, UK, Hungary, Czech, Russia, India, Egypt, Australia, Taiwan, Vietnam, Panama, Brazil, Chile, Mexico, Peru, Thailand, Colombia, Hong Kong, Kazakhstan, Portugal, Canada, China
<http://www.lg.com>

FRANÇAIS

Ce modèle est équipé d'une fixation murale extrêmement fine.

Si vous souhaitez installer un support TV, vous pouvez l'acheter séparément chez un revendeur agréé LG TV ou sur [lg.com](http://www.lg.com).

- Pays où LG Online Brand Shop est disponible : États-Unis, France, Espagne, Suède, Allemagne, Pays-Bas, Autriche, Suisse, Pologne, Italie, Royaume-Uni, Hongrie, République tchèque, Russie, Inde, Égypte, Australie, Taïwan, Vietnam, Panama, Brésil, Chili, Mexique, Pérou, Thaïlande, Colombie, Hong Kong, Kazakhstan, Portugal, Canada, Chine
<http://www.lg.com>

DEUTSCH

Dieses Modell verfügt über eine eingebaute Wandhalterung.

Wenn Sie einen Ständer installieren möchten, können Sie ihn separat im Fachhandel oder im LG Online Brand Shop erwerben.

- Länder, in denen sich ein LG Online Brand-Shop befindet: USA, Frankreich, Spanien, Schweden, Deutschland, Niederlande, Österreich, Schweiz, Polen, Italien, VK, Ungarn, Tschechien, Russland, Indien, Ägypten, Australien, Taiwan, Vietnam, Panama, Brasilien, Chile, Mexiko, Peru, Thailand, Kolumbien, Hongkong, Kasachstan, Portugal, Kanada, China
<http://www.lg.com>

ESPAÑOL

Este modelo tiene integrado un soporte muy delgado para pared.

Si desea instalar un soporte de pie, puede comprarlo por separado en las tiendas de venta de productos de LG TV o en la tienda online de LG.

- Países que tienen tienda de venta Online de LG: Estados Unidos, Francia, España, Suecia, Alemania, Países Bajos, Austria, Suiza, Polonia, Italia, Reino Unido, Hungría, República Checa, Rusia, India, Egipto, Australia, Taiwán, Vietnam, Panamá, Brasil, Chile, México, Perú, Tailandia, Colombia, Hong Kong, Kazajistán, Portugal, Canadá y China
<http://www.lg.com>

PORTUGUÊS

Este modelo incorpora um suporte fino de montagem de parede.

Se quiser instalar uma base, pode adquiri-la separadamente através de loja de televisores LG e da loja online da marca LG.

- Países que possuem loja online da marca LG: Estados Unidos da América, França, Espanha, Suécia, Alemanha, Países Baixos, Áustria, Suíça, Polónia, Itália, Reino Unido, Hungria, República Checa, Rússia, Índia, Egito, Austrália, Taiwan, Vietnam, Panamá, Brasil, Chile, México, Peru, Tailândia, Colômbia, Hong Kong, Cazaquistão, Portugal, Canadá, China
<http://www.lg.com>

NEDERLANDS

Dit model heeft een ingebouwde slanke muurbevestigingssteun.

Als u een voet wilt installeren, kunt u deze afzonderlijk aanschaffen via de LG TV-winkel en de LG online winkel.

- Landen die een online webshop van LG hebben: VS, Frankrijk, Spanje, Zweden, Duitsland, Nederland, Oostenrijk, Zwitserland, Polen, Italië, VK, Hongarije, Tsjechië, Rusland, India, Egypte, Australië, Taiwan, Vietnam, Panama, Brazilië, Chili, Mexico en Peru, Thailand, Colombia, Hong Kong, Kazachstan, Portugal, Canada, China
<http://www.lg.com>

ΕΛΛΗΝΙΚΑ

Αυτό το μοντέλο διαθέτει ενσωματωμένη λεπτή βάση επιτοίχιας στήριξης.

Αν θέλετε να εγκαταστήσετε επιτραπέζια βάση, μπορείτε να την αγοράσετε ξεχωριστά από ένα κατάστημα τηλεοράσεων LG και από το διαδικτυακό κατάστημα LG.

- Χώρες που διαθέτουν διαδικτυακό κατάστημα LG: ΗΠΑ, Γαλλία, Ισπανία, Σουηδία, Γερμανία, Ολλανδία, Αυστρία, Ελλάδα, Πολωνία, Ιταλία, Ηνωμένο Βασίλειο, Ουγγαρία, Τσεχία, Ρωσία, Ινδία, Αίγυπτος, Αυστραλία, Ταϊβάν, Βιετνάμ, Παναμάς, Βραζιλία, Χιλή, Μεξικό, Περού, Ταϊλάνδη, Κολομβία, Χονγκ Κονγκ, Καζακστάν, Πορτογαλία, Καναδάς, Κίνα
<http://www.lg.com>

SUOMI

Tässä mallissa on valmiina kapea seinäkiinnike.

Jos haluat asentaa jalustan, voit ostaa sen erikseen LG TV:tä myyvistä liikkeistä tai LG-verkkokaupasta.

- Maat, joissa on LG-verkkokauppa: Yhdysvallat, Ranska, Espanja, Ruotsi, Saksa, Alankomaat, Itävalta, Sveitsi, Puola, Italia, Iso-Britannia, Unkari, Tšekki, Venäjä, Intia, Egypti, Australia, Taiwan, Vietnam, Panama, Brasilia, Chile, Meksiko, Peru, Thaimaa, Kolumbia, Hongkong, Kazakstan, Portugali, Kanada, Kiina
<http://www.lg.com>

MAGYAR

Ez a modell beépített vékony falí rögzítőkonzollal rendelkezik.

Ha szeretné felszerelni az állványt, akkor külön vásárolhatja meg az LG TV értékesítési üzletén és az LG online márkauzletén keresztül.

- Országok, ahol LG online márkauzlete elérhető: Egyesült Államok, Franciaország, Spanyolország, Svédország, Németország, Hollandia, Ausztria, Svájc, Lengyelország, Olaszország, Egyesült Királyság, Magyarország, Csehország, Oroszország, India, Egyiptom, Ausztrália, Tajvan, Vietnám, Panama, Brazília, Chile, Mexikó, Peru, Thaiföld, Kolumbia, Hongkong, Kazahsztán, Portugália, Kanada, Kína
<http://www.lg.com>

POLSKI

Model ten posiada w komplecie dopasowany do telewizora uchwyt do zamontowania na ścianie.

Jeśli chcesz zainstalować produkt na stojaku, można go zakupić osobno w dobrych sklepach sprzedających telewizory LG i sklepie internetowym LG.

- Kraje oferujące dostęp do sklepu internetowego LG: Stany Zjednoczone, Francja, Hiszpania, Szwecja, Niemcy, Holandia, Austria, Szwajcaria, Polska, Włochy, Wielka Brytania, Węgry, Czechy, Rosja, Indie, Egipt, Australia, Tajwan, Wietnam, Panama, Brazylia, Chile, Meksyk, Peru, Tajlandia, Kolumbia, Hongkong, Kazachstan, Portugalia, Kanada, Chiny
<http://www.lg.com>

ČESKY

Tento model má zabudovaný tenký držák pro montáž na stěnu.

Chcete-li nainstalovat stojan, je třeba si jej zakoupit samostatně v prodejně s produkty LG, nebo přes online prodej značky LG.

- Země, které mají online značkový obchod LG: USA, Francie, Španělsko, Švédsko, Německo, Nizozemí, Rakousko, Švýcarsko, Polsko, Itálie, Velká Británie, Maďarsko, Česká republika, Rusko, Indie, Egypt, Austrálie, Taiwan, Vietnam, Panama, Brazílie, Chile, Mexiko, Peru, Thajsko, Kolumbie, Hong Kong, Kazachstán, Portugalsko, Kanada, Čína
<http://www.lg.com>

SLOVENČINA

Tento model má zabudovanú úzku konzolu pre upevnenie na stenu.

Ak chcete stojan nainštalovať, môžete si ho kúpiť samostatne prostredníctvom obchodného miesta LG TV a online značkového obchodu LG.

- Krajiny, ktoré majú online značkový obchod LG: USA, Francúzsko, Španielsko, Švédsko, Nemecko, Holandsko, Rakúsko, Švajčiarsko, Poľsko, Taliansko, Veľká Británia, Maďarsko, Česko, Rusko, India, Egypt, Austrália, Taiwan, Vietnam, Panama, Brazília, Čile, Mexiko, Peru, Thajsko, Kolumbia, Hongkong, Kazachstan, Portugalsko, Kanada, Čína
<http://www.lg.com>

ROMÂNĂ

Acest model este dotat cu o consolă subțire incorporată, pentru montarea pe perete.

Dacă doriți să instalați un suport, îl puteți achiziționa separat prin intermediul magazinului de vânzări LG TV și al magazinului online al mărcii LG.

- Țările care dispun de magazin online al mărcii LG: SUA, Franța, Spania, Suedia, Germania, Țările de Jos, Austria, Elveția, Polonia, Italia, Regatul Unit, Ungaria, Cehia, Rusia, India, Egipt, Australia, Taiwan, Vietnam, Panama, Brazilia, Chile, Mexic, Peru, Thailanda, Columbia, Hong Kong, Kazahstan, Portugalia, Canada, China
<http://www.lg.com>

БЪЛГАРСКИ

Този модел има вградена тънка скоба за монтиране на стена.

Ако искате да монтирате стойка, можете да я закупите отделно от магазин за продажба на телевизори с марка LG и от официалния онлайн магазин на LG.

- Държави, които имат онлайн фирмен магазин на LG: САЩ, Франция, Испания, Швеция, Германия, Нидерландия, Австрия, Швейцария, Полша, Италия, Обединеното кралство, Унгария, Чехия, Русия, Индия, Египет, Австралия, Тайван, Виетнам, Панама, Бразилия, Чили, Мексико, Перу, Тайланд, Колумбия, Хонконг, Казахстан, Португалия, Канада, Китай
<http://www.lg.com>

EESTI

Selle mudelil on sisseehitatud peenike seinakinnitus.

Kui soovite paigaldada telerit telerijalale, saate selle eraldi osta LG teleride müüvast poest või LG kaubamärgi veebipoest.

- Riigid, millel on LG kaubamärgi veebipood: USA, Prantsusmaa, Hispaania, Rootsi, Saksamaa, Madalmaad, Austria, Šveits, Poola, Itaalia, Ühendkuningriik, Ungari, Tšehhi, Venemaa, India, Egiptus, Austraalia, Taiwan, Vietnam, Panama, Brasiilia, Tšiili, Mehhiko, Peruu, Tai, Colombia, Hongkong, Kasahstan, Portugal, Kanada, Hiina
<http://www.lg.com>

LIETUVIŲ K.

Šiame modelyje yra plonas tvirtinimo prie sienos rėmas.

Jei norite sumontuoti stovą, galite jį įsigyti atskirai iš LG TV parduotuvių arba internetinės firminės LG parduotuvių.

- Šalys, kuriose veikia internetinės firminės LG parduotuvės: JAV, Prancūzija, Ispanija, Švedija, Vokietija, Nyderlandai, Austrija, Šveicarija, Lenkija, Italija, JK, Vengrija, Čekijos Respublika, Rusija, Indija, Egiptas, Australija, Taivanas, Vietnamas, Panama, Brazilija, Čilė, Meksika, Peru, Tailandas, Kolumbija, Honkongas, Kazachstanas, Portugalija, Kanada, Kinijoje
<http://www.lg.com>



* M B M 6 7 4 4 6 2 9 1 2 3 0 1 R E V 0 2 *

Printed in Mexico

OLED83G



RECESSED BOX INSTALLATION GUIDE

OLED TV

----- Dotted Line : Installation guide line
——— Solid Line : TV outer line after the installation

OLED83G

OLED77G

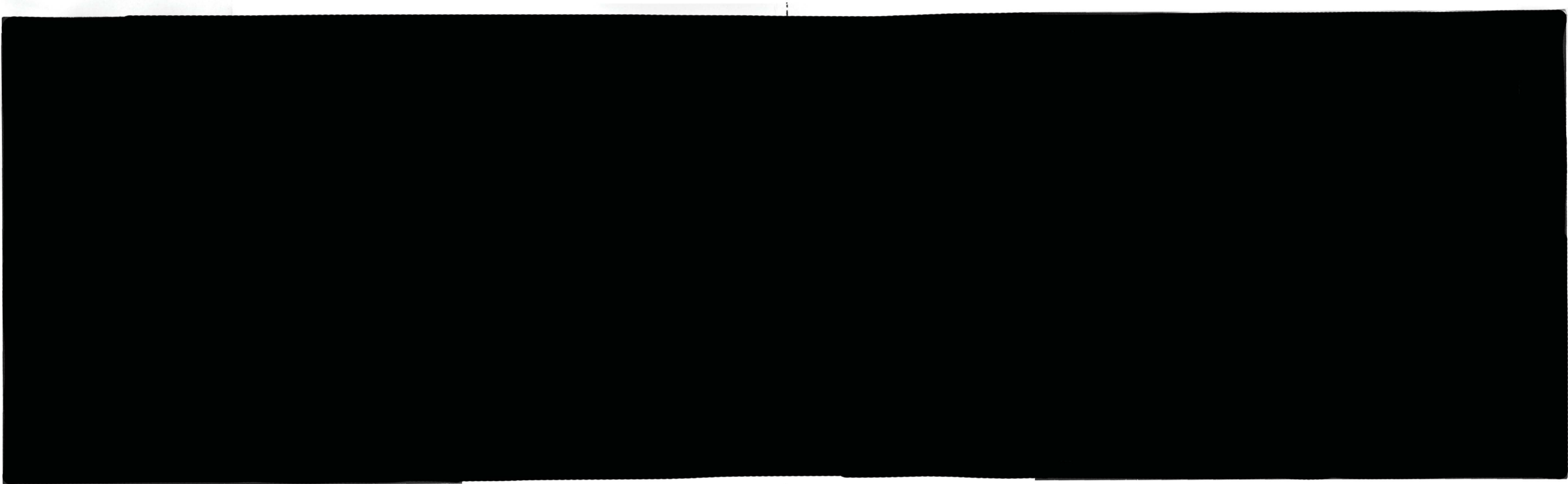
OLED77G

OLED65G

OLED65G

OLED55G

OLED55G



OLED55G TV CENTER ☐

OLED65G TV CENTER ☐

OLED77/83G TV CENTER ☐



Using Magic Remote Control



* M F L 7 1 9 4 5 2 0 2 2 3 0 1 R E V 0 1 *

Printed in Mexico
Imprimé au Mexique

Power Turns the TV on or off.



GUIDE Accesses the [Guide].

— **(Dash)** Inserts a — between numbers such as 2-1 and 2-2.

LIST**

QUICK ACCESS

Accesses the saved channel list.

Accesses the [Edit Quick Access].

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



Volume buttons Adjusts the volume level.



Home Accesses the Home menu.



Home Launches the last used apps.



Wheel (OK) Press the center of button to select a menu. You can change channels by using button.



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



Up/Down/Left/Right Press the up, down, left or right button to scroll the menu. If you press buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.



Back Returns to the previous level.



Back Accesses the Home menu.

Microphone



Number buttons Enters numbers.

Accesses the [Quick Help].



More actions Displays more remote control functions.

AD/SAP**

SAP (Secondary Audio Program) feature can also be enabled by pressing the button.



Channel buttons Scrolls through the saved channels.



Mute Mutes all sounds.



Mute Accesses the [Accessibility] menu.



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

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



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



Input Changes the input source.



Input Accesses the [Home Hub].



Q. Settings Accesses the Quick Settings.



Q. Settings Displays the All Settings menu.



These access special functions in some menus.



Red button Runs the record function.




Streaming Service buttons Connects to the Video Streaming Service.

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the TV correctly. This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.
(Some buttons and services may not be provided depending upon models or regions.)

How to register the Magic Remote Control

To use the Magic Remote, first pair it with your TV.

- 1 Put batteries into the Magic Remote and turn the TV on.
 - 2 Point the Magic Remote at your TV and press the  **Wheel (OK)** on the remote control.
- * If the TV fails to register the Magic Remote, try again after turning the TV off and back on.

How to deregister the Magic Remote Control

Press the  (**Back**) and  (**Home**) buttons at the same time, for five seconds, to unpair the Magic Remote with your TV.

- * Press and hold the  (**Home**) and  (**Q. Settings**) buttons for more than 5 seconds to disconnect and re-register the Magic Remote at the same time.











- It is recommended that an Access Point (AP) be located more than 0.2 m (0.65 ft) away from the TV. If the AP is installed closer than 0.2 m (0.65 ft), the Magic remote control may not perform as expected due to frequency interference.



Using Always Ready

(Depending upon model)

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

- *  →  → [General] → [Always Ready], setting [Enable the function] to on.
- * Pressing the  button while watching TV switches the screen to [Always Ready] that is turned on, and pressing the  button once more turns the screen to [Always Ready] that is turned off.
- * Press the  (**Home**) button or the  (**Back**) button to watch TV when the screen is in [Always Ready] that is turned on.
- * Press the  **Wheel (OK)** button to display the wallpaper when the screen is in [Always Ready] that is turned off, and press the  button to watch TV.

Note

- Using Always Ready may increase energy consumption.
- For models with motion sensors, such as G3, if you set screen on with the motion sensor, the TV will turn on by recognising the motion.
- For more information about the feature, refer to the  →  → [Support] → [User Guide] → [Troubleshooting] → [Learn More About Always Ready].

Connecting Smart Devices using NFC Tagging

NFC is technology that uses Near Field Communication (13.56 MHz), allowing you to conveniently send and receive information without separate settings. By bringing a smart device near the NFC-enabled remote control, you can install the LG ThinQ app and connect the device to the TV.

- 1 Turn on NFC in the smart device's settings. To use NFC with Android devices, set the NFC option to enable 'read/write tags' in the smart device's settings. The NFC settings may vary depending upon the device.
- 2 Bring the smart device near the  (NFC) on the remote control. The required distance for NFC tagging is about 1 cm (0.39 inches).
- 3 Follow the instructions to install the LG ThinQ app on your smart device.
- 4 Retagging the smart device to the remote control allows you to conveniently access various features on the connected TV through the LG ThinQ app.

Note

- This feature is available for NFC-enabled smart devices only.
- This feature is only available if the remote control has an NFC logo.

Specifications

Specifications (MR23GN, MR23GA)		
	Frequency range	Output Power (Max.)
Bluetooth	2,400 to 2,483.5 MHz	8 dBm
NFC*	13.56 MHz	-

* Only MR23GN



Printed in Mexico

Limited Warranty – USA ONLY
LG OLED TV (G1, G2, G3 and 77Z2, 77Z3 Model)

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG TO RESOLVE DISPUTES BY BINDING ARBITRATION INSTEAD OF IN COURT, UNLESS YOU CHOOSE TO OPT OUT. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED "PROCEDURE FOR RESOLVING DISPUTES" BELOW.

Should your LG OLED TV ("Product") fail due to a defect in materials or workmanship under normal and proper use, during the warranty period set forth below, LG Electronics ("LG") will, at its option, repair or replace the Product. This limited warranty is valid only to the original purchaser of the Product and applies only when purchased lawfully and used within the United States including U.S. Territories.

WARRANTY PERIOD	HOW SERVICE IS HANDLED
PARTS/LABOR: 1 Year from the date of original retail purchase (internal and functional parts only, including OLED Display Panel)	The original sales invoice specifying the Product and date of purchase is required to obtain warranty service. To ensure proper credit and avoid unnecessary charges, you must obtain a RMA (Return Merchandise Authorization) prior to returning any product to LG. In the event a replacement product is received, please use the original carton/packaging from that replacement product in returning the original unit to LG. LG shall bear the cost of all in-bound and out-bound shipping under this limited warranty.
OLED DISPLAY PANEL: Years 2-5 from the date of original retail purchase (You will be charged for labor)	For customer assistance, please contact LG Electronics: Call 1 (800) 243-0000 and select the appropriate option from the menu. Or visit our website at http://www.lg.com/us Or by mail: LG Electronics Customer Service P.O. Box 240007, Huntsville, AL 35813 ATTN: Customer Service

Replacement Products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.

Replacement Products and parts may be new, reconditioned, refurbished, or otherwise factory remanufactured.

Any replaced Product and/or parts will be the property of LG.

Disclaimer:

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THE ABOVE LIMITED WARRANTY PERIOD. UNDER NO CIRCUMSTANCES SHALL LG OR ITS U.S. DISTRIBUTORS/DEALERS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES INCLUDING, WITHOUT LIMITATION, LOST GOODWILL, LOST REVENUES OR PROFITS, WORK STOPPAGE, IMPAIRMENT OF OTHER GOODS, COST OF REMOVAL AND REINSTALLATION OF THE PRODUCT, LOSS OF USE, OR ANY OTHER DAMAGES WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. LG'S TOTAL LIABILITY, IF ANY, SHALL NOT EXCEED THE PURCHASE PRICE PAID BY THE CUSTOMER FOR THE PRODUCT.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

PIXEL FUNCTIONALITY: Your Product's display contains many individual pixels, and typically a small number of pixels do not function normally. Your display has been inspected and is in compliance with LG's specifications, and any pixel non-functionality does not affect the operation or use of your Product's display.

THIS LIMITED WARRANTY DOES NOT COVER:

- Service trips to deliver, pick up, install, educate how to operate, replace fuses, correct wiring, or correct unauthorized repairs and the removal and reinstallation of the Product for repair.
- Damage or loss to programs, data, or removable storage media.
- Damage or failure of the Product caused by installation or repair of antenna systems, cable converters, equipment supplied by a cable provider, or other components in a video system.
- Damage or failure of the Product caused by improper set-up or adjustment on consumer controls.
- Damage or failure of the Product caused by transportation and/or handling, including scratches, dents, chips, and/or other damage to the finish of your Product, unless such damage results from a defect in materials or workmanship and is reported within one (1) week of delivery (Call: 1-800-243-0000).
- Damage or failure of the Product when used in other than normal intended use.
- Damage or failure of Product caused by incorrect electrical current or voltage (including power surge), power failures, interruptions or inadequate electrical service, including incorrect or insufficient AC supply.
- Damage or failure of the Product resulting from improper installation or operation of the Product contrary to the Product owner's manual and/or installation manual.
- Damage or failure of the Product caused by accidents, pests and vermin, lightning, wind, fire, flood, or other acts of nature.
- Damage or failure of the Product caused by abnormal conditions or an environment where the temperature and humidity is not adequately controlled.
- Damage or failure of the Product resulting from misuse, abuse, improper installation/repair/maintenance.
- Damage or failure of the Product caused by the use of accessories, parts, consumable cleaning products, or service not provided or approved by LG.
- Damage or failure of the Product or missing items to any Product sold "As Is", "With all Faults" or similar disclaimer.
- Products with original serial numbers that have been removed, altered, or cannot be readily determined.
- Damage or failure of the Product when used in other than normal and usual, single-family household use (e.g., commercial use, store display mode, offices, etc.).
- Damage or failure of the Product due to unauthorized alteration, incorporation into any other product or system components, modifications to any part of the product, including "rooting" or other modifications to control the behavior of the product or any factory installed operating system.
- Increases in utility cost and additional utility expenses.
- Replacement of any consumable parts, including batteries for the remote control.
- Minor imperfections that do not materially alter or affect functionality.

The cost of repair or replacement under the above excluded circumstances shall be borne by you.

PROCEDURE FOR RESOLVING DISPUTES:

ALL DISPUTES BETWEEN YOU AND LG ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. BINDING ARBITRATION MEANS THAT YOU AND LG ARE EACH WAIVING THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

Definitions. For the purposes of this section, references to "LG" mean LG Electronics U.S.A., Inc., its parents, subsidiaries and affiliates, and each of their officers, directors, employees, agents, beneficiaries, predecessors in interest, successors, assigns and suppliers; references to "dispute" or "claim" shall include any dispute, claim or controversy of any kind whatsoever (whether based in contract, tort, statute, regulation, ordinance, fraud, misrepresentation or any other legal or equitable theory) arising out of or relating in any way to the sale, condition or performance of the product or this Limited Warranty.

Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ 07632, USA. You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number; identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days, either party may proceed to file a claim for arbitration.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after sending written notice to LG, you and LG agree to resolve any claims between us only by binding arbitration on an individual basis, unless you opt out as provided below. Any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim. More specifically, without limitation of the foregoing, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be administered by the American Arbitration Association ("AAA") and will be conducted before a single arbitrator under the AAA's Consumer Arbitration Rules that are in effect at the time the arbitration is initiated (referred to as the "AAA Rules") and under the procedures set forth in this section. The AAA Rules are available online at www.adr.org/consumer. Send a copy of your written demand for arbitration, as well as a copy of this provision, to the AAA in the manner described in the AAA Rules. You must also send a copy of your written demand to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ 07632, USA. If there is a conflict between the AAA Rules and the rules set forth in this section, the rules set forth in this section will govern. This arbitration provision is governed by the Federal Arbitration Act. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the state of your residence shall govern this Limited Warranty and any disputes between us except to the extent that such law is preempted by or inconsistent with applicable federal law.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(b)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely on the basis of (1) documents submitted to the arbitrator, (2) through a telephonic hearing, or (3) by an in-person hearing as established by the AAA Rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the AAA Rules. Any in-person arbitration hearings will be held at a location within the federal judicial district in which you reside unless we both agree to another location or we agree to a telephonic arbitration.

Opt Out. You may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either: (i) sending an e-mail to optout@lge.com, with the subject line: "Arbitration Opt Out" or (ii) calling 800-980-2973. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number; and (d) the serial number (the serial number can be found (i) on the product; or (ii) online by accessing <https://www.lg.com/us/support/repair-service/schedule-repair-continued> and clicking on "Find My Model & Serial Number").

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above.



LG

Life's Good

WARRANTY CARD

www.lgservice.co.kr
www.lg.com

P/NO : MBM36259650(2108-REV12)

Global Warranty

* 보증 기간 : 1년 (유럽 : 2년)

보증 기간 중에 정상적인 사용 중에 기술상의 결함이나 문제가 나타났을 때, 구입처를 방문하세요. 이 보증은 제품을 구매한 그 지역의 구매자에게만 적용됩니다.

* 1 Jahr Garantie (Europa: 2 Jahre)

Falls Material oder Verarbeitung bei normaler Verwendung innerhalb des Garantiezeitraums Mängel aufweisen, wenden Sie sich an den Händler, von dem Sie das Gerät erworben haben. Diese Garantie gilt nur für den ursprünglichen Käufer des Produkts und ist lokal begrenzt.

* Garantie : 1 an (Europe : 2 ans)

En cas de défaut matériel ou de fabrication survenant dans des conditions d'utilisation normales pendant la période de garantie, veuillez contacter le revendeur auquel vous avez acheté l'appareil.

Cette garantie ne s'applique qu'à l'acheteur initial du produit et n'est effective que dans la zone locale.

* 1 año de garantía (Europa: 2 años)

Si se prueba que el producto tiene defectos de material o de mano de obra bajo un uso normal durante el periodo de garantía, póngase en contacto con el vendedor en el que lo adquirió. Esta garantía solamente es válida para el comprador original del producto y efectiva solamente en la zona local.

* 1 年保固 (歐洲: 2 年)

若證實在保固期間正常使用下，材質或製作上所有瑕疵，請洽詢您購買產品的零售商。此保固僅適用於產品原購買人，並且僅在當地有效。

* 1 anno di garanzia (Europa: 2 anni)

Se il prodotto risultasse difettoso nei materiali o nella manifattura nel corso del normale utilizzo durante il periodo di garanzia, contattare il rivenditore presso cui è stato effettuato l'acquisto. La garanzia è valida solo per chi ha effettuato l'acquisto del prodotto e nel paese in cui il prodotto è stato acquistato.

* Garantia de 1 ano (Europa : 2 anos)

Se o produto apresentar defeitos no que respeita a material ou mão-de-obra de acordo com as condições de funcionamento normal durante o período da garantia, contacte o fornecedor onde o adquiriu. Esta garantia apenas é válida para o comprador original do produto e é vigente apenas a nível local.

* Гарантия 1 год (Европа : 2 года)

При обнаружении технического дефекта или проблемы при нормальном использовании устройства в течение гарантийного периода обратитесь к дилеру. Настоящая гарантия действительна только для первичного покупателя и применима только к устройству, используемому в стране, в которой оно было приобретено.

* 1年保証 (ヨーロッパ:2年)

保証期間中に、通常の使用で材質や仕上げに欠陥が見られた場合は、購入した販売店にお問い合わせください。この保証は、製品のご購入者様に対してのみご提供するものであり、購入された地域でのみ有効です。

* ضمان لمدة سنة واحدة (أوروبا : سنتان)

إذا تبين أن في المنتج عيوباً من حيث المواد أو جودة التصنيع في ظل شروط تشغيل عادية خلال مدة الضمان ، فيرجى الاتصال بالبائع الذي اشترى المنتج منه. يعتبر هذا الضمان صالح فقط لمشتري المنتج الأصلي، وهو فعال محلياً فقط.

* 1 yil kafolat (Yevropa: 2 yil)

"Agar material yoki sirti normal foydalanishda, kafolat muddati davomida nosoz bo'lib chiqsa, uni xarid qilgan do'koningizga murojaat qiling." Bu kafolat faqat mahsulotning yakuniy xaridoriga beriladi va faqat mahalliy hududda amal qiladi.

* 1 Year Warranty
(Europe : 2 Years) If material or workmanship proves defective under normal use, during the warranty period, please contact the retailer where you purchased it. This warranty is good only to the original purchaser of the product and effective only in the local area.

AUSTRALIA & NEW ZEALAND Warranty

For warranty service, please keep this warranty certificate and your receipt to validate proof of purchase.

TELEVISION ACCESSORIES MANUFACTURER'S WARRANTY

Subject to the terms below, LG Electronics Australia Pty Ltd (LG) will, **for one (1) year from date of purchase**, authorise a free of charge repair or replacement (at LG's discretion) of your LG television accessory if, in LG's opinion, it needs repair because of a manufacturing or materials defect appearing and notified to LG in accordance with this warranty, within such period.

This LG manufacturer's warranty only applies to service within Australia and New Zealand to units purchased within Australia and New Zealand. This warranty is not transferable and applies to the original purchaser only. No LG employee, product retailer or Authorised Service Centre has authority to vary the terms of this warranty. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

PLACE OF SERVICE

Repairs under the terms of this warranty will be conducted at an LG Authorised Service Centre. Transportation costs to and from the Service Centre are not covered by this Warranty. Service Centres are open during normal business hours, Monday to Friday. LG's Authorised Service Centre may charge an additional fee for service outside these hours.

WHAT THIS WARRANTY DOES NOT COVER

This LG manufacturer's warranty does not cover:

- Maintenance, repair or replacement of parts or consumables due to normal wear and tear.
- Repair of cosmetic or physical damage.
- Accident, neglect, misuse or Act of God.
- Alterations or repairs made by someone other than an LG Authorised Service Centre.
- Unauthorised modifications or other acts, including spills of food or liquid or water (liquid ingress), or external interference which is not a manufacturing or material fault.
- Use of the product beyond its intended purpose or in manner that does not comply with the user instructions.
- Damage or defects caused by use of or in connection with accessories, software and/or services not manufactured, supplied or authorised by LG.

OTHER RIGHTS

The benefits given by this LG manufacturer's warranty are additional to other rights and remedies that you may have under law.

Australian customers: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

HOW TO CLAIM

To make a claim against this manufacturer's warranty, you must contact LG within one (1) year of purchase on:

By telephone	By post (Australia Only):
Australia 1300 LG CARE (1300 54 2273) 24 Hours, 7 Days a Week New Zealand 0800 LG CARE (0800 54 2273) 7 Days, 9am-9pm	Warranty Claims LG Electronics Australia PO Box 212 Horsley Park NSW 2175

When contacting LG for assistance please provide your name and address, model number, serial number, date of purchase, and a complete description of the problem. This information will help LG provide fast assistance.



LG Electronics Australia Pty Ltd (ABN 98 064 531 264)
2 Wonderland Drive, Eastern Creek NSW 2766
Australia

Packing Information (Customs Union)



Русский

Символ «петля Мебиуса» указывает на возможность утилизации упаковки. Символ может быть дополнен обозначением материала упаковки в виде цифрового и/или буквенного обозначения.

Қазақша

Символ қаптаманы жою мүмкіндігін көрсетеді. Символ сандық код және/немесе әріп белгілері түріндегі қаптама материалының белгісімен толықтырылуы мүмкін.



ENGLISH

www.lg.com

Printed in Korea

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LG OLED TV

OWNER'S MANUAL

Safety and Reference

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

OLED55G3PUA
OLED65G3PUA
OLED77G3PUA
OLED83G3PUA

OLED77Z3PUA

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

Model _____

Serial No. _____



* M F L 7 1 9 4 6 3 3 2 2 3 0 1 R E V 0 0 *

Supplier's Declaration of Conformity

Trade Name	LG
Responsible Party	LG Electronics USA, Inc.
Address	111 Sylvan Avenue, North Building, Englewood Cliffs, NJ 07632
E-mail	lg.environmental@lge.com

LG Customer Information Center

For inquiries or comments, visit www.lg.com or call;

1-800-243-0000	USA, Consumer User
1-888-865-3026	USA, Commercial User
1-888-542-2623	CANADA

Register your product Online!

www.lg.com

Important Safety Instruction

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

By using this product, you agree that all disputes between you and LG arising out of or relating in any way to this product (including but not limited to warranty disputes) shall be resolved exclusively through binding arbitration on an individual basis. The terms of the arbitration agreement (including details on the procedure for resolving disputes) is available at www.lg.com/us/arbitration (USA) or www.lg.com/ca_en/arbitration (Canada).

Before reading this manual

- Read this manual thoroughly before operating your TV, and keep it for future reference.
- On the website you can download the manual including installation, using, troubleshooting, specifications, license etc and view its contents on your PC or mobile device.
- **User Guide:** For more information about this TV, read the USER GUIDE embedded in the product. (Depending upon model)
 - To open the USER GUIDE (⊙) → (⊙) → [Support] → [User Guide]

Optional Extras

- Optional extras can be changed or modified for quality improvement without any notification. Contact your dealer for buying these items. These devices work only with certain models. The model name or design may be changed due to the manufacturer's circumstances or policies.
- A cable to connect antennas and external devices must be purchased separately.

✓ Note

- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- The items supplied with your product may vary depending upon the model.
- Image shown may differ from your TV.

Warning! Safety instructions



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the device.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- **Do not place the TV and/or remote control in the following environments:**
 - Keep the product away from direct sunlight.
 - An area with high humidity such as a bathroom.
 - Near any heat source such as stoves and other devices that produce heat.
 - Near kitchen counters or humidifiers where they can easily be exposed to steam or oil.
 - An area exposed to rain or wind.
 - Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
 - Near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
 - Do not install in excessively dusty places.

Otherwise, this may result in fire, electric shock, combustion/explosion, malfunction or product deformation.

• Ventilation

- Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase.
- Do not install the product on a carpet or cushion.
- Do not block or cover the product with cloth or other materials while unit is plugged in.
- Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.
- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device.
- Do not move the TV whilst the Power cord is plugged in.
- Do not use a damaged or loosely fitting power cord.

- Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.
- Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.
- **Disconnecting the Device from the Main Power**
 - The power plug is the disconnecting device. In case of an emergency, the power plug must remain readily accessible.
- Do not let your children climb or cling onto the TV. Otherwise, the TV may fall over, which may cause serious injury.

• Outdoor Antenna Grounding (Can differ by country):

- If an outdoor antenna is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur.

Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANSI/NFPA 70

- Never touch this apparatus or antenna during a lightning storm. You may be electrocuted.
- Make sure the power cord is connected securely to the TV and wall socket if not secured damage to the Plug and socket may occur and in extreme cases a fire may break out.
- Do not insert metallic or inflammable objects into the product. If a foreign object is dropped into the product, unplug the power cord and contact the customer service.
- Do not touch the end of the power cord while it is plugged in. You may be electrocuted.

- **If any of the following occur, unplug the product immediately and contact your local customer service.**

- The product has been damaged.
- If water or another substance enters the product (like an AC adapter, power cord, or TV).
- If you smell smoke or other odors coming from the TV
- When lightning storms or when unused for long periods of time.

Even the TV is turned off by remote control or button, AC power source is connected to the unit if not unplugged in.

- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not attempt to modify this product in any way without written authorization from LG Electronics. Accidental fire or electric shock can occur. Contact your local customer service for service or repair. Unauthorized modification could void the user's authority to operate this product.
- Use only an authorized attachments / accessories approved by LG Electronics. Otherwise, this may result in fire, electric shock, malfunction, or product damage.
- Never disassemble the AC adapter or power cord. This may result in fire or electric shock.
- Handle the adapter carefully to avoid dropping or striking it. An impact could damage the adapter.
- To reduce the risk of fire or electrical shock, do not touch the TV with wet hands. If the power cord prongs are wet or covered with dust, dry the power plug completely or wipe dust off.

- **Batteries**

- Store the accessories (battery, etc.) in a safe location out of the reach of children.
- Do not short circuit, disassemble, or allow the batteries to overheat. Do not dispose of batteries in a fire. Batteries should not be exposed to excessive heat.
- Caution: Risk of fire or explosion if the battery is replaced by an incorrect type.

- **Moving**

- When moving, make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press or put stress on the front panel of the TV. Otherwise, this may result in product damage, fire hazard or injury.

- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
- Do not allow an impact shock, any objects to fall into the product, and do not drop anything onto the screen.
- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it. It may cause damage to screen.

- **Cleaning**

- When cleaning, unplug the power cord and wipe gently with a soft/dry cloth. Do not spray water or other liquids directly on the TV. Do not clean your TV with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol etc., which can damage the product and/or its panel. Otherwise, this may result in electric shock or product damage.

Installation

Lifting and moving the TV

When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.
- Hold the side and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grille area.
- Use at least two people to move a large TV.
- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright; never turn the TV on its side or tilt towards the left or right.
- When handling the TV, be careful not to damage the protruding buttons.



- Avoid touching the screen at all times, as this may result in damage to the screen.
- Do not place the product on the floor with its front facing down without padding. Failure to do so may result in damage to the screen.
- When attaching the stand to the TV set, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

Mounting on the Table

- 1 Lift and tilt the TV into its upright position on a table.
 - Leave a minimum of 10 cm (4 inches) space from the wall for proper ventilation, (Depending upon model).
- 2 Connect the power cord to a wall outlet.



- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- Do not use any unapproved items to ensure the safety and lifespan of the product.
- Any damages or injuries by using unapproved items are not covered by the warranty.
- If you install the TV on a stand, you need to take actions to prevent the product from overturning. Otherwise, the product may fall over, which may cause injury.
- When assembling the stand, ensure that all of the provided screws are attached. If the screws are not fully tightened, the product may tilt or tip over, resulting in damage. Tightening the screws with excessive force may cause them to come off due to abrasion of the screw joint.
- When installing on a cabinet or a shelf using a stand, make sure its width is greater than that of the TV, (Depending upon model).
- If the TV is placed on the stand, its screen may be tilted back slightly. If the stand is not level because an object is placed under the stand or it is not on a flat surface, the product may fall and cause injury or product damage, (Depending upon model).

Securing TV to the Wall

- 1 Insert and tighten the eye-bolts or TV brackets and bolts on the back of the TV.
 - If there are bolts inserted at the eye-bolts position, remove the bolts first.
 - 2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eye-bolts on the rear of the TV.
 - 3 Connect the eye-bolts and wall brackets tightly with a sturdy rope or cable. Make sure to keep the rope parallel to the flat surface.
- Use a platform or cabinet that is strong and large enough to support the TV securely.
 - Brackets, bolts, and ropes are optional. You can obtain additional accessories from your local dealer.

Stand (Optional Extras)

(Depending upon model)

Stand	Model
SR-G3WU55	OLED55G3*
SR-G3WU65	OLED65G3*
SR-G3WU8377	OLED77/83G3*

Mounting to the Wall

An optional wall mount can be used with your LG Television. Consult with your local dealer for a wall mount that supports the VESA standard used by your TV model. Carefully attach the wall mount bracket at the rear of the TV. Install the wall mount bracket on a solid wall perpendicular to the floor. If you are attaching the TV to other building materials, please contact qualified personnel to install the wall mount. Detailed instructions will be included with the wall mount. We recommend that you use an LG brand wall mount. The LG wall mount is easy to adjust or to connect the cables. When you do not use LG's wall mount bracket, use a wall mount bracket where the device is adequately secured to the wall with enough space to allow connectivity to external devices. If you are using a non-adjustable mount, attach the mount to the wall. Attach the cables to the TV first, then attach the TV to the mount.



- Remove the stand before installing the TV on a wall mount by performing the stand attachment in reverse.
- For more information of screws and wall mount bracket, refer to the Separate purchase.
- If you intend to mount the product to a wall, attach VESA standard mounting interface (optional parts) to the back of the product. When you install the set to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.
- When mounting a TV on the wall, make sure not to install the TV by hanging the power and signal cables on the back of the TV.
- Do not install this product on a wall if it could be exposed to oil or oil mist. This may damage the product and cause it to fall.
- When installing the Full Contact Wall Mount, the TV may not be contacted firmly against the wall due to some wall conditions.

Precautions for Safety

(Except for OLW480B, LSW440B)

- Professional installers should read this manual carefully to ensure proper installation.
 - Professional installers should forward this manual to customers after installation and encourage them to read and store it in a convenient place for future reference.
- After reading the installation manual, keep it in a convenient place for future reference.



- Ask a professional installer appointed by the store for installation of the product.
Installation by someone other than a professional installer is extremely dangerous and may result in personal injury.
- Do not install the product in an unstable site that cannot withstand its weight.
If the installation site lacks sufficient rigidity, the product may fall and cause personal injury.
- Contact a professional installer appointed by the store prior to moving or replacing the product after installation.
Installation is a technical task and safety issues may arise if an individual attempts to install or move the product personally.

- Do not hang on the product or subject it to severe impact after installation.
Doing so may cause the product to fall and cause personal injury.
- When installing the product on a wall, do not hang the power line or signal cables from the back of the TV.
This can damage the cords, resulting in a fire, electrical shock or malfunction of the product.
- Be sure to wear work gloves when installing the product.
– Installing with unprotected hands may result in injury.
- Install the product according to the instructions in the installation manual.
Failure to install the product according to the instructions in the installation manual can result in serious personal injury or product damage.
- Be sure to have at least two people when installing the product or adjusting the product's height.
Attempting to perform installation or adjustments personally may result in personal injury or damage to the product.
- Make sure a wall is available prior to proceeding with installation. Make use of the anchors and screws provided with the product.
Use of any unauthorized anchors or screws may not support the product's weight, which poses safety risks.
- When drilling in the wall for installation, be sure to use drill bits and drills of the specified diameter. Follow the instructions for the hole depth.
Drilling and installing the product in ways other than specified in the installation manual may result in an unstable installation and potential safety issues.
- Do not wipe the product with a wet towel or use any heating equipment or humidifier under the place where the product is installed.
Liquid water or vapor may enter the product and excessive heat may cause fire, electric shock, or malfunction.
- Do not install the product near a fire sprinkler or detector, a place where vibration or shock may occur or near a high-voltage wire or power source.
- Unplug the product's power cord from the wall outlet before installing.
Installing the product while the power cord is plugged in may result in electric shock or fire.
- Do not install the product with bare hands. Be sure to wear work gloves.
Attempting installation without work gloves may cause personal injury.
- Connect the product with the supplied cable. Use of an unauthorized cable may result in damage by friction with the wall. Make sure to use the supplied cable gender. (This may vary by model.)

Before Installation

(Except for OLW480B, LSW440B)

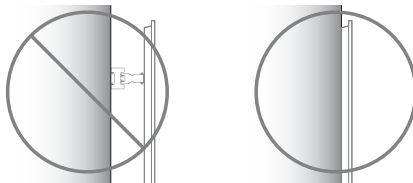
- Do not use the product for any purpose other than installing the TV on a wall.
- Avoid product damage and safety accidents caused by careless installing or use of improper or unauthorized wall mount.
- Follow the instructions in the installation manual for a convenient installation of the wall mount.
- Immediately discontinue installation and contact the service center if you cannot fully understand the installation process.
Use a professional installer if any installation issues remain after the inquiry.
- Installation of this product on a concrete wall or wood stud is recommended. Installation of this product on other surfaces (Dry wall, plywood, bricks, etc.) is not recommended. Improper installation may result in the product falling.
- Install the product only on a vertical wall.
Do not install on a tilted wall that exceeds building standards or on the heavily tilted wall or ceiling.
LG is not responsible for problems caused by improper installation of the product, e.g., heavily tilted walls and ceilings.
- Check the enclosed accessories before installation. We are not responsible for any lost or damaged accessories after the inner packaging is opened.
- When an infant or small child swallows the enclosed accessories, various safety accidents such as choking may occur. Keep the enclosed accessories out of the reach of infants and children.
- When tightening screws, tighten until fully snug.
Avoid using excessive force when tightening the screws. Doing so may damage the wall and product or reduce the rigidity or performance of the product.
- Avoid installing a TV that exceeds the specified tensile load, and do not allow any external force to be applied to the product.
- Avoid accidents by using work tools with care during installation.

Tools for Installation

- “+” shaped screwdriver (manual or electric) / level / drill / Ø 8 mm drill bit for concrete or Ø 4 mm drill bit for steel

Securing TV to the Wall

(Except for OLW480B, LSW440B)



- Please use the TV close to the wall after installation.

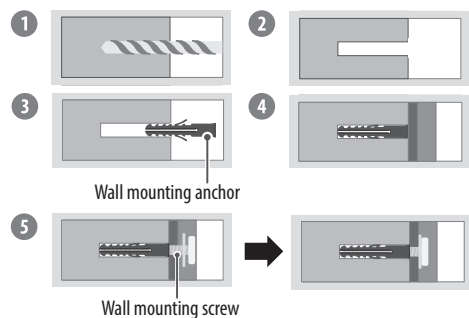
How to fix anchors and screws

(Except for OLW480B, LSW440B)

Please make sure that:

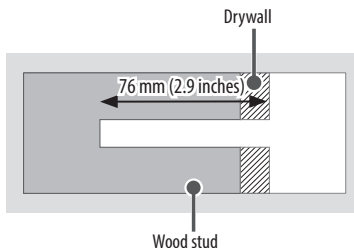
- Check that the material and thickness of the wall and finishing material comply with the installation manual. Before beginning the mounting process, you must be sure the wall is able to support the weight of the TV.
- Should use the enclosed anchors and screws on crack-free concrete walls.
- Never install the product on a plasterboard or wall made of paper or medium-density fiberboard (MDF). When it is necessary to install the product on such wall, anchor screws must be fastened to retaining walls (concrete) or wood Stud inside the finishing material.
- The wall mount should be attached to a stud. This usually will not be a problem, but depending upon individual circumstances, there may be cases when the ability to mount into a stud is not possible. In this case, there are a variety of drywall anchors, such as toggle bolts, which may provide a solution. If using drywall anchors, please be sure the anchors and the wall have the ability to support the weight of your TV. Please note that the supplied anchors may not be the correct ones for your individual situation, so you should check with a local professional.
- Other unspecified walls must be capable of supporting pullout loads of over 70 kgf (154 lbf) (686 N) and shear loads of over 100 kgf (220 lbf) (980 N) per fastener.
- Use an Ø 8 mm drill bit for concrete and a hammer (impact) drill or Ø 4 mm drill bit for wood stud to drill holes.

For installation on concrete wall



- 1 Drill holes in anchor locations with a drill bit of Ø 8 mm to a depth of 80 mm (3.14 inches) to 100 mm (3.93 inches).
- 2 Clean the drilled holes.
- 3 Insert the enclosed anchors for fixing the wall mount into the holes. (Use a hammer when inserting anchors.)
- 4 Push the wall mount support closely toward the wall to match the hole locations.
- 5 Tighten screws for fixing the wall mount to the holes. At this time, tighten the screws to a torque of between 45 kgf/cm (39.06 lbf/in) to 60 kgf/cm (52.07 lbf/in).

For installation on wood stud

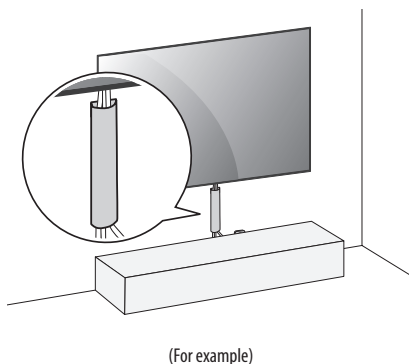


Use the Ø 4 mm drill bit for wood to drill holes with the depth of 76 mm (2.9 Inches). (Clean the drilled hole.)

Without using the wall mounting anchor, fasten the wall mounting screw directly to the wood stud.

After Installation

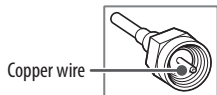
- When connecting additional cables from the sides, we recommend holding the center of the TV horizontally or vertically and pulling the product to make sure there is sufficient distance from the wall before connecting.
- When connecting additional cables from the bottom, we recommend releasing the TV from the wall mount before connecting.



- Use cable management systems to arrange the cables at the bottom of the TV as shown below. Cable managements are not provided with the product, so purchase them separately.
- After installing the product, be sure to use it adhered to the wall.
 - Using the product while it is not adhered to the wall may damage or shake the product.

Antenna/Cable

Connect an antenna, cable, or cable box to watch TV while referring to the following. The illustrations may differ from the actual items and an RF cable is optional.



- Make sure not to bend the copper wire of the RF cable.
- Complete all connections between devices, and then connect the power cord to the power outlet to prevent damage to your TV.
- Use a signal splitter to use 2 TVs or more.
- DTV Audio Supported Codec: MPEG, Dolby Digital
- This TV cannot receive Ultra HD (3840 x 2160 pixels) broadcasts directly because the related standards have not been confirmed (Depending upon country).

Starting TV

Turning on the TV

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



Power On (Press)
Power Off¹⁾ (Press and Hold)
Menu Control (Press²⁾)
Menu Selection (Press and Hold³⁾)

- 1) All running apps will close.
- 2) You can access and adjust the menu by pressing the button when TV is on.
- 3) You can use the function when you access menu control.

✔ Note

- When the TV is turned on for the first time after being shipped from the factory, initialization of the TV may take approximately one minute.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The device must be easily accessed to a location outlet near the access. Some devices are not made by turning on / off button, turning off the device and unplugging the power cord.



Connections

You can connect various external devices to the TV. For more information on external device's connection, refer to the manual provided with each device.

HDMI

- When connecting the HDMI cable, the product and external devices should be turned off and unplugged.
- Supported HDMI Audio format (Depending upon model):
True HD (48 kHz),
Dolby Digital / Dolby Digital Plus (32 kHz / 44.1 kHz / 48 kHz),
PCM (32 kHz / 44.1 kHz / 48 kHz / 96 kHz / 192 kHz)
DTS (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz)
DTS-HD (44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz)

✔ Note

- If the device connected to Input Port also supports HDMI Deep Color, your picture may be clearer. However, if the device doesn't support it, it may not work properly. In that case, change the TV's [HDMI Deep Color] setting to off.
-  →  → [General] → [External Devices] → [HDMI Settings] → [HDMI Deep Color]
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
 - Ultra High Speed HDMI[®]/TM cable (3 m (9.84 feet) or less)

USB

Some USB Hubs may not work. If a USB device connected through a USB Hub is not detected, connect it directly to the USB port on the TV.

✔ Note

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick and 18 mm (0.7 inches) width. (Depending upon model)
- Use an extension cable that supports USB 2.0 if the USB cable or USB flash drive does not fit into your TV's USB port.

IR Blaster

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

- Connect the IR Blaster cable to the TV's IR Blaster port.
- Use universal control settings to control the device.
- Secure the IR Blaster with the 3M tape provided.
- In order to control external devices through "Room to Room Share" and "Hands-free Voice Control", an IR blaster connection is required.

External Devices

Supported external devices are: Blu-ray player, HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

✔ Note

- The external device connections shown may differ slightly from illustrations in a manual.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the [Picture] menu until the picture is clear. Depending upon the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- When connecting to a wired LAN, use a CAT 7 cable with high-speed Internet transmission. (Only when LAN port is provided.)
- The TV may be capable of operating without a set-top-box from a multichannel video programming distributor (MVPD).

Remote RS-232C setup

To obtain the RS-232C external control setup information, please visit www.lg.com. Download and read the manual, (Depending upon model).



- Do not drop the product or let it fall over when connecting external devices. Otherwise, this may result in injury or damage to the product.
- When connecting external devices such as video game consoles, make sure the connecting cables are long enough. Otherwise, the product may fall over, which may cause injury or damage the product.

Specifications

Power requirement

AC 120 V~ 50/60 Hz

Product specifications may be changed without prior notice due to upgrade of product functions.

Estimated yearly energy consumption indicated on the FTC label is measured in accordance with the Test Procedures for Television Sets (USA only).

The actual energy consumption depends on the usage environment (The content watched, TV settings, etc.).

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

(Depending upon country)

Broadcasting Specifications

Television system	ATSC, ATSC3.0 (Only USA), NTSC-M, 64 & 256 QAM
Channel coverage (Band)	VHF 2-13, UHF 14-69, DTV 2-69, CATV 1-135, CADTV 1-135
External antenna impedance	75 Ω

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

Environment Condition

Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Operating Humidity	Less than 80 %	Storage Humidity	Less than 85 %

Conditions for Wall Mount Installation

Tilt Angle	0° - 15°
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* This specification range applies to TV wall mounts when adjusting for proper viewing angle.

Product Information

Wireless module(LGSBWAX12)Specifications

Wireless LAN (IEEE 802.11a/b/g/n/ac/ax)

Frequency range	Output Power (Max.)
2,400 to 2,472 MHz	17 dBm
5,150 to 5,725 MHz	15 dBm
5,725 to 5,850 MHz	15 dBm
5,945 to 7,125 MHz	11 dBm

Bluetooth

Frequency range	Output Power (Max.)
2,400 to 2,483.5 MHz	9 dBm

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

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm (7.8 inches) between the device and the body.

- 1) FCC regulations restrict the operation of this device to indoor use only.
- 2) Operation prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

FCC ID: BEJLGSBWAX12 / IC: 2703H-LGSBWAX12

Open Source Software Notice Information

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents please visit <https://opensource.lge.com>.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

Licenses



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

QUICKSET®
(Magic Remote supported models only)

HEVC Advance™
Covered by patents at patentlist.accessadvance.com

Troubleshooting

In TV / HDMI input, press the  button on the remote control three times to display the model name and serial number on the screen.

Cannot control the TV with the remote control.	<ul style="list-style-type: none"> • Check if anything such as tape has been placed over the receiver. • Check if there is any obstacle between the product and the remote control. • Replace the batteries with new fresh ones.
No image display and no sound is produced.	<ul style="list-style-type: none"> • Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
The TV turns off suddenly.	<ul style="list-style-type: none"> • Check the power control settings. The power supply may be interrupted. • Check if the auto-off function is activated in the settings menu. • The auto-off function may have worked. This product is equipped with an auto-off function that automatically turns off the power if the remote control is not used for 15 minutes without an input signal.
Abnormal Display	<ul style="list-style-type: none"> • If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product. • This panel is an advanced product that contains millions of pixels. You may see tiny black dots and/or brightly colored dots (white, red, blue or green) at a size of 1 ppm on the panel. This does not indicate a malfunction and does not affect the performance and reliability of the product. This phenomenon also occurs in third-party products and is not subject to exchange or refund. • You may find different brightness and color of the panel depending upon your viewing position(left/right/top/down). This phenomenon occurs due to the characteristic of the panel. It is not related with the product performance, and it is not malfunction. • Avoid touching the screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.
Generated Sound	<ul style="list-style-type: none"> • Cracking noise A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required. • Electrical circuit humming/panel buzzing A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending upon the product. This generated sound does not affect the performance and reliability of the product.
The TV does not turn on continuously due to Always Ready mode operation or does not automatically turn on by sensor.	<ul style="list-style-type: none"> • The motion sensor is located on the bottom center of the TV. • The motion sensor is only supported by some models. • If there is a foreign substance on the motion sensor, it may not work properly. • If the environment around the TV is too bright or too dark, the motion sensor may not work properly. • Obstacles in front of the TV may affect the detection function of the motion sensor. • It can operate by recognizing changes in lighting around the TV or movement of objects (pets/robot vacuum cleaners, etc.). • To stop using the Always Ready mode in  →  → [General] → [Always Ready] → [Enable the function], or to use only the General Always Ready mode function, you can select Enable Always Ready mode, turn off the screen, and then stop using the motion sensor in [Always Ready Settings]. The screen-on function with the motion sensor can be set by adjusting the performance of the sensor through the [Always Ready Settings] → [Motion Sensor Sensitivity] setting.



- Make sure to wring any excess water or cleaner from the cloth.
- Do not spray water or cleaner directly onto the TV screen.
- Make sure to spray just enough of water or cleaner onto a dry cloth to wipe the screen.

Precautions for Protecting the OLED TV Screen

Unlike regular LED/LCDs, OLED TVs produce images that emit light for each pixel, achieving a perfect black color and delivering clear images without blurring.

Due to the nature of the organic materials used to achieve high-resolution image quality, OLED displays generally experience image retention on the screen, which can be a persistent phenomenon. This phenomenon is observed in all OLED panels, and although recommended picture modes can minimize image retention, current technology cannot completely prevent this from occurring.



Displaying the same image for a long time or repeatedly displaying the same image can cause image retention on the screen, which is a common phenomenon in OLED panel products due to the nature of the product. This product has a built-in screen protection feature. Avoid displaying images that are likely to cause image retention, and follow the recommendations.

Images that are likely to cause image retention





- Images with black areas on the top and bottom and/or the left and right sides of the screen.
- Images whose aspect ratio is 4:3 or 21:9.
- Images that are fixed for a long time, such as channel number, station logo, game console icon, set-top box menu, etc.
- Other fixed screen images or repeatedly displayed images.



Running [Pixel Cleaning] to Protect the OLED TV Screen

The OLED TV is equipped with a pixel cleaning feature to check the status of the screen by itself and prevent image retention that leaves an image on a screen. This feature automatically calculates the optimal execution time based on the accumulated viewing time and is automatically executed when the TV is turned off. While this feature is running, horizontal lines may appear at the top and bottom of the screen. The pixel cleaning feature works when the product is connected to the power cord and main power.

- To run this function manually, press the  button on the remote control, go to [] → [General] → [OLED Care] → [OLED Panel Care] and press [Pixel Cleaning].

Recommendations for Minimizing Image Retention

When watching the TV for a long time, press the  button on the remote control, go to [] → [Picture] → [Select Mode] and set the mode to [Auto Power Save], go to [Advanced Settings] → [Brightness] and set [OLED Pixel Brightness] to a lower level. In addition, press the  button on the remote control, go to [] → [General] → [OLED Care] → [OLED Panel Care] and set the [Adjust Logo Brightness] value to [High].

When showing images with black bars at the top/bottom/left/right side of the screen, press the  button on the remote control, press [], and go to [Picture] → [Aspect Ratio] → [User Selection] → [Vertical Zoom] or [4-Way Zoom] to remove the black bars.

Turn off the menus for setting up devices such as set-top boxes so that they are not displayed on the screen for a long time.

Note

- When the screen is showing one fixed image for a long time, the screen brightness will be automatically reduced and then restored once the screen content changes. This is a normal function to minimize image retention.

Regulatory

FCC NOTICE

(For USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment and For indoor use only, use outdoors or in other modes not covered by this manual may violate the FCC regulation and violate the user authority to use the product.

FCC Radio Frequency Interference Requirements (for UNII devices)

(For USA)

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device. This device cannot be co-located with any other transmitter.

FCC RF Radiation Exposure Statement

(For USA)

(For having wireless function (WLAN, Bluetooth,...))

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement

(For Canada)

(For having wireless function (WLAN, Bluetooth,...))

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement

(For Canada)

(For having wireless function (WLAN, Bluetooth,...))

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna & your body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

RSS-247 Requirement

(For Canada)

(For product having the wireless function using 5 GHz frequency bands)

- (1) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- (3) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- (4) (For devices operating in the band 5250-5350 MHz having an e.i.r.p. greater than 200 mW) Antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 of RSS-247 shall be clearly indicated.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

NOTE TO CABLE/TV INSTALLER

(For USA and Canada)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

WARNING! (STABILITY HAZARD)

A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.
- ALWAYS use furniture that can safely support the television set.
- ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
- ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
- NEVER place a television set in an unstable location.
- NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.

If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Symbols

	Refers to alternating current (AC).		Refers to stand-by.
	Refers to direct current (DC).		Refers to "ON" (power).
	Refers to class II equipment.		Refers to dangerous voltage.

LG Take-back & Recycling Policy

(For USA)

LG Electronics offers a customized e-waste take-back & recycling service that meets local needs and requirements in the countries where e-waste regulations are in place, and also provides product take-back & recycling service voluntarily in some regions. LG Electronics evaluates products' recyclability at the design step selectively, with the goal of improving recyclability where practicable. Through these activities, LG Electronics seeks to contribute to conserving natural resources and protecting the environment. For more information, please visit our global site at <https://www.lg.com/recycling>



OWNER'S MANUAL

EXTERNAL CONTROL DEVICE SETUP

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

KEY CODES

- This feature is not available for all models.

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH +, PR +	R/C Button	53	List	R/C Button
01	CH -, PR -	R/C Button	5B	Exit	R/C Button
02	Volume +	R/C Button	60	PIP(AD)	R/C Button
03	Volume -	R/C Button	61	Blue	R/C Button
06	> (Arrow Key / Right Key)	R/C Button	63	Yellow	R/C Button
07	< (Arrow Key / Left Key)	R/C Button	71	Green	R/C Button
08	Power	R/C Button	72	Red	R/C Button
09	Mute	R/C Button	79	Ratio / Aspect Ratio	R/C Button
0B	Input	R/C Button	91	AD (Audio Description)	R/C Button
0E	SLEEP	R/C Button	9E	LIVE MENU	R/C Button
0F	TV, TV/RAD	R/C Button	7A	User Guide	R/C Button
10 - 19	* Number Key 0 - 9	R/C Button	7C	Smart / Home	R/C Button
1A	Q.View / Flashback	R/C Button	7E	SIMPLINK	R/C Button
1E	FAV (Favorite Channel)	R/C Button	8E	▶▶ (Forward)	R/C Button
20	Text (Teletext)	R/C Button	8F	◀◀ (Rewind)	R/C Button
21	T. Opt (Teletext Option)	R/C Button	AA	Info	R/C Button
28	Return (BACK)	R/C Button	AB	Program Guide	R/C Button
30	AV (Audio / Video) Mode	R/C Button	B0	▶ (Play)	R/C Button
39	Caption/Subtitle	R/C Button	B1	■ (Stop / File List)	R/C Button
40	∧ (Arrow Key / Cursor Up)	R/C Button	B5	RECENT	R/C Button
41	∨ (Arrow Key / Cursor Down)	R/C Button	BA	⏸ (Freeze / Slow Play / Pause)	R/C Button
42	My Apps	R/C Button	BB	Soccer	R/C Button
43	Menu / Settings	R/C Button	BD	● (REC)	R/C Button
44	OK / Enter	R/C Button	DC	3D	R/C Button
45	Q.Menu	R/C Button	99	AutoConfig	R/C Button
4C	List, -	R/C Button	9F	App / *	R/C Button
4D	PICTURE	R/C Button	9B	TV / PC	R/C Button
52	SOUND	R/C Button			

* Key code 4C (0x4C) is available on ATSC/ISDB models which use major/minor channel.
(For South Korea, Japan, North America, Latin America except Colombia models)

EXTERNAL CONTROL DEVICE SETUP

- Image shown may differ from your TV.

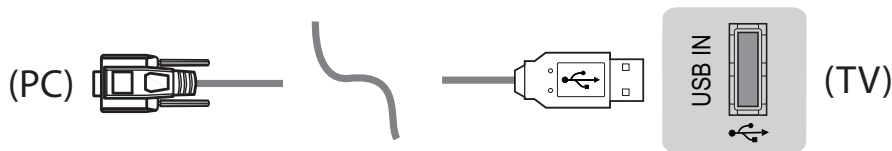
Connect the USB to Serial(RS-232C) converter/RS-232C(Serial) input jack to an external control device (such as a computer or an A/V control system) to control the product's functions externally.

Note: The type of control port on the TV can be different between model series.

- * Please be advised that not all models support this type of connectivity.
- * Cable is not provided.

USB to Serial(RS-232C) converter with USB Cable

USB Type



- LGTV supports PL2303 chip-based (Vendor ID : 0x0557, Product ID : 0x2008) USB to serial(RS-232C) converter which is not made nor provided by LG.
- It can be purchased from computer stores that carry accessories for IT support professionals.

RS-232C(Serial) With RS-232C(Serial) Cable

DE9 (D-Sub 9pin) Type

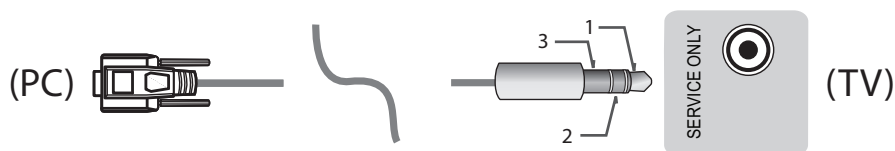
- You need to purchase the RS-232C (DE9, D-Sub 9pin female-to-female type) to RS-232C(Serial) cable required for the connection between the PC and the TV, which is specified in the manual.



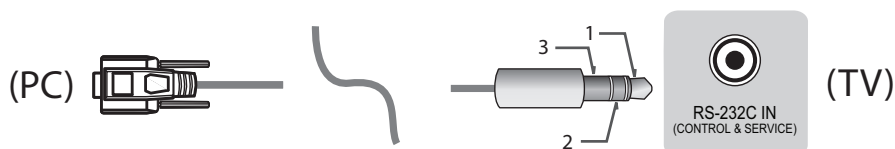
The connection interface may differ from your TV.

Phone jack Type

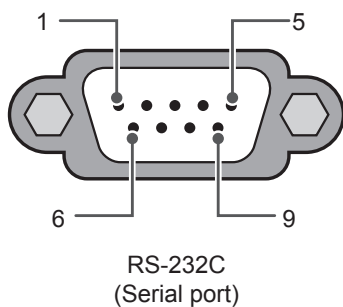
- You need to purchase the phone-jack to RS-232 cable required for the connection between the PC and the TV, which is specified in the manual.
- * For other models, connect to the USB port.
- * The connection interface may differ from your TV.



- or



Customer Computer



RS-232C configurations

3-Wire Configurations(Not standard)

	PC	TV	
RXD	2	2	TXD
TXD	3	1	RXD
GND	5	3	GND

OR

RXD	3	2	TXD
TXD	2	1	RXD
GND	5	3	GND

D-Sub 9

Phone

Set ID

For Set ID number, see "Real Data Mapping" on p.6

- Press **SETTINGS** to access the main menus.
- Press the Navigation buttons to scroll to (***General** → **About this TV or OPTION**) and press **OK**.
- Press the Navigation buttons to scroll to **SET ID** and press **OK**.
- Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.
- When you are finished, press **EXIT**.

* (Depending on model)

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command reference list

(Depending on model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power*	k	a	00 to 01	15. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	(p.7)	16. Color (Colour) Temperature	x	u	00 to 64
03. Screen Mute	k	d	(p.7)	17. ISM Method (Only Plasma TV)	j	p	(p.8)
04. Volume Mute	k	e	00 to 01	18. Equalizer	j	v	(p.9)
05. Volume Control	k	f	00 to 64	19. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	20. Tune Command	m	a	(p.9)
07. Brightness	k	h	00 to 64	21. Channel (Programme) Add/Del(Skip)	m	b	00 to 01
08. Color/ Colour	k	i	00 to 64	22. Key	m	c	Key Codes
09. Tint	k	j	00 to 64	23. Control Backlight, Control Panel Light	m	g	00 to 64
10. Sharpness	k	k	00 to 32	24. Input select (Main)	x	b	(p.11)
11. OSD Select	k	l	00 to 01	25. 3D (Only 3D models)	x	t	(p.11)
12. Remote Control Lock Mode	k	m	00 to 01	26. Extended 3D (Only 3D models)	x	v	(p.12)
13. Treble	k	r	00 to 64	27. Auto Configure	j	u	(p.12)
14. Bass	k	s	00 to 64				

* Note: During playing or recording media, all commands except Power (ka) and Key (mc) are not executed and treated as NG.

With RS232C cable, TV can communicate "ka command" in power-on or power-off status. but with USB-to-Serial converter cable, the command works only if TV is on.

Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

[Command 1] : First command to control the TV. (j, k, m or x)

[Command 2] : Second command to control the TV.

[Set ID] : You can adjust the [Set ID] to choose desired monitor ID number in option menu.
Adjustment range in TV is 1 to 99. If [Set ID] value is selected to '0', every connected set can be controlled.
* [Set ID] is indicated as decimal (1 to 99) on menu and as Hexadecimal (0x00 to 0x63) on transmission/receiving protocol.

[DATA] : To transmit command data (hexadecimal). Transmit 'FF' data to read status of command.

[Cr] : Carriage Return - ASCII code '0x0D'

[] : Space - ASCII code '0x20'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code

Real data mapping (Hexadecimal to Decimal)

* When you enter the [data] in hexadecimal, refer to following conversion table.

* Channel Tune (ma) Command uses two-byte hexadecimal value([data]) to select channel number.

00 : Step 0	32 : Step 50 (Set ID 50)	FE : Step 254
01 : Step 1 (Set ID 1)	33 : Step 51 (Set ID 51)	FF : Step 255
...
0A : Step 10 (Set ID 10)	63 : Step 99 (Set ID 99)	01 00 : Step 256
...
0F : Step 15 (Set ID 15)	C7 : Step 199	27 0E : Step 9998
10 : Step 16 (Set ID 16)	C8 : Step 200	27 0F : Step 9999
...

* Commands may work differently depending on model and signal.

01. Power (Command: k a)

- To control Power *On or Off of the set.

Transmission [k][a][][Set ID][][Data][Cr]

Data 00 : Power Off 01 : *Power On

Ack [a][][Set ID][][OK/NG][Data][x]

- To Show TV is Power On or *Off

Transmission [k][a][][Set ID][][FF][Cr]

Ack [a][][Set ID][][OK][Data][x]

* Similarly, if other functions transmit 'FF' data based on this format, Acknowledgement feedback presents status about each function.

02. Aspect Ratio (Command: k c)

(Main Picture Size)

- To adjust the screen format. (Main picture format)
You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01 : Normal screen (4:3)	07 : 14:9 (Europe, Colombia, Mid-East, Asia except South Korea and Japan)
02 : Wide screen (16:9)	09 : * Just Scan
04 : Zoom	0B : Full Wide (Europe, Colombia, Mid-east except Colombia Only)
05 : Zoom 2 (Latin America)	10 to 1F : Cinema Zoom 1 to 16 Original
06 : Set by Program/	0c : 21:9 (Depending on model)

Ack [c][][Set ID][][OK/NG][Data][x]

- * Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
- * In DTV/HDMI/Component mode (high-definition), Just Scan is available.
- * Full wide mode may work differently based on model and is supported for DTV fully, and ATV, AV partially.

03. Screen Mute (Command: k d)

- To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on)
Video mute off
01 : Screen mute on (Picture off)
10 : Video mute on

Ack [d][][Set ID][][OK/NG][Data][x]

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

04. Volume Mute (Command: k e)

- To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][][Set ID][][Data][Cr]

Data 00 : Volume mute on (Volume off)
01 : Volume mute off (Volume on)

Ack [e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

- To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [f][][Set ID][][OK/NG][Data][x]

06. Contrast (Command: k g)

- To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

Transmission [k][g][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][][Set ID][][OK/NG][Data][x]

07. Brightness (Command: k h)

- To adjust screen brightness.

You can also adjust brightness in the PICTURE menu.

Transmission [k][h][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [h][][Set ID][][OK/NG][Data][x]

08. Color/Colour (Command: k i)

- To adjust the screen Color(Colour).
You can also adjust colour in the PICTURE menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [i][][Set ID][][OK/NG][Data][x]

09. Tint (Command: k j)

- To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

Transmission [k][j][][Set ID][][Data][Cr]

Data Red : 00 to Green : 64

Ack [j][][Set ID][][OK/NG][Data][x]

10. Sharpness (Command: k k)

- To adjust the screen sharpness.
You can also adjust sharpness in the PICTURE menu.

Transmission [k][k][][Set ID][][Data][Cr]

Data Min : 00 to Max : 32

Ack [k][][Set ID][][OK/NG][Data][x]

11. OSD Select (Command: k l)

- To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k][l][][Set ID][][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack [l][][Set ID][][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

- To lock the front panel controls on the monitor and remote control.

Transmission [k][m][][Set ID][][Data][Cr]

Data 00 : Lock off 01 : Lock on

Ack [m][][Set ID][][OK/NG][Data][x]

- * If you are not using the remote control, use this mode.
When main power is off & on (plug-off and plug-in, after 20 - 30 seconds), external control lock is released.

- * In the standby mode (DC off by off timer or 'ka', 'mc' command), and if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. Treble (Command: k r)

- To adjust treble.
You can also adjust in the AUDIO menu.

Transmission [k][r][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [r][][Set ID][][OK/NG][Data][x]

* (Depending on model)

14. Bass (Command: k s)

- To adjust Bass.
You can also adjust in the AUDIO menu.

Transmission [k][s][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [s][][Set ID][][OK/NG][Data][x]

* (Depending on model)

15. Balance (Command: k t)

- To adjust balance.
You can also adjust balance in the AUDIO menu.

Transmission [k][t][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [t][][Set ID][][OK/NG][Data][x]

16. Color(Colour) Temperature (Command: x u)

- To adjust colour temperature. You can also adjust Color(Colour) Temperature in the PICTURE menu.

Transmission [x][u][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [u][][Set ID][][OK/NG][Data][x]

17. ISM Method (Command: j p) (Only Plasma TV)

- To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission [j][p][][Set ID][][Data][Cr]

Data Min : 02: Orbiter

08: Normal

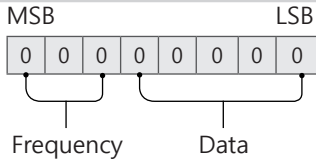
20: Color(Colour) Wash

Ack [p][][Set ID][][OK/NG][Data][x]

18. Equalizer (Command : j v)

- Adjust EQ of the set.

Transmission [j][v][][Set ID][][Data][Cr]



7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1st Band	0	0	0	0	0	0(decimal)
0	0	1	2nd Band	0	0	0	0	1	1(decimal)
0	1	0	3rd Band
0	1	1	4th Band	1	0	0	1	1	19(decimal)
1	0	0	5th Band	1	0	1	0	1	20(decimal)

Acknowledgement [v][][Set ID][][OK/NG][Data][x]

* It depends on model, and can adjust when sound mode is EQ adjustable value.

19. Energy Saving (Command: j q)

- To reduce the power consumption of the TV. You can also adjust Energy Saving in PICTURE menu.

Transmission [j][q][][Set ID][][Data][Cr]

Data

- 00 : Off
- 01 : Minimum
- 02 : Medium
- 03 : Maximum
- 04 : Auto (For LCD TV / LED TV) / Intelligent sensor (For PDP TV)
- 05 : Screen off

* (Depending on model)

Ack [q][][Set ID][][OK/NG][Data][x]

20. Tune Command (Command: m a)

* This command may work differently depending on model and signal.

- For Europe, Mid-East, Colombia, Asia except South Korea and Japan Model

- Select channel to following physical number.

Transmission [m][a][][Set ID][][Data 00][][Data 01][][Data 02][Cr]

* Analog Antenna/Cable

[Data 00][Data 01] Channel Data

Data 00 : High byte channel data

Data 01 : Low byte channel data

- 00 00 ~ 00 C7 (Decimal : 0 ~ 199)

Data 02 : Input Source (Analog)

- 00 : Antenna TV (ATV)

- 80 : Cable TV (CATV)

* Digital Antenna/Cable/Satellite

[Data 00][Data 01]: Channel Data

Data 00 : High Channel data

Data 01 : Low Channel data

- 00 00 ~ 27 0F (Decimal: 0 ~ 9999)

Data 02 : Input Source (Digital)

- 10 : Antenna TV (DTV)

- 20 : Antenna Radio (Radio)

- 40 : Satellite TV (SDTV)

- 50 : Satellite Radio (S-Radio)

- 90 : Cable TV (CADTV)

- a0 : Cable Radio (CA-Radio)

* Tune Command Examples:

1. Tune to the Analog antenna (PAL) Channel 10.

Set ID = All = 00

Data 00 & 01 = Channel Data is 10 = 00 0a

Data 02 = Analog Antenna TV = 00

Result = **ma 00 00 0a 00**

2. Tune to the digital antenna (DVB-T) Channel 01.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1 = 00 01

Data 02 = Digital Antenna TV = 10

Result = **ma 00 00 01 10**

3. Tune to the satellite (DVB-S) Channel 1000.

Set ID = All = 00

Data 00 & 01 = Channel Data is 1000 = 03 E8

Data 02 = Digital Satellite TV = 40

Result = **ma 00 03 E8 40**

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][x][a][][Set ID][][NG][Data 00][x]

- For South Korea, North/Latin America except Colombia Model

- To tune channel to following physical/major/minor number.

Transmission [m][a][][0][][Data 00][][Data 01]

[][Data 02][][Data 03][][Data 04][][Data 05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel from the Major / Minor number, the Physical number is not required when sending a command in Digital.

* Analog Antenna/Cable

Data 00 : Physical Channel Number

- Antenna (ATV) : 02~45 (Decimal: 2 ~ 69)
- Cable (CATV) : 01, 0E~7D (Decimal : 1, 14~125)

[Data 01 ~ 04]: Major/Minor Channel Number

Data 01 & 02: xx (Don't care)

Data 03 & 04: xx (Don't care)

Data 05: Input Source (Analog)

- 00 : Antenna TV (ATV)
- 01 : Cable TV (CATV)

* Digital Antenna/Cable

Data 00 : xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01 : High byte Channel Data

Data 02 : Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor Channel Number

Data 03 : High byte Channel Data

Data 04 : Low byte Channel Data

Data 05 : Input Source (Digital)

- 02 : Antenna TV (DTV) – Use Physical Channel Number
- 06 : Cable TV (CADTV) – Use Physical Channel Number
- 22 : Antenna TV (DTV) – Don't Use Physical Channel Number
- 26 : Cable TV (CADTV) - Don't Use Physical Channel Number
- 46 : Cable TV (CADTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 66 : Cable TV (CADTV) – Use Major Channel Number Only (One Part Channel)
- 0b : Cable DTV Plus – Use Physical Channel Number
- 2b : Cable DTV Plus – Don't Use Physical Channel Number
- 4b : Cable DTV Plus – Use Physical/Major Channel Number Only (One Part Channel)
- 6b : Cable DTV Plus – Use Major Channel Number Only (One Part Channel)

Two bytes are available for each major and minor channel data, but usually the low byte is used alone (high byte is 0).

* Tune Command Examples:

1. Tune to the Analog cable (NTSC) channel 35.

Set ID = All = 00

Data 00 = Channel Data is 35 = 23

Data 01 & 02 = No Major = 00 00

Data 03 & 04 = No Minor = 00 00

Data 05 = Analog Cable TV = 01

Total = **ma 00 23 00 00 00 00 01**

2. Tune to the digital antenna (ATSC) channel 30-3.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Minor is 3 = 00 03

Data 05 = Digital Antenna TV = 22

Total = **ma 00 00 00 1E 00 03 22**

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][Data 03][Data 04][Data 05]

[x][a][][Set ID][][NG][Data 00][x]

• For Japan Model

- To tune channel to following physical/major/minor number.

Transmission [m][a][][0][][Data00][][Data01]

[][Data02][][Data03][][Data04][][Data05][Cr]

* Digital Antenna/Satellite

Data 00: xx (Don't care)

[Data 01][Data 02]: Major Channel Number

Data 01: High byte Channel Data

Data 02: Low byte Channel Data

- 00 01 ~ 27 0F (Decimal: 1 ~ 9999)

[Data 03][Data 04]: Minor/Branch Channel Number
(Don't care in Satellite)

Data 03: High byte Channel Data

Data 04: Low byte Channel Data

Data 05 : Input Source (Digital/Satellite for Japan)

- 02 : Antenna TV (DTV)
- 42 : Antenna TV (DTV) – Use Physical/Major Channel Number Only (One Part Channel)
- 62 : Antenna TV (DTV) – Use Major Channel Number Only (One Part Channel)
- 07 : BS (Broadcasting Satellite)
- 08 : CS1 (Communication Satellite 1)
- 09 : CS2 (Communication Satellite 2)

* Tune Command Examples:

1. Tune to the digital antenna (ISDB-T) channel 17-1.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 17 = 00 11

Data 03 & 04 = Minor/Branch is 1 = 00 01

Data 05 = Digital Antenna TV = 02

Total = **ma 00 00 00 11 00 01 02**

2. Tune to the BS (ISDB-BS) channel 30.

Set ID = All = 00

Data 00 = Don't know Physical = 00

Data 01 & 02 = Major is 30 = 00 1E

Data 03 & 04 = Don't Care = 00 00

Data 05 = Digital BS TV = 07

Total = **ma 00 00 00 1E 00 00 07**

* This feature is varied based on the model.

Ack [a][][Set ID][][OK][Data 00][Data 01]

[Data 02][Data 03][Data 04][Data 05]

[x][a][][Set ID][][NG][Data 00][x]

21. Channel(Programme) Add/Del(Skip)

(Command: m b)

► To skip current channel(programme) for next time.

Transmission [m][b][][Set ID][][Data][Cr]

Data 00 : Del(ATSC,ISDB)/Skip(DVB) 01 : Add

Ack [b][][Set ID][][OK/NG][Data][x]

* Set the saved channel status to del(ATSC, ISDB)/skip(DVB) or add.

22. Key (Command: m c)

► To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data Key code - p.2.

Ack [c][][Set ID][][OK/NG][Data][x]

23. Control Backlight (Command: m g)

• For LCD TV / LED TV

► To control the backlight.

Transmission [m][g][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][][Set ID][][OK/NG][Data][x]

Control Panel Light (Command: m g)

• For Plasma TV

► To control the panel light.

Transmission [m][g][][Set ID][][Data][Cr]

Data Min : 00 to Max : 64

Ack [g][][Set ID][][OK/NG][Data][x]

24. Input select (Command: x b)

(Main Picture Input)

► To select input source for main picture.

Transmission [x][b][][Set ID][][Data][Cr]

Data

00 : DTV 01 : CADTV

02 : Satellite DTV 10 : ATV

ISDB-BS (Japan)

03 : ISDB-CS1 (Japan)

04 : ISDB-CS2 (Japan)

11 : CATV

20 : AV or AV1 21 : AV2

40 : Component1 41 : Component2

60 : RGB

90 : HDMI1 91 : HDMI2

92 : HDMI3 93 : HDMI4

Ack [b][][Set ID][][OK/NG][Data][x]

* This function depends on model and signal.

25. 3D(Command: x t) (only 3D models)

(Depending on model)

► To change 3D mode for TV.

Transmission [x][t][][Set ID][][Data 00][][Data 01]

[][Data 02][][Data 03][Cr]

* (Depending on model)

Data Structure

[Data 00] 00 : 3D On

01 : 3D Off

02 : 3D to 2D

03 : 2D to 3D

[Data 01] 00 : Top and Bottom

01 : Side by Side

02 : Check Board

03 : Frame Sequential

04 : Column interleaving

05 : Row interleaving

[Data 02] 00 : Right to Left

01 : Left to Right

[Data 03] 3D Effect(3D Depth): Min : 00 - Max : 14
(*transmit by Hexadecimal code)

- * [Data 02], [Data 03] functions depend on model and signal.
- * If [Data 00] is 00 (3D On), [Data 03] has no meaning.
- * If [Data 00] is 01 (3D off) or 02 (3D to 2D), [Data 01], [Data 02] and [Data 03] have no meaning.
- * If [Data 00] is 03 (2D to 3D), [Data 01] and [Data 02] have no meaning.
- * If [Data 00] is 00 (3D On) or 03 (2D to 3D), [Data 03] works when 3D Mode (Genre) is manual only.
- * All 3D pattern options ([Data 01]) may not be available according to broadcasting/video signal.

[Data 00]	[Data 01]	[Data 02]	[Data 03]
00	O	O	O
01	X	X	X
02	X	X	X
03	X	O	O

X : don't care

```
Ack [t][ ][Set ID][ ][OK][Data00][Data01][Data02]
[Data03][x]
[t][ ][Set ID][ ][NG][Data00][x]
```

26. Extended 3D(Command: x v) (only 3D models) (Depending on model)

- To change 3D option for TV.

```
Transmission [x][v][ ][Set ID][ ][Data 00][ ]
[Data 01][Cr]
```

[Data 00] 3D option

- 00 : 3D Picture Correction
- 01 : 3D Depth (3D Mode is Manual Only)
- 02 : 3D Viewpoint
- 06 : 3D Color Correction
- 07 : 3D Sound Zooming
- 08 : Normal Image View
- 09 : 3D Mode (Genre)

[Data 01] It has own range for each 3D option determined by [Data 00].

1) When [Data 00] is 00

- 00 : Right to Left
- 01 : Left to Right

2) When [Data 00] is 01, 02

Data Min: 0 - Max: 14 (*transmit by Hexadecimal code)

Data value range(0 - 20) converts Viewpoint range (-10 - +10) automatically (Depending on model)

- * This option works when 3D Mode (Genre) is manual only.

3) When [Data 00] is 06, 07

- 00 : Off
- 01 : On

4) When [Data 00] is 08

- 00 : Revert to 3D video from 3D-to-2D converted 2D video
- 01 : Change 3D video to 2D video, except 2D-to-3D video

- * If conversion condition doesn't meet, command is treated as NG.

5) When [Data 00] is 09

- 00 : Standard
- 01 : Sport
- 02 : Cinema
- 03 : Extreme
- 04 : Manual
- 05 : Auto

```
Ack [v][ ][Set ID][ ][OK][Data00][Data01][x]
[v][ ][Set ID][ ][NG][Data00][x]
```

27. Auto Configure (Command: j u) (Depending on model)

- To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

```
Transmission [j][u][ ][Set ID][ ][Data][Cr]
```

Data 01 : To set Auto Configure

```
Ack [u][ ][Set ID][ ][OK/NG][Data][x]
```





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