Life's Good

OWNER'S MANUAL

LG CineBeam AI ThinQ

DLP Projector

Please read the safety information carefully before using this product.

HU70LA
HU70LAB

www.lg.com

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LICENSES

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POWERED BY

Covered by patents at patentlist.accessadvance.com

NOTE

- Images shown in this manual may differ from your projector.
- Your projector's OSD (On Screen Display) may differ slightly from that shown in this manual.

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

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

SAFETY PRECAUTIONS

Please take note of the safety instructions to prevent any potential accident or misuse of the projector.

Child injuries can be prevented by following these simple safety precautions.

The precautions should be followed in the same manner when you store or move your existing projector.

- Safety precautions are given in two forms, i.e., **WARNING** and **CAUTION** as detailed below.

  ⚠ **WARNING**: Failure to follow the instructions may cause serious injury and even death.

  ⚠ **CAUTION**: Failure to follow the instructions may cause personal injury or product damage.

- Read the owner's manual carefully and keep it on hand.



The lightning flash with arrowhead symbol, within an equilateral triangle, 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 exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this device.

WARNING/CAUTION

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

Read these instructions. Keep these instructions.
Heed all warnings. Follow all instructions.

Indoor Installation

⚠ WARNING

Do not install products including projectors and remote controls in the following places:

- Any place exposed to direct sunlight;
- Any humid place such as bathroom;
- Any place near hot objects such as flammables and stoves;
- Any place where oil, oil mist, and steam can reach such as a worktop or places near a humidifier;
- Any place where water can splash like a vase or the aquarium;
- Any place that is dusty or exposed to wind and rain;
- Any place that is under the air conditioner or is directly exposed to the wind from the air conditioner;
- Any place near flammable materials such as flammable sprays, etc.; or
- Any cupboard, bookcase shelf or cabinet without a fixture installed and any place where a pet can access.

• It may cause an electric shock, fire, malfunction, deformation or falling.

Be careful not to fall or drop the projector when connecting an external device.

• It may cause injury or damage to the product.

Keep the following precautions in mind to prevent the temperature rise inside the projector:

- Install the air vents at least 30 cm (11.8 inches) away from the wall.
- Do not install the product in a place where it cannot be ventilated, such as on a bookcase or in a closet.
- Do not install the product on carpet or cushion.
- Make sure that the air vents are not blocked with tablecloths, curtains, etc.

• It may cause a fire.

For places where oil or oil mist can reach, do not install the product on a wall or ceiling.

• The product may be damaged and fall.

Do not allow a child to hang or climb on the installed projector.

• The projector may fall and cause injury or death.

When installing the product on the ceiling, observe the following precautions to prevent the projector from falling:

- Contact the Customer Support Center for installation.
- Tighten the product by using the mounting equipment and M4 x 8 mm screws that are approved by a professional technician.
- Do not use adhesive, lubricant, oil, etc. when using the mounting equipment.
- Do not tighten the screws with an excessive force since the projector may fall due to breakage of the screw connection part. (the recommended torque: 5-8 kgf.cm (4.34-6.94 lbf-in))

• A failure to follow the precautions may result in injury or death and product damage due to the fall of the product.

⚠ CAUTION

When moving the projector, be sure to turn off the power switch and disconnect the power plug, antenna cable and the connection cord between the devices.

- A failure to do so may cause damage to the projector or the cord, resulting in a fire or electric shock.

Do not install the projector on a shaky shelf, a slanted place, a place subject to vibrations, a place where the projector is not fully supported or on a fabric such as tablecloths.

- It may cause injury as the projector falls or tips over, or it may cause a malfunction of the projector.

To prevent damage to the power cord or plug, do not install the projector where the cord can be walked on.

- It may cause a fire or electric shock.

When installing the projector, do not install it too close to the wall.

- The cable connection may be deteriorated or the projector and its cables may be damaged.

When installing the projector on a cabinet or a shelf, make sure that the front end of the bottom of the projector does not come out.

- The projector may fall due to the unbalance of the center of gravity and cause injury to people or a malfunction.

When in Use

⚠ WARNING

When thunder or lightning strikes, unplug the power cord and do not touch the antenna wire.

- It may cause an electric shock.

If there is a gas leak from the gas lines, do not touch the outlet and be sure to vent by opening the window.

- Sparks may be caused and lead to a fire or burns.

When using the product with an external device such as a game console connected, keep the length of the connection line enough.

- The product may fall over and cause injury or product damage.

Do not scratch or give an impact on the projector with metallic materials or objects.

- It may cause injury to people or damage to the product.

Do not insert metallic objects including coins, hairpins or a piece of iron or flammable objects such as paper or matches into the projector.

- It may cause a fire or electric shock.

When replacing the batteries used for the remote control, be careful not to let children eat them and keep the batteries out of reach of children.

- If a child swallows the battery, consult a doctor immediately.

Keep the plastic wrapping of the product out of the reach of children.

- If a child misuses it, it may suffocate the child.

Do not touch near the vents during the operation or immediately after the power is turned off as they generate intense heat.

- The heat does not indicate a defect or a problem of the projector when it is operating so use it with confidence.

Do not look into the front of the lens when the projector is operating. Strong light is projected from the product which can cause injury to your eyes.

Never try to disassemble or modify the projector yourself. Always seek a qualified service technician or consult your dealer or local Service Center for inspection, adjustment or repairs.

- It may cause a fire or electric shock.

⚠ CAUTION

Do not use any product that uses high voltage electricity near the projector. (e.g. An electric fly swatter)

- It may cause a malfunction.

Do not place any liquid containers such as a vase, pot, cup, cosmetics or medicine, decorations such as candles or any heavy objects on top of the projector.

- Doing so may cause a fire, electric shock and injury due to failing.

The surface of the AC adapter is hot, so be careful not to put the surface against your skin or let the children touch the surface during use. (Except for the models that do not use an adapter)

Do not hold or move the projector upside down by grabbing only the power cord, signal cable, or projection mirror.

- Doing so may damage the product or cause an electric shock or fire.

Even if the projector is turned off with the remote control or the button, the power is not completely cut off if the power cord is plugged in.

If you use headphones or earphones, do not use them at high volume or for a long period of time. (It applies only to the models that support headphones (earphones).)

- Doing so may damage your hearing.

Do not start the projector when the volume is high.

- A loud volume can cause hearing loss.

Do not use or store the projector outdoors for an extended period of time.

Do not touch the projector's lens or give an impact on it.

- It may cause damage to the product.

Do not block the light from the projector lens with a person, book or other objects.

- If the light from the projector shines on an object for a long time, it can cause fire due to the heat of such light. Also, the reflected light can heat the lens and cause damage to the projector.

Do not mix old and new batteries together.

- It may cause battery rupture or fire due to liquid leakage or may cause electrical shock.

When replacing the batteries, make sure that they are properly installed according to the polarities (+, -).

- Battery rupture or leakage may lead to fire, explosion, injury or contamination (damage) of the surrounding area.

Do not expose the batteries to direct sunlight, fireplace, electric heater, high temperature above 60 °C (140 °F), excessively humid places or excessive heat.

- It can cause an explosion or fire.

Do not throw or disassemble the battery.

- It can cause a fire and explosion due to battery damage.

Do not carelessly throw away old batteries.

- It can cause an explosion or fire. The disposal method may vary by country and region. Dispose of it in an appropriate manner.

Risk of fire or explosion if the battery is replaced by an incorrect type.

Power

⚠ WARNING

Make sure the power plug is securely plugged in to prevent it from shaking.

- If the connection is unstable, it may cause a fire.

Do not plug too many devices into one multi-power outlet.

- This may result in fire due to the power outlet overheating.

Do not insert a metal object such as chopsticks into the other end of the power plug while it is plugged into a wall outlet. Also, do not touch the power plug immediately after unplugging it from the outlet.

- It can cause an electric shock.

Connect the power plug to a grounded outlet or multi-tap. (Except for any device without ground connection)

- A failure to do so may cause an electric shock due to a malfunction or electrical short.

Never touch the power plug with wet hands.

- It may cause an electric shock.

Disconnect the power plug from the outlet when you are not using the projector for a long time or absent.

- Dust collects and may cause an electric shock and fire caused by a short circuit due to heat, ignition and insulation/degradation.

The Power Plug is the disconnecting device. In case of an emergency, the Power Plug must remain readily accessible.

If any of the following occurs, it could be a malfunction of the product, so you must immediately turn the projector off, unplug the power cord from the outlet, and contact the service center:

- When the product is damaged;
- When the product fails;
- When there is a foreign substance inside the product; or
- When the product smokes or smells.

• It may cause a fire or electric shock.

⚠ CAUTION

Do not unplug or plug the power plug from/in the outlet while the power switch is on. (Do not use the power plug as a switch.)

• It may cause a fire or malfunction.

When removing the AC adapter or power cord, be sure to hold the plug part.

• A failure to do so may cause a fire or damage to the product.

Do not damage the AC adapter, power cord or power plug, place heavy objects on them or give an impact on them.

• It may cause a fire, electric shock or damage to the product.

Attach the power cord and AC adapter connected to the projector in a way that they are fully seated.

• Poor contact can cause a malfunction of the product and fire.

If there is dust on the pin part of the power plug or the outlet, clean it thoroughly.

• It may cause a fire.

Keep the power cord away from heat sources.

• The coating of the cord may melt and cause a fire or electric shock.

Use only the authorized power cord or AC adapter supplied by LG Electronics. Do not use any other products.

• It may cause a malfunction of the product, fire or electric shock.

Cleaning

⚠ WARNING

Do not spray water directly onto the projector when cleaning it.

- It may cause a fire or electric shock.

⚠ CAUTION

How to clean the projector

- Disconnect the plug from the outlet before cleaning.
- Do not wipe the optical system (the lens and mirror) immediately after the power is turned off.
- Do not spray the water with a sprayer on the product or wipe the product with a damp cloth.
- Wipe the product gently with a soft cloth.
- Do not use any detergents, automotive or industrial polishes, abrasives, waxes, benzenes or alcohols.

- It may cause a fire, electric shock or damage to the projector (deformation, corrosion, and breakage).

How to clean the lens

- Clean the lens if any dust or smudge appears on the surface of the lens.
- Clean the surface of the lens with an air sprayer or a soft, dry cloth.
- To remove dust or stains on the lens, use a compressed air duster, cotton swab, or soft cloth to gently wipe the lens.
- Never clean the lens when the projector is operating or immediately after the projector is turned off.
- Do not use any detergents, automotive or industrial polishes, abrasives, waxes, benzenes, alcohols, water, etc. on the lens, as they will damage the projector.

Consult your dealer or the service center for cleaning the interior of the product once a year.

- If you do not clean the interior of the projector for a long time while dust collects, it may cause a fire or malfunction.

Antenna

⚠ WARNING

Bend down the part where the outdoor antenna line goes into the inside so that rainwater cannot flow into it.

- Rainwater going into the product may cause a fire or electric shock.

⚠ CAUTION

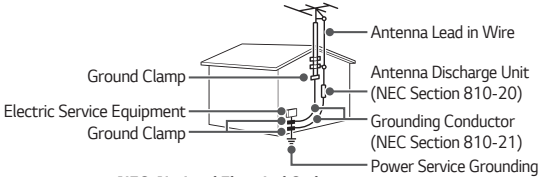
If you are using an outdoor antenna, please install it away from electrical wires to make sure it does not touch any nearby wires even when it falls down due to heavy wind.

- Failure to do so may cause electric shock or physical injury.

Outdoor Antenna Grounding

- 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



For USA

NOTE TO CABLE/TV INSTALLER

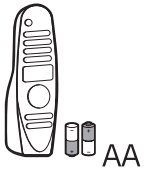
This reminder is provided to call the CATV system installer's attention to Article 820 - 40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close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

PREPARATION

The pictures may differ slightly from the actual product.

Accessories

Accessories included with the projector are show below.
Accessories are subject to change without prior notice.
New accessories may be added or old ones removed.



Magic Lighting Remote
Two AA Batteries



Owner's Manual



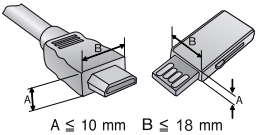
Ferrite core



AC-DC Adaptor



Power cord



- When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm (0.7 inches) or less and a height of 10 mm (0.3 inches) or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.
- When connecting two USB devices at the same time, each one should have bezels less than 8.5 mm (0.3 inches) thick.
- 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®/™ Cable (3 m (9.8 feet) or less)

Optional Extras

To purchase optional accessories, visit an electronics store or online shopping site or contact the retail store where you purchased the product. Optional accessories are subject to change without prior notice.



Projection Screen



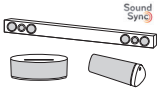
HDMI Cable



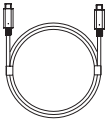
RF Cable



Optical Cable

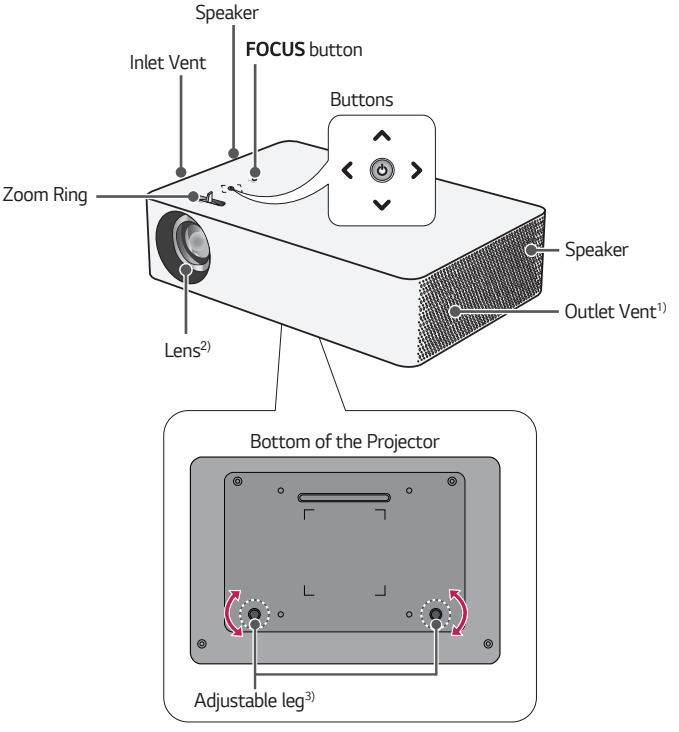


LG Audio Device

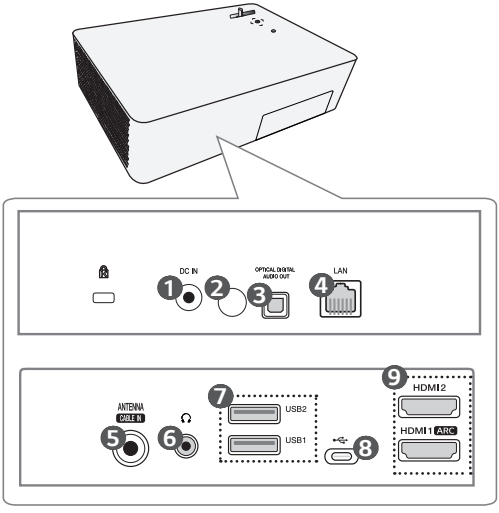


USB-C Cable

Parts and Components



1) Due to the high temperature of vent area, do not get close to the vent area.
2) Do not touch the lens when using the projector. The lens may be damaged. (Keep lens away from sharp objects.)
3) Turn the adjustable leg left or right to adjust the angle.



1. **DC IN** Port
2. IR Receiver
3. **OPTICAL DIGITAL AUDIO OUT** Port
4. **LAN** Port
5. Antenna Port (CABLE IN)
6. (Headphone Port)
7. USB 2.0 Port
8. (USB-C Port)
9. **HDMI** Port

Using the Buttons

You can operate the projector by pressing the button.

Basic functions

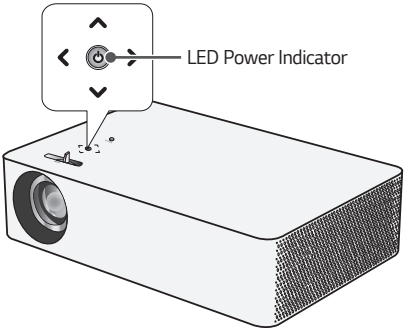
	**Power On**	Press the power button once while the projector is off.
	**Power Off (Press and Hold)**	Press and hold the Power button for more than 3 seconds while the projector is on.
	**Volume Control**	Adjust the volume by pressing the left/right button.
	**Channels Control**	Change the channel by pressing the up/down button.

Adjusting the menu

Press the power button once while the projector is on.
Press the top, bottom, left, and right buttons to move to a menu item (, , ,). After moving to the desired menu item, press the Power button once to select it.

- Turns the power off.
- Changes the input source.
- Clears on-screen displays and returns to projector viewing.
- Displays the Settings menu.

Projector Status Indicators



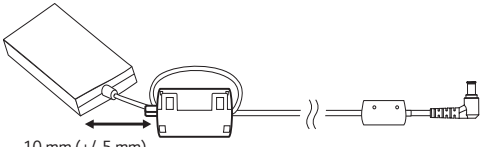
LED Power Indicator	
Red	Power standby state
Off	The projector is operating with the power on.

INSTALLATION

How to use the ferrite core

- Use the ferrite core as illustrated below to reduce electromagnetic radiation.
- The pictures may differ slightly from the actual product.

Put the ferrite core around the AC-DC Adaptor cable as illustrated below. Place the ferrite core as close to the AC-DC Adaptor body as possible for best results.



Cross Section of Ferrite Core (Gray)



Power Cord **Projector**

Projection Distance per Screen Size

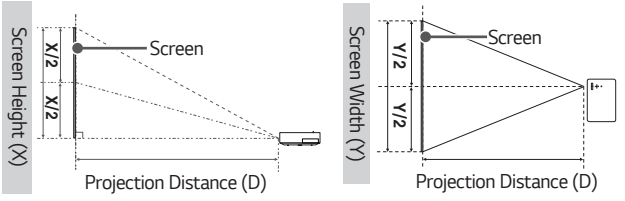
1 Place the projector on a sturdy, level surface, together with the PC or audio/video source.

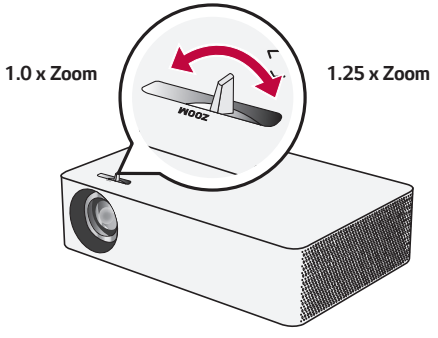
2 Place the projector an appropriate distance away from the screen. The distance between the projector and the screen determines the actual size of the image.

3 Position the projector so that the lens is at a right angle to the screen. If the projector is not at a right angle, the projected image will look distorted. To correct the distortion, use the Keystone function.

4 Connect the power cord of the projector and the connected device to the wall outlet.

Ratio of upward projection: 100 %





NOTE

- If the projected image looks distorted or bent, check to see if the screen is installed properly.

16:9 Aspect Ratio (1.0 x Zoom)							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
inches	mm	inches	mm	inches	mm	inches	mm
50	1270	43.5	1107	24.5	623	65.3	1660
55	1397	47.9	1218	26.9	685	72.0	1830
60	1524	52.2	1328	29.4	747	78.7	2000
65	1651	56.6	1439	31.8	809	85.4	2170
70	1778	61.0	1550	34.3	872	92.5	2350
75	1905	65.3	1660	36.7	934	99.2	2520
80	2032	69.7	1771	39.2	996	105.5	2681
85	2159	74.0	1882	41.6	1058	112.2	2850
90	2286	78.4	1992	44.1	1121	118.8	3020
95	2413	82.7	2103	46.5	1183	125.5	3190
100	2540	87.1	2214	49.0	1245	132.2	3360
105	2667	91.4	2324	51.4	1308	138.9	3529
110	2794	95.8	2435	53.9	1370	145.6	3700
115	2921	100.2	2546	56.3	1432	152.3	3869
120	3048	104.6	2657	58.8	1494	159.1	4042
125	3175	108.9	2767	61.2	1557	165.7	4210
130	3302	113.3	2878	63.7	1619	172.3	4378
135	3429	117.6	2989	66.1	1681	179.0	4547
140	3556	122.0	3099	68.6	1743	185.7	4718

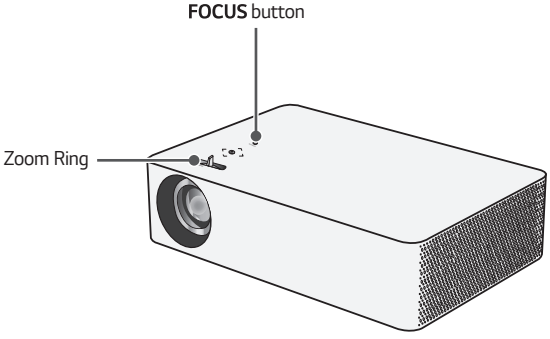
The projection distance may vary depending on the installation conditions.

16:9 Aspect Ratio (1.25 x Zoom)							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
inches	mm	inches	mm	inches	mm	inches	mm
60	1524	52.2	1328	29.4	747	62.9	1600
65	1651	56.6	1439	31.8	809	68.1	1730
70	1778	61.0	1550	34.3	872	73.5	1867
75	1905	65.3	1660	36.7	934	78.8	2004
80	2032	69.7	1771	39.2	996	84.4	2144
85	2159	74.0	1882	41.6	1058	89.6	2276
90	2286	78.4	1992	44.1	1121	94.8	2410
95	2413	82.7	2103	46.5	1183	100.3	2550
100	2540	87.1	2214	49.0	1245	105.5	2681
105	2667	91.4	2324	51.4	1308	111.0	2820
110	2794	95.8	2435	53.9	1370	116.3	2955
115	2921	100.2	2546	56.3	1432	121.6	3090
120	3048	104.6	2657	58.8	1494	127.1	3230
125	3175	108.9	2767	61.2	1557	132.2	3360
130	3302	113.3	2878	63.7	1619	137.7	3500
135	3429	117.6	2989	66.1	1681	142.9	3630
140	3556	122.0	3099	68.6	1743	148.0	3760

The projection distance may vary depending on the installation conditions.

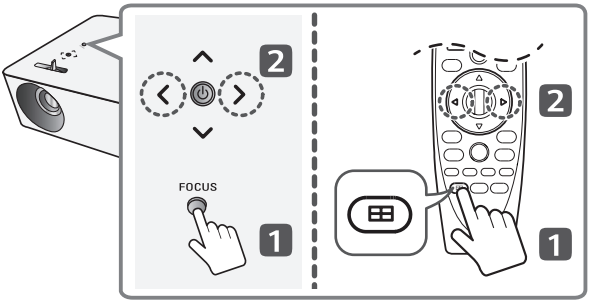
Focus of the Screen Image

When an image appears on the screen, check if it is in focus and fits the screen properly.



1 Press **(Focus Adjustment)** button on the remote control or the **FOCUS** button on the projector to execute the [Focus Adjustment] function.

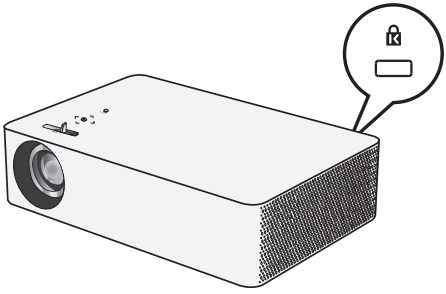
2 You can adjust the focus using the left and right buttons on the projector or the left and right buttons on the remote control. You can adjust the focus most effectively when the left and right screen are balanced. When adjusting the focus on the screen, do not let the product shake.



3 If the angle of the projection is not perpendicular, use the [Keystone] function.

Kensington Security System

- This projector has a Kensington Security Standard connector as an anti-theft mechanism. Connect a Kensington Security System cable as shown below.
- For more information on installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
- The Kensington Security System is an optional accessory.
- What is Kensington?
  Kensington is a company that provides safety systems for laptops and other electronic devices. Website: http://www.kensington.com

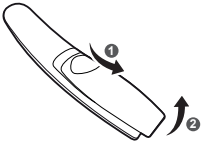


MAGIC LIGHTING REMOTE

- **Depending on country**

If the battery low message appears while using the Projector, replace the batteries.

As shown in the figure, press the top of the battery cover and slide it down the cover. Insert two new and identical batteries (1.5 V, AA type) with + and - poles pointing in the correct direction in the remote control.



*** : To use the button, press and hold for more than 3 seconds.**

⚠ CAUTION

- Do not mix new batteries with old ones.



(POWER)

Turns the Projector on or off.

You can turn your set-top box on or off by adding the set-top box to the universal remote control for your Projector.

Number buttons

Enters numbers.

9 *

Accesses the [QUICK HELP].

– (Dash)

Inserts a dash between numbers such as 2-1 and 2-2.

LIST

Accesses the saved channel list.

QUICK ACCESS *

Edits QUICK ACCESS.

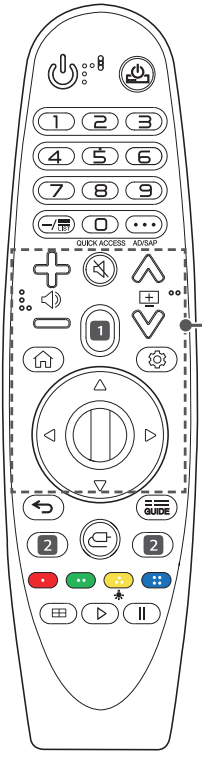
(QUICK ACCESS is a feature that allows you to enter a specified app or Live TV directly by pressing and holding the number buttons.)

• • • (MORE ACTIONS)

Displays more remote control functions.

AD/SAP *

Enables SAP (Secondary Audio Program) Feature.



Adjusts the volume level.

(MUTE)

Mutes all sounds.

(MUTE) *

Accesses the [Accessibility] menu.

(Voice recognition)

Network connection is required to use the voice recognition function.

Once the voice display bar is activated on the projector screen, press and hold the button and speak your command out loud.

(Search)

Search for content such as movies and other videos, or perform a web search by entering your search terms in the search box.

Scrolls through the saved channels.

Accesses the Home menu.

*****

Displays the list used previously.

(Q. Settings)

Accesses the Quick Settings.

(Q. Settings) *

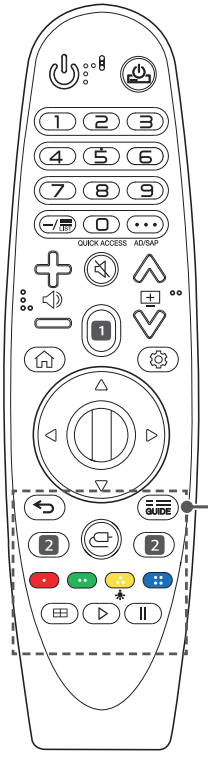
Displays the [All Settings] menu.

(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 the Magic Lighting Remote will operate like a general remote control. To display the pointer on the screen again, shake the Magic Lighting Remote to the left and right.

Wheel (OK)

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



(Back)
Returns to the previous screen.

(Back) *
Clears on-screen displays and returns to last input viewing.

GUIDE
Shows channels guide.

Streaming Service buttons
Connects to the Video Streaming Service.

(INPUT)
Changes the input source.

(INPUT) *
Accesses the [Home Dashboard].

These access special functions in some menus.

The remote control buttons light up so that you can use the remote control in the dark.

If the remote control does not move, the pointer disappears and the remote control light turns off in about 5 seconds.

The lighting function is applied when the product is shipped, and if you press and hold the button for more than 5 seconds, the **(POWER)** button flashes twice and you can turn the lighting function on or off.

(Focus Adjustment)
Execute [Focus Adjustment].

Control buttons (,)
Controls media contents.

To Register the Magic Lighting Remote

You must pair the Magic Lighting Remote with the projector to use it.
Pair the Magic Lighting Remote prior to use as follows.

1 Put batteries into the Magic Lighting Remote and turn the Projector on.

2 Point the Magic Lighting Remote at your projector and press the ⓞ **Wheel (OK)** on the remote control.

- If the projector fails to register the Magic Lighting Remote, try again after turning the projector off and back on.

To Re-register the Magic Lighting Remote

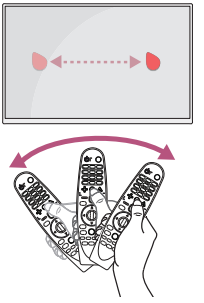
1 Press the ↩ and ⌂ buttons at the same time, for five seconds, to unpair the Magic Lighting Remote with your projector.

2 Press the ⓞ **Wheel (OK)** button towards the projector to re-register the Magic Lighting Remote.

- Pressing and holding the GUIDE button will let you cancel and re-register Magic Lighting Remote at once.

Using the Magic Lighting Remote

- If you shake the Magic Lighting Remote left and right or turn its wheel while pointing it at the projector, a pointer will appear on the projector screen. If you move the remote control in the direction you want, the pointer follows the movement.
  Move the pointer to the location you want and press the ⓞ **Wheel (OK)** button to execute the function.



Setting the Pointer of Magic Lighting Remote

⚙ → ⋮ → [Accessibility] → [Pointer Options]

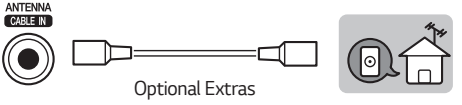
- You can set the pointer speed and size you want while it is on the screen.
  - [Tracking Speed]: Sets the pointer speed.
  - [Pointer Size]: Selects the pointer size.
- If the pointer has not been used for a certain period of time, it will disappear. When the pointer disappears from the screen, shake the Magic Lighting Remote right and left.
  The pointer will disappear if you press the up, down, left, right buttons, and the remote will work as a conventional remote.
- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- Use the remote control within the specified range (within 10 m (32.8 feet)). You may experience communication failures when using the device outside the coverage area or if there are obstacles within the coverage area.
- You may experience communication failures depending on the accessories. Devices such as a microwave oven and wireless LAN operate in the same frequency band (2.4 GHz) as the Magic Lighting Remote. This may cause communication failures.
- Impacts can cause the Magic Lighting Remote to malfunction.
- Take care not to bump into nearby furniture, electronic equipment, or other people when using the Magic Lighting Remote.

CONNECTING DEVICES

You can connect various external devices to the projector.

Connecting the Antenna or Cable

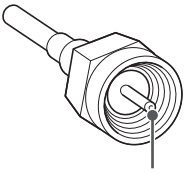
To watch TV using an indoor/outdoor antenna, connect a wall terminal and the antenna port of the projector using an RF cable (75 Ω).
You can watch terrestrial or cable (analog, digital) TV.



Optional Extras

NOTE

- Make sure not to bend the copper wire of the RF cable (75 Ω). Turn the input jack to the right to fasten it.
- Ensure you use a standard coaxial cable (75 Ω, sold separately) when connecting to the projector input.
- For better image quality in locations where signal strength is low, purchase and install a signal amplifier (booster).
- A signal splitter is required if you want to use two or more projectors through one antenna.
- If you have any problems when installing the antenna, please consult a suitable retailer or the store where you purchased the antenna.



Copper wire

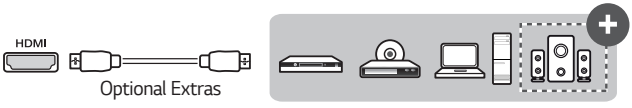
Connecting with a HDMI Cable

Various functions are available after connecting a digital broadcasting receiver, DVD, PC, laptop, etc. with an HDMI cable.

With an HDMI cable, you can enjoy high quality picture and sound.

Using a HDMI cable, connect the **HDMI** port of the projector to the HDMI output port of the device to connect. Both video and audio are output at the same time.

- **(INPUT)** → [Home Dashboard] → [INPUTS] → [HDMI1]/[HDMI2]



NOTE

ARC (Audio Return Channel)

- External audio devices that support SIMPLINK and ARC must be connected using **HDMI 1** ARC port. (+)
- When connected with a high-speed HDMI® cable, external audio devices that support ARC output or SPDIF work with the SIMPLINK function without the need for an additional optical audio cable.

When connecting PC/laptop

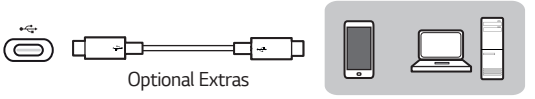
- The projector supports Plug and Play. Your PC will automatically detect the projector and requires no driver installation.

Connecting with a USB-C Cable

Connect the USB-C terminal of the projector to the USB-C output terminal of a PC/laptop or smartphone using a USB-C cable.

Contact the manufacturer of your device to see if this feature is supported. Only the smartphones that support USB-C will work.

- **(INPUT)** → [Home Dashboard] → [INPUTS] → [USB-C]



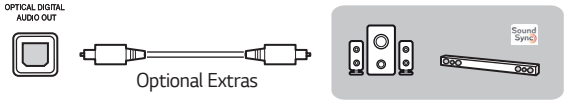
Optional Extras

NOTE

- PD (Power Delivery) and DP Alternate Mode are supported.
  - A USB-C gender changer may be necessary depending on the cable used if using PD (Power Delivery).
- The function may not operate properly depending on the connected device's specifications, USB-C cable status, or surroundings.
- The USB PD (for power supply) function may not operate according to the specifications of the connected equipment.
- Check the resolution of the connected devices before using the DP Alternate Mode function.

Connecting a Digital Amp

Using an optical cable, connect the digital audio input port of a digital amp to the **OPTICAL DIGITAL AUDIO OUT** port of the projector. The output of an amp with a digital converter must be set to the desired audio format. When using a HDMI cable to connect a home theater or when connecting an optical output to an external audio device, set [Sound Out] to [Optical]. If a projector, home theater, or the speaker of an external audio device is operating at the same time, there will be an echo.

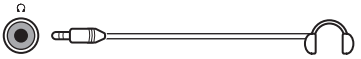


NOTE

- Refer to the user manual of the audio device to connect.
- When connecting this product to other devices, make sure to turn off and unplug all the devices.
- The audio output of this product has wide-ranging audio bandwidth, so the receiver volume must be adjusted properly. Speakers can be damaged by unexpected high frequencies.
- Connecting the **OPTICAL DIGITAL AUDIO OUT** port of the projector to the digital audio input port of a digital amp and the audio input port of the projector to the analog audio output port of the digital amp can cause sound oscillation due to the closed loop. Remove one of the two connections to prevent this. (This also applies to home theater devices.)

Connecting Headphones

You can listen to the audio through a headphone.



Not provided

Connecting a smart device (smartphone, tablet, etc.)

- **(INPUT)** → [Home Dashboard] → [INPUTS] → [HDMI1]/[HDMI2]
- The picture may look different from the actual product.

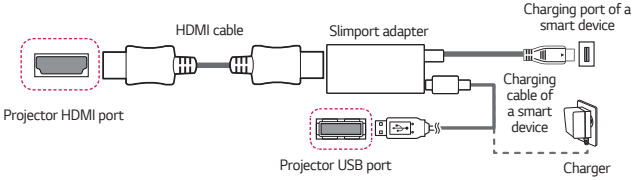
Connect a smart device to the projector using a cable[1] and set the external input of the projector to HDMI. The smart device screen will then be displayed through the projector. You can connect with any HDMI input port.

For model-specific instructions regarding use of the wired connection, please check with the smart device manufacturer.

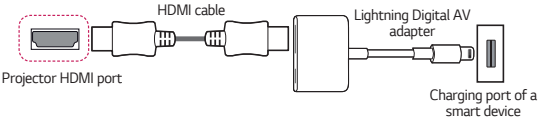
Supported smart devices may change depending on the circumstances of each manufacturer.

1) Examples of how to connect a cable to different smart devices (cable purchased separately).

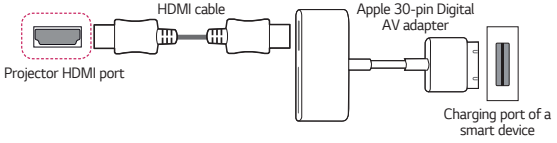
Slimport supported devices



Apple Lightning Digital AV adapter supported devices



Apple 30-pin Digital AV adapter supported devices



SPECIFICATIONS

MODEL	HU70LA (HU70LA-NA) HU70LAB (HU70LAB-NA)
Resolution (Pixel)	3840 (Horizontal) × 2160 (Vertical)[1]
Aspect ratio	16:9 (Horizontal:Vertical)
Projection distance – **Screen size**	1600 mm to 3760 mm (62.9 inches to 148.0 inches) – 1524 mm to 3556 mm (60 inches to 140 inches)
Ratio of upward projection	100 %
Power consumption	210 W
AC-DC Adaptor	Manufacturer: Honor Model: ACC-LATP1
	19.5 V ⎓ 10.8 A (Adaptor Input 100-240 V @ 50/60 Hz)
Television System	ATSC / NTSC-M / 64 & 256 QAM
Program Coverage	VHF 02 to 13, UHF 14 to 69, CATV 01 to 135, DTV 02 to 69, CADTV 01 to 135
External Antenna Impedance	75 Ω
Height	95 mm (3.7 inches) (without foot), 100 mm (3.9 inches) (with foot)
Width	314 mm (12.3 inches)
Depth	210 mm (8.2 inches)
Weight	3.2 kg (7.0 lbs)

1) 4K UHD resolution with 8.3 million discrete pixels projected by XPR (Expanded Pixel Resolution) video processing.

MODEL	HU70LA (HU70LA-NA) HU70LAB (HU70LAB-NA)	
USB Device	USB 2.0 Standard-A	Output: 5 V, 0.5 A (Max.)
	USB Type-C	Output: 5 V, 1 A (Max.)
Environment Condition	Temperature	
	Operation	0 °C to 40 °C (32 °F to 104 °F)
	Storage	-20 °C to 60 °C (-4 °F to 140 °F)
	Relative Humidity	
	Operation	0 % to 80 %
	Storage	0 % to 85 %

- Use only power supplies listed in the user instructions.
- Contents in this manual may be changed without prior notice due to upgrade of product functions.

HDMI (DTV) / USB-C (DTV) Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.46	59.94
640 x 480	31.5	60.00
720 x 480	31.47	59.94
720 x 480	31.5	60.00
720 x 576	31.25	50.00
1280 x 720	44.96	59.94
1280 x 720	45	60.00
1280 x 720	37.5	50.00
1920 x 1080i	28.12	50.00
1920 x 1080i	33.72	59.94
1920 x 1080i	33.75	60.00
1920 x 1080p	26.97	23.97
1920 x 1080p	27.00	24.00
1920 x 1080p	33.71	29.97
1920 x 1080p	33.75	30.00
1920 x 1080p	56.25	50.00
1920 x 1080p	67.43	59.94
1920 x 1080p	67.5	60.00
1920 x 1080p	112.5	100
1920 x 1080p	134.86	119.88
1920 x 1080p	135.00	120

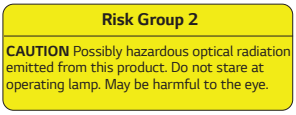
Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
3840 x 2160p	53.95	23.98
3840 x 2160p	54	24.00
3840 x 2160p	56.25	25.00
3840 x 2160p	61.43	29.97
3840 x 2160p	67.5	30.00
3840 x 2160p	112.5	50.00
3840 x 2160p	134.86	59.94
3840 x 2160p	135	60.00
4096 x 2160p	53.95	23.98
4096 x 2160p	54	24.00
4096 x 2160	56.25	25.00
4096 x 2160	61.43	29.97
4096 x 2160	67.5	30.00
4096 x 2160	112.5	50.00
4096 x 2160	134.86	59.94
4096 x 2160	135	60.00

HDMI (PC) / USB-C (PC) Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60.00
1360 x 768	47.71	60.01
1152 x 864	54.34	60.05
1280 x 1024	63.98	60.02
1920 x 1080	67.5	60
1920 x 1080	135	120
3840 x 2160	54	24.00
3840 x 2160	56.25	25.00
3840 x 2160	67.5	30.00
4096 x 2160	53.95	23.97
4096 x 2160	54	24

- If an invalid signal is input into the projector, it will not be displayed properly on the screen or a message such as [No Signal] or [Invalid Format] will be displayed.
- The projector supports the DDC1/2B type as the Plug and Play function (Auto-recognition of PC monitor).
- 3840 x 2160 is recommended as the best picture quality in the PC mode.

Other specifications



This label is attached to the bottom of the product and language may differ.

SYMBOLS

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

TROUBLESHOOTING

Please check the list below when you experience the following symptoms during use of the product. It may not be a failure.

Checklist for Safety (please check a long-used projector for safety issues.)

Does your device have any of the following issues?

- The projector does not display anything on the screen or output sound when it is turned on.
- The product emits smoke or a burning smell.
- Water or foreign substances are present inside the product.
- Part of the projected image is cut out.
- A strange noise (crackling or sparking sound) regularly occurs from inside the projector.
- The projector still displays the screen or outputs sound when it is turned off.
- There are other errors or failures.

In this case, stop using the product.

- For safety, turn off the power switch and remove the plug from the socket.
- Contact the place of purchase or authorized service center for product inspection.
- Do not attempt to repair the product yourself.

Abnormal behavior

- There is a colored dot (bright dots, dark dots, stationary dots, and/or flickering dots) on the screen.
  - This projector was produced with high precision technology. However, a tiny dark or bright dot may appear on the screen. This is a common occurrence due to the production process, and it does not indicate a functional failure.
- The remote control may not work properly where a lamp with electronic stabilizer or a three-wavelength lamp is installed.
  - In this case, replace the lamp with electronic stabilizer or the three-wavelength lamp with international standard products to ensure the remote control works properly.

LIMITED WARRANTY (USA)

THE PRODUCT'S FULL LIMITED WARRANTY TERMS AND CONDITIONS ARE AVAILABLE AT https://www.lg.com/us AND/OR YOUR WARRANTY.

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG ELECTRONICS ("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.

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. 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. 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 1- 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 and clicking on "How do I find my model 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.

LIMITED WARRANTY (CANADA)

THE PRODUCT'S FULL LIMITED WARRANTY TERMS AND CONDITIONS ARE AVAILABLE AT https://www.lg.com/ca_en/ AND/OR YOUR WARRANTY.

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 THE LAWS OF YOUR PROVINCE OR TERRITORY DO NOT PERMIT THAT, OR, IN OTHER JURISDICTIONS, IF YOU CHOOSE TO OPT OUT. FOR FURTHER CLARITY, THIS ARBITRATION PROVISION IS NOT APPLICABLE TO CONSUMERS RESIDING IN ONTARIO, BRITISH COLUMBIA OR QUÉBEC. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED "PROCEDURE FOR RESOLVING DISPUTES" BELOW.

- **DISCLAIMER:**
  IF YOU ARE A CONSUMER SUBJECT TO QUÉBEC, BRITISH COLUMBIA OR ONTARIO'S CONSUMER PROTECTION LEGISLATION, THE EXCLUSION OF WARRANTIES CONTAINED IN THIS SECTION DO NOT EXCLUDE OR LIMIT THE RIGHTS AND REMEDIES THAT YOU MAY HAVE UNDER SUCH ACT, INCLUDING THE RIGHT TO MAKE A CLAIM UNDER ANY OF THE STATUTORY WARRANTIES PROVIDED THEREUNDER.

PROCEDURE FOR RESOLVING DISPUTES:
EXCEPT WHERE PROHIBITED AT LAW (INCLUDING WITH RESPECT TO QUÉBEC, BRITISH COLUMBIA AND ONTARIO CONSUMERS), 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. EXCEPT WHERE PROHIBITED AT LAW (INCLUDING WITH RESPECT TO QUÉBEC, BRITISH COLUMBIA AND ONTARIO CONSUMERS), YOU AND LG BOTH IRREVOCABLY AGREE TO WAIVE 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 Canada, 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 LGECI Legal Team at 20 Norelco Drive, North York, Ontario, Canada M9L 2X6 (the "Notice of Dispute"). 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 of LG's receipt of the Notice of Dispute, the dispute shall be resolved by binding arbitration in accordance with the procedure set out herein. You and LG both agree that, during the arbitration proceeding, the terms (including any amount) of any settlement offer made by either you or LG will not be disclosed to the arbitrator until the arbitrator determines the dispute.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after LG's receipt of the Notice of Dispute, you and LG agree to resolve any claims between you and LG only by binding arbitration on an individual basis, unless you opt out as provided below, or you reside in a jurisdiction that prevents full application of this clause in the circumstances of the claims at issue (in which case if you are a consumer, this clause will only apply if you expressly agree to the arbitration). To the extent permitted by applicable law, 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, except to the extent such a prohibition is not permitted at law, 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 except to the extent this prohibition is not permitted at law in your province or territory of jurisdiction as it relates to the claims at issue between you and LG. This does not apply to consumers in Ontario, British Columbia and Québec. In accordance with provincial legislation, the consumer and LG may agree to resolve the dispute using any procedure available, including commencing the action before the competent courts of those provinces.

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 private and confidential, and conducted on a simplified and expedited basis before a single arbitrator chosen by the parties under the provincial or territorial commercial arbitration law and rules of the province or territory of your residence. You must also send a copy of your written demand to LG at LG Electronics, Canada, Inc., Attn: Legal Department- Arbitration, 20 Norelco Drive, North York, Ontario M9L 2X6. This arbitration provision is governed by your applicable provincial or territorial commercial arbitration legislation. For consumers in Ontario, British Columbia and Québec, the applicable arbitration legislation only applies if consumers agree to submit the dispute to arbitration. 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 province or territory of your purchase shall govern this Limited Warranty and any disputes between you and LG except to the extent that such law is preempted by or inconsistent with applicable federal or provincial/territorial law. Should arbitration not be permitted for any claim, action, dispute or controversy between you and LG, you and LG attorn to the exclusive jurisdiction of the courts of the province or territory of your purchase for the resolution of the claim, action, dispute or controversy between you and LG.

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 unless you seek more than $25,000 in damages, in which case the payment of these fees will be governed by the applicable arbitration rules. Except as otherwise provided for herein, LG will pay all filing, administration and arbitrator fees for any arbitration initiated in accordance with the applicable arbitration 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 applicable laws), then the payment of all arbitration fees will be governed by the applicable arbitration 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 applicable arbitration 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 (1) on the basis of documents submitted to the arbitrator, (2) through a telephonic hearing, or (3) by an in-person hearing as established by the applicable arbitration rules. If your claim exceeds $25,000, the right to a hearing will be determined by the applicable arbitration rules. Any in-person arbitration hearings will be held at the nearest, most mutually-convenient arbitration location available within the province or territory in which you reside unless you and LG both agree to another location or agree to a telephonic arbitration.

Severability and Waiver. If any portion of this Limited Warranty (including these arbitration procedures) is unenforceable, the remaining provisions will continue in full force and effect to the maximum extent permitted by applicable law. Should LG fail to enforce strict performance of any provision of this Limited Warranty (including these arbitration procedures), it does not mean that LG intends to waive or has waived any provision or part of this Limited Warranty.

Opt Out. The arbitration provision requires you and LG to resolve disputes by binding arbitration instead of court, unless the laws of your province or territory do not permit that, or, in other jurisdictions, if you choose to opt out. The arbitration provision does not apply to consumers in Ontario, British Columbia and Québec. For individuals that fall within the binding arbitration provisions, 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 1-800-980-2973. 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/ca_en/findmodel_serial/).

In the event that you "Opt Out", the law of the province or territory of your residence shall govern this Limited Warranty and any disputes between you and LG except to the extent that such law is preempted by or inconsistent with applicable federal or provincial/territorial law. Should arbitration not be permitted for any claim, action, dispute or controversy between you and LG, you and LG agree to attorn to the exclusive jurisdiction of the courts of the province or territory of your residence for the resolution of the claim, action, dispute or controversy between you and LG.

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.

Conflict of Terms. In the event of a conflict or inconsistency between the terms of this Limited Warranty and the End User License Agreement ("EULA") in regards to dispute resolution, the terms of this Limited Warranty shall control and govern the rights and obligations of the parties and shall take precedence over the EULA.


LG
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ABOUT LG PROJECTOR

Image shown may differ from your projector.
Your projector's OSD (On Screen Display) may differ slightly from that shown in this manual.

[ ] : the buttons and the text to be displayed on the projector screen.

P/NO : SAC37813544 (2004-REV01)

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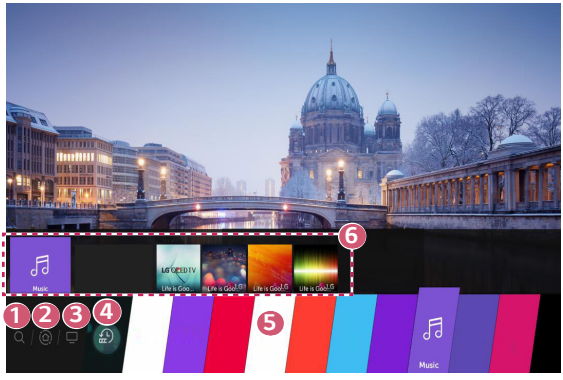
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ABOUT LG PROJECTOR

Home Tutorial

Using the Home feature of the LG Projector

You can open the Home screen by pressing the button on your remote control. You can combine frequently used apps on a single screen and use whichever you want at any time.



1. Launch [Search].
2. Move to the [Home Dashboard].
   You can select or control a device (mobile, external device, etc.) connected to the projector.
3. Move to the TV input you used recently.

4 Move to the recently used app.
Long-press the button on the remote control or focus the [Recents].
You can run or close a recently used app in the list provided in the preview area at the top.

5 You can run, move, and delete all the apps installed on your projector.

6 Focus on each App area. It provides the preview at the top.
You can check or run useful features of each app and recommended content on the preview without entering into the app.
- Some apps may not provide the preview.

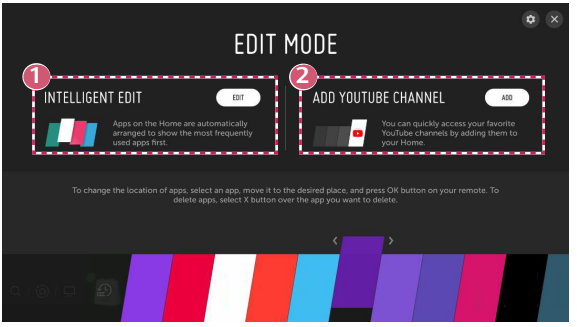
- The availability of and access to contents and services in LGE device are subject to change at any time without prior notice.

Manage LG Projector Home

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

1. Select the app you want to edit, and press and hold the ⓘ **Wheel (OK)** or ◉ **OK** button on the Remote Control. This will activate the app edit mode.
   Or you can select the edit mode button at the far right corner of the Home list to enter the app edit mode.
2. To move the app to your desired position, go to the position and press the ⓘ **Wheel (OK)** or ◉ **OK** button. To delete an app, select the ✕ above the app.
   - You can move and delete as many apps as you wish before exiting the edit mode.
   - You can also move apps with the ◁/▷ buttons on your remote control.
3. After the editing is done, press the ✕ at the top right to exit the app edit mode.

- The default projector app cannot be edited.



1 You can automatically arrange the app list in the order of most frequently used based on your accumulated app usage pattern.

2 You can add your favorite video service channel to the list.

- This feature is available only when the network is connected.
- Some models may not be supported.

Prepare Live TV

Watching TV broadcasting

1 Connect the broadcast antenna/cable to the projector. You may also connect a piece of equipment that can receive broadcasting such as a set-top box instead of the antenna/cable.
Run the **(Q. Settings)** → → [Connection] → [Device Connector] and select the [Set-Top Box/OTT] that appears in the device list, and you can see it.

2 Start the **(Q. Settings)** → → [Channels] → [Channel Tuning] → [Auto Tuning]. Finds and adds only channels being broadcast.

Network Setting

Network Setting

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

Setting a Wired Network

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

2 Press the **(Q. Settings)** button on the remote control and select → [Connection] → [Wired Connection (Ethernet)].

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

Setting a Wireless Network

1 Turn on the power of the router connected to the Internet.

2 Press the **(Q. Settings)** button on the remote control and select → [Connection] → [Wi-Fi Connection].

3 When the network search is complete, the list of networks available for connection is shown.

4 Select a network to connect. If your Wireless Router is password protected, enter the password configured for the router.

Network Setting Warnings

- Use standard LAN cable (connect to Cat7 or higher with RJ45 connector, 10 Base-T, or 100 Base TX LAN port).
- Resetting the modem may fix some network connection problems. Turn the power OFF, disconnect and reconnect it, and then turn the power on to solve the problem.
- LG Electronics is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- The network connection may not work properly because of network settings or the Internet service provider.
- DSL service must use a DSL modem; and cable service must use a cable modem. Since only a limited number of network connections may be available, projector network setting may not be used depending on the contract with Internet service provider. (If the contract does not allow more than one device per line, only the already-connected PC may be used.)
- A wireless network can experience interference from other devices that use the 2.4 GHz frequency (wireless phone, Bluetooth device, or microwave oven). Although interference can also happen when using the 5 GHz frequency, it is less likely to occur.
- The wireless environment can make wireless network service run slowly.
- Failure to turn off all local home networks may cause excessive traffic on some devices.
- The access point device must support wireless connections and wireless connection feature must be enabled on the device to have AP (access point) connection. Contact the service provider for availability of wireless connections on the access point.
- Check SSID and security settings of the AP. Refer to the appropriate documentation for SSID and security settings of the AP.
- Invalid settings of network devices (wired/wireless line sharer, hub) can cause the projector to operate slowly or not operate properly. Install the devices correctly according to the appropriate manual and network.
- The connection method may differ depending on the AP manufacturer.

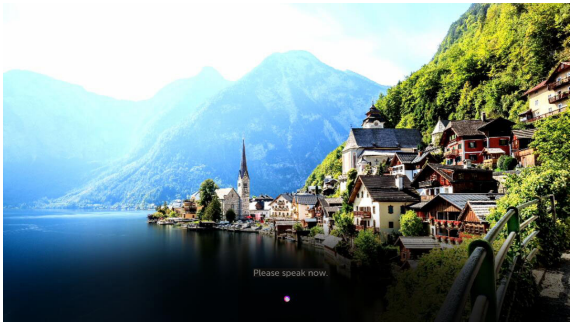
HOW TO OPERATE THE PROJECTOR

Using Projector Functions through Speech

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

1 Press and hold the button on the remote control and speak out the function you want to launch or the keyword you want to use for your search.

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



- This feature is available in certain countries only.
- Your [Location] must correspond to the language for exact search results. Some function may not be available if your location settings and language settings are different.
- You can change the language in **(Q. Settings)** → → [General] → [Language] → [Menu Language].
- The languages available for voice recognition features may be changed in accordance with service operation policy.
- Details of service may vary by model.
- Please note that AI service may be changed, removed or terminated, without notice, by LGE or its third party providers.
- Press the button on the remote control to view examples of the functions you can use with voice command.

Cautions for Speech Recognition

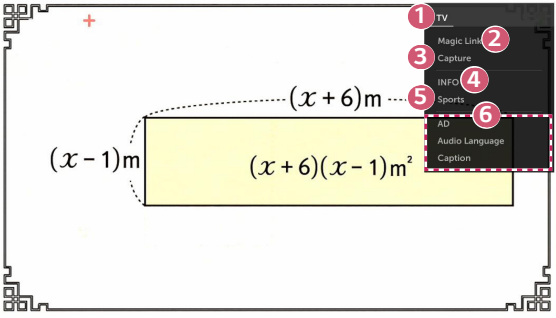
- Voice recognition requires a Magic Lighting Remote, which may not be supported by certain models.
- To use all speech recognition features, you need to set your channels, regions, etc. Otherwise, you cannot use some features.
- You must have a network connection to use the speech recognition feature.
- If you have a network connection, you need to accept the terms and conditions to use speech recognition.
- To control the set top box connected to the projector with the voice recognition feature, go to **(Q. Settings)** → → [Connection] → [Device Connector] to set up a universal remote control.
- It is recommended to point the Magic Lighting Remote toward the set top box after the voice input.
- The rate of speech recognition may vary depending on the characteristics of the user (voice volume, pronunciation, accent, and talking speed) and the surroundings (noise and projector volume).
- To achieve accurate recognition of your speech, you must pronounce words in a slow and accurate manner at an appropriate voice volume at a distance of about 10 cm (3.9 inches) away from the Magic Lighting Remote's microphone.
- If you speech is not recognized properly, speech recognition may operate differently than you originally intended.

To View More Features of the Remote Control

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

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

2 Using the remote control, select your desired button on [More Actions] displayed on your projector screen.



1 When you select a device, the [More Actions] turns into the remote control for the device.
If a sound bar is connected, the [More Actions] can be used as a remote control for the sound bar.
- You need Magic Lighting Remote to use universal remote control function.

2 Various kinds of information related to the program you are watching will appear at the bottom of the screen.

3 You can capture your projector screen.
- Some models may not be supported.
- You can view/delete screen-captured images in the [Photo & Video] app.
- You can copy screen-captured images to USB storage device in the [Photo & Video] app. (Some models may not be supported.)

4 It displays the information for the program you are watching, external input, photographs, music, video, etc. on the screen.

5 You can set the video/sound mode for watching sports games.

6 You can set features related to the program you are watching.
- Available features may vary depending on the broadcast signal.

- The types of buttons appearing on the [More Actions] vary, depending on the region and the type of connected device.
- Some models may not be supported.

Universal Remote Control

With the Magic Lighting Remote, you can control Set-Top Boxes, Blu-ray Players, Home Theater systems, etc.

Automatically Setting the Universal Remote Control

Connect the devices to be set to the projector's HDMI input, and turn the power of the device on.

The projector will scan the connected device to automatically set the universal remote control without manual setting.

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

Manually Setting the Universal Remote Control

If the universal remote control is not automatically set or it is connected to the AV input/Component input, you can manually set it.

1 Select the **(Q. Settings)** → → [Connection] → [Device Connector].

2 Select the type of the device you want to set.

3 Complete the settings for the universal remote control according to the guidance on the screen.
You can change or cancel the universal remote control settings.

- This feature can only be used with the Magic Lighting Remote. (The provided remote control differ depending upon model.)
- Some models may not be supported.
- AV input/Component input ports are available in certain models only.
- When changing the settings, check that the device to be changed is turned on.
- You can set up the universal remote control with the latest updated information.
- The manual setting feature for universal remote control is not supported for a game console.
- Some buttons may not work depending upon the model of the external device.
- Place the device near the projector for seamless operation.
- If there is an obstacle in front of the device, it may not be able to receive the signal properly. If the device is in a drawer, open the drawer.

Launching Apps through [QUICK ACCESS]

Using apps quickly and easily with [QUICK ACCESS]

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

Setting the [QUICK ACCESS]

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

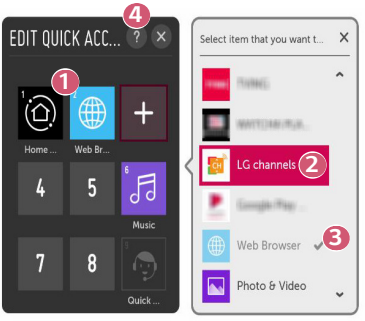
2 Press and hold the number button (1~8) you want to register.
No. 9 is fixed to [QUICK HELP].

3 When the registration pop-up window appears, select [Yes].

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

Checking and editing [QUICK ACCESS]

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



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

Using SIMPLINK

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

1. Connect the SIMPLINK HDMI Output port to the projector's HDMI IN port with an HDMI® cable.
2. Press the **(Q. Settings)** button on the remote control and select → [Connection] → [HDMI Device Settings].
3. Set [SIMPLINK (HDMI-CEC)] to [On].
4. Configure the [Auto Power Sync] settings to [On] or [Off]. (If [Auto Power Sync] is set to [On], turning on a SIMPLINK-linked device will turn the projector on. When you turn off the projector, the device will also be turned off.)
5. Turn on the connected device. When the projector automatically connects to the device, the input will switch. If the device is not automatically connected to the projector, click the button.

- This feature works only with devices with the SIMPLINK logo. Check for the SIMPLINK logo on the external device. There may be a problem using the device if the device does not meet the required specifications.
- A high-speed HDMI® cable with CEC (Consumer Electronics Control) function is required to use SIMPLINK. Pin 13 of the high-speed HDMI® cable is used for data transfer between devices.
- If you want to output sound to the external audio equipment connected through the HDMI® cable, set [SIMPLINK (HDMI-CEC)] to [On].

Supported SIMPLINK Functions

- **Instant Play**
  When you start a multimedia device, you can immediately watch content from the device on the projector without having to control anything.
- **Controlling devices with the projector remote control**
  Enables the user to control multimedia devices with the projector remote control to watch content.
  — The pointer function of the Magic Lighting Remote can be limited.
- **Main Power Off**
  If [Auto Power Sync] is set to [On] in the [HDMI Device Settings] settings and the projector is turned off, the devices connected to your projector via SIMPLINK will also be turned off.
  — This feature is only available in certain devices.
- **Main Power On**
  If [Auto Power Sync] is set to [On] in the [HDMI Device Settings] settings, turning on a SIMPLINK-linked device will turn the projector on.
  — If [SIMPLINK (HDMI-CEC)] is set to [Off], [Auto Power Sync] cannot be set to [On].
  — Some models may not be supported.

ENJOY LIVE TV

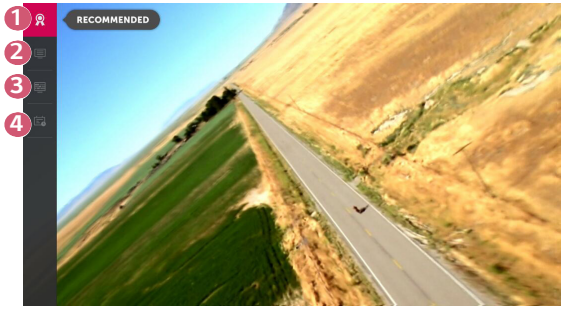
Live Menu

Using Live Menu

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

1 Run [TV] by pressing .

2 Move the Magic Lighting Remote's pointer to the left side of the projector screen.
You can bring it up by pressing the LIST button on the remote control even when you are not watching any broadcasts.



1 [RECOMMENDED]: Get channel and program recommendations based on your viewing history.

2 [CHANNELS]: View a list of broadcast content that is currently being broadcast.

3 [GUIDE]: You can view programs and the schedule of each program.

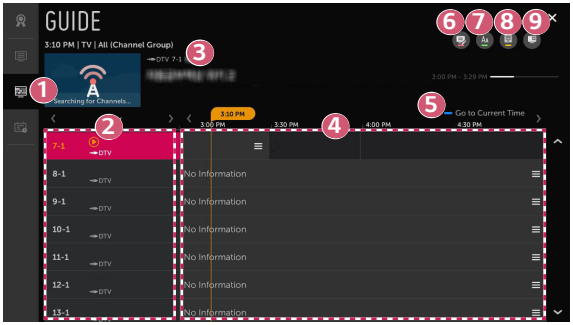
4 [TV SCHEDULER]: You can enter the time and date of program to schedule watching it at the set time.

- The channels displayed in Channel List are a configuration of channels provided by the broadcast service provider. Therefore, if the broadcast service provider has changed its channel configuration without notice, the channels displayed in Channel List may differ from the actual TV channels.
- Because channel information displayed in Channel List includes information provided by external Electronic Program Guide (EPG) providers, it may differ from the actual TV channels.
- To receive proper recommendation services, you need to set up your network, region and auto tuning.
- The configurable items differ depending upon model.

Guide

Viewing Guide

You can view programs and the schedule of each program.
Press the remote control's LIST button, and select the [GUIDE] tab on the left side of the screen.



1. Click on each area, and you can move to the app.
2. You can view information about the channel and broadcast.
3. You can view information about the program you are currently watching as well as the focused program information.
4. Select the button or the title of the desired program. You can view more information on the program and perform [WATCH] or [Reminder], etc.
5. You will be taken to the program list for the current date and time.

6 Launch [CHANNEL MANAGER].

7 You can change the size for the program list to adjust the number of channels displayed on the screen.

8 Sets the filter.

9 You can turn on / off Mini TV.

- Program information is not displayed for channels with no provided broadcast information.

Viewing Set-Top Box Guide

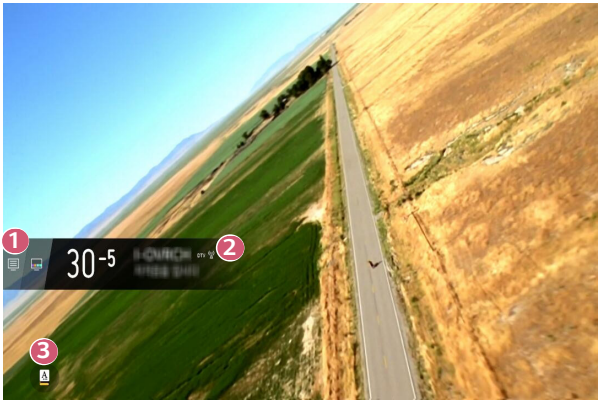
After connecting the Set-Top Box, you can view programs and the schedule of the Set-Top Box and use the Magic Lighting Remote.

- Some models may not be supported.

Checking Program Info

Viewing Program Information

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



1. Move to the [CHANNELS].
2. It display the information about the program you are watching. Select a channel banner to enter the detailed information pop-up to see the detailed program information or run additional features related to the banner. You can view broadcast information about other channels using the △/▽ buttons.
   - You can view broadcast information about the channel you are currently watching using the ◁/▷ buttons.
   - Press the button on the remote control move the banner's position.
   - The features can be controlled only within the detailed information pop-up.

3 If the program you are watching includes information such as [Closed Caption] or [Audio Language], you can set these features.

- Available features may vary depending on the broadcast signal.



You can set [Closed Caption].



You can set [Audio Language].

- Only available with digital broadcasts.



You can set [Multi Audio].

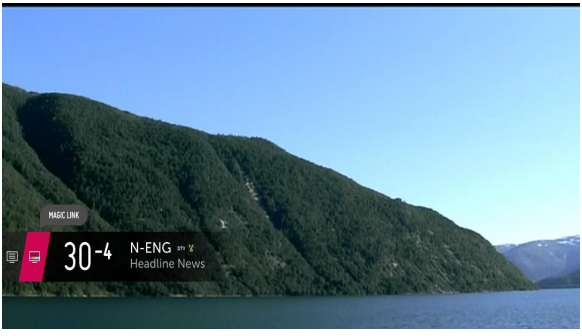
- Only available with analog broadcasts.

Using [MAGIC LINK]

It offers various videos and information related to the program you are currently watching.

If you are watching a program via a set-top box, you should complete the universal remote control settings to use the [MAGIC LINK] function properly.

1 Press the ⓞ **Wheel (OK)** button on your remote control. The Channel Banner appears.



2 Press the [MAGIC LINK] button in the Channel Banner.

3 Various kinds of information related to the program you are watching will appear at the bottom of the screen. Select the desired information.

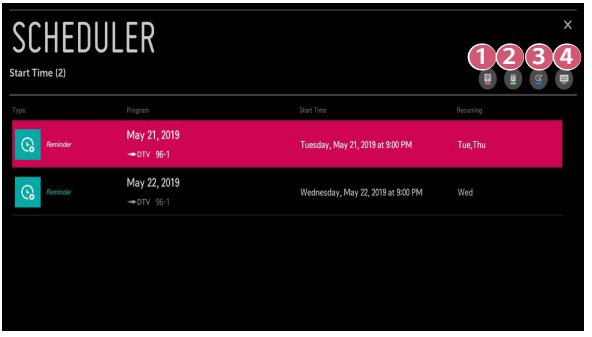
- The search range may vary depending on the country.
- While [MAGIC LINK] is in use, the content provided may not always match the program that you are watching at the time. Change the channel with the Magic Lighting Remote before using [MAGIC LINK].
- Some adult-only channels or locked channels do not support this function.
- The search results may vary depending on the information on the program you are watching.
- The [MAGIC LINK] feature via set-top box is supported in some countries or models only.
- Some set-top boxes may not support the [MAGIC LINK] function.
- Only set-top boxes connected via HDMI input are supported.

Using [TV SCHEDULER]

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

1 Press the remote control's LIST button, and select the [TV SCHEDULER] tab on the left side of the screen.

2 Select the at the top right.



1 You can sort the list.

2 You can set the Delete Mode.

3 You can set the New Reminder.

4 Launch [GUIDE].

Schedule by program

You can select a show to Schedule it for watching.

1 Press the remote control's LIST button, and select the [GUIDE] tab on the left side of the screen.

2 Select the program you want.
If you want to watch a live broadcast, click the [WATCH] button.
In case of an upcoming program, click the [Reminder] button.

- Applies to digital broadcasting.

Manual Scheduling

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

1 Press the remote control's LIST button, and select the [TV SCHEDULER] tab on the left side of the screen.

2 Select the  at the top right.

3 Select the  at the top right.

4 Select [CREATE MANUALLY].

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

- Some models may not be supported.

HOW TO USE VARIETY OF CONTENTS

LG Content Store

You can quickly and conveniently browse for TV Shows, Movies, and more to watch immediately.

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

1 Press the ⌂ button on the remote control.

2 Launch the [LG Content Store] application.

- Depending on the model, the provided contents may differ or some features may be limited.
- Exercise caution when in used by children. Children may have access to inappropriate online content through this product.
  You can block inappropriate online content by restricting access to some apps.
  — Restrictions can be set in ⚙ **(Q. Settings)** → ⋮ → [Safety] → [Application Locks].

Recommended Content on the Main Screen

You can view recommendations for the most popular content and apps in each category on the [LG Content Store] main screen. Choose a piece of content to watch it, or choose an app to download it.

- Some models may not be supported.
- This feature is available only when the network is connected.

Creating LG Account

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

1. Press the **(Q. Settings)** button on the remote control and select → [General] → [Account Management].
2. Select [CREATE ACCOUNT]. Read and accept the Terms of Service.
3. Enter an ID and a password. Your ID must be your email address.
4. Enter your birthday.
5. Select [OK]. Go to your email to verify your email address. Please verify your email before the time expires.
6. Log in with your new account to start using the service.

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

Managing your LG Account

You can manage the information of your LG account.

1 Press the **(Q. Settings)** button on the remote control.

2 Go to → [General] → [Account Management] to log in.

Personal Information

You can view or edit your information of the account currently logged in.
You can change the password or press [EDIT] to edit your personal information.

- Some models may not be supported.

Search Content

[Search]

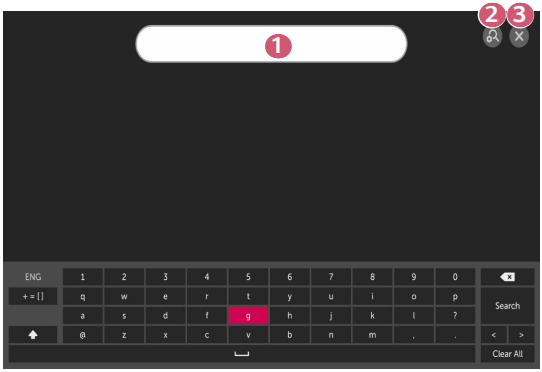
[Search] allows you to find and use a variety of content and information. You can search for files, including image, video, and audio files.

Searching for Content

1 Press the button on the remote control.

2 Launch .

3 Search for a variety of content and information by typing in your desired search terms.



1 Enter your desired search term.

2 Change the settings of the features provided by [Search].

3 Exit the search.

- Some apps provide a feature that lets you search within your projector. If you run a search in such apps, the search will be carried out in [Search].
- Search results may vary depending on the channel, region, network settings, and whether you have agreed to the terms and conditions.

Use App & Contents

Installing Apps

You can install various apps on your projector from the [LG Content Store].

1. Press the ⌂ button on the remote control.
2. Launch the [LG Content Store] application.
3. Select your desired category from the categories shown at the top of the screen. The list of available apps in the selected category will be shown.
4. Select an app to set up from the list.
5. Read the details of the app and then press [Install].
6. When the installation is complete, you can run the app immediately.

- Available categories may vary depending on the country or service status.
- If the storage on your projector is insufficient, you can install the apps by connecting an external memory device.
- Some USB storage devices may not be supported or may not work properly.
- USB drivers containing apps from other LG TVs or LG Projectors may not be used.
- You can delete apps you have downloaded in the [APPS] item's [My Apps].

Watching VOD Content

You can immediately enjoy dramas, movies, and more with real-time streaming.

1. Press the ⌂ button on the remote control.
2. Launch the [LG Content Store] application.
3. Select your desired category from the categories shown at the top of the screen, such as TV Shows and Movies. The list of available content in the selected category will be shown.
4. Select an item from the list.
5. You can play your desired content.
   An app may be required to play the content. If not installed, install the app to play the content.

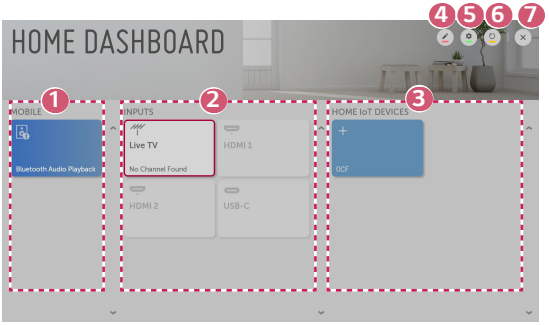
- Some models may not be supported.
- Available categories may vary depending on the country or service status.
- To see detailed information about the content, select the title in the bottom and the ⓘ area.

CONNECT OTHER DEVICES

Using [Home Dashboard]

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

- Press and hold the ⏎ button on your remote control.



1. You can check and select the connected smart device with the LG TV Plus. You can play sound from a smart device connected via Bluetooth.
2. You can check and select the external device connected through the external input port or network.
3. You can check and control the device connected via the Home IoT.

4 You can edit the name or change the icon of a device connected to the Inputs.
You can edit the name of a device connected to the [HOME IoT DEVICES] or [SHOW]/[HIDE] the device.
- Some devices cannot be edited.

5 [OCF Connection]: If you set it to be [On], any device that supports OCF will be linked too.
[Notice]: If you turn it [On], you can receive notifications about the status of the Home IoT Devices.
[Device Connector]: You can start the [Device Connector] app.

6 It refreshes the device list.

7 Exit the [Home Dashboard].

- The configurable items differ depending upon model.

Mobile Connection

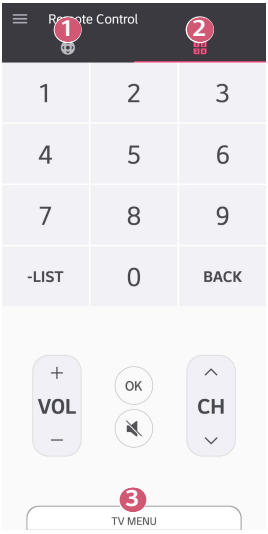
You can use a variety of features by connecting the projector to a smart device.

Connecting Your Smart Device to a Projector Using the LG TV Plus App

1. Download the LG TV Plus app from the app store of your smart device.
2. Connect your projector and smart device to the same Wi-Fi network.
3. Run the LG TV Plus app installed on your smart device.
4. Follow the instructions from LG TV Plus app to connect your smart device to the projector. You can check the connected smart device at [Home Dashboard] of the projector.

Controlling Your Projector with the LG TV Plus App

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



1. You can use the same functions as the Magic Lighting Remote's pointer and arrow keys.
2. You can change the channel, adjust the volume, or make other adjustments without using the remote control while watching a broadcast.
3. You can open an app installed on your projector or configure settings for functions such as switching input or adding favorite channels.

- Some controls may be limited in external input mode.
- The app's screen and functionality are subject to change without prior notice.
- Available features may differ depending on your country and OS.

Share Content with the LG TV Plus App

You can share and enjoy the content stored on your smart device through your projector.

1 Run the LG TV Plus app installed on your smart device.

2 Set up your desired content on your projector.

Matters That Require Special Attention during Content Share

- Check your network settings if the Content Share option does not work properly.
- May not work properly on a wireless network. It is recommended that you connect to a wired network.
- May not work properly depending upon the network environment.
- If multiple display devices are connected to one device, the content may not be played properly depending upon server performance.
- Supported features may vary depending on the version and manufacturer of your smart device's operating system.
- To watch the 1080p video through Content Share function, a router that uses 5 GHz frequency is required.
  If a 2.4 GHz router is used, the video may not play properly.
- Captions are only supported on some connected devices.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the projector, the supported file format may differ depending upon the connected device environment.
- If there are too many folders or files in a folder, it may not work properly.
- The information on the file imported from the connected device may not be displayed correctly.
- Depending upon the encoding, some streams may not play in Content Sharing mode.

Share Smartphone Screen

To see the Mobile Device's screen on the projector

1. Enable Screen Share mode on the mobile device.
2. Your projector will be displayed in the list of available devices.
3. Select your projector and request connection.
4. After the connection is established, the projector will display the screen of the connected device.

- For a reliable connection always keep the connected device to your projector updated to the latest OS version.
- A non-LGE device might not connect even when it is detected.
- Connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
- The response rate may vary, depending upon the user's environment.
- It differs among devices. For more information on the device you want to connect to, refer to its user guide.
- If connection fails repeatedly, turn off the projector and the device you want to connect to, then turn them back on and try again.

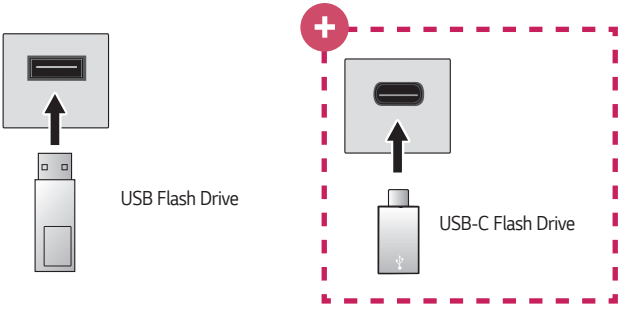
Playing Sound from a Smart Device through the projector's Speakers

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

1. Press the ⌂ button on the remote control and select [Home Dashboard].
2. In the [MOBILE] area, run the [Bluetooth Audio Playback].
3. Turn the smart device's Bluetooth on, then select the projector from the list of devices.
4. The projector will be connected to the smart device.

Connecting USB

Connect a USB storage device (USB HDD, USB Flash Drive) to the USB port on the projector to enjoy the content files stored on the USB storage device on your projector.



Models with USB-C support only.

- Please check whether USB 2.0 is supported before using USB-C storage devices.
- Certain functions may not work properly depending on USB-C to USB-A cable or gender used.

Tips for Using a USB storage device

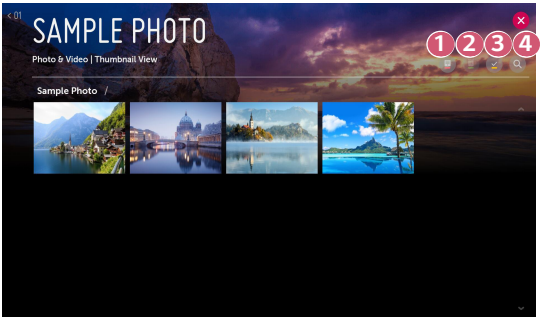
- A USB storage device that has a built-in automatic recognition program or uses its own driver might not be recognizable.
- Some USB storage devices may not be supported or may not work properly.
- If you use a USB extension cable, the USB storage device may not be recognized or may not work properly.
- Please use only USB storage devices formatted with the FAT32 or NTFS file system provided by Windows OS.
- It is recommended that you use an external USB HDD with a rated voltage of 5 V or less and a rated current of 500 mA or less.
- It is recommended that you use a USB hub or hard disk drive with a power supply. (If the power supplied is not sufficient, the USB storage device may not be detected properly.)
- It is recommended that you use a USB stick of 32 GB or less or a USB HDD of 2 TB or less.
- If a USB HDD with power-saving function does not work, turn the hard drive off and on again to make it work properly. See the owner's manual for the USB HDD for more information.
- Data on a USB storage device may be damaged, so it is recommended that you back up any important files. Users are responsible for data management. The manufacturer bears no responsibility.
- Press the button on the remote control. To remove the USB storage device, press the Eject ( ) button, which appears at the top when you focus on the USB storage device you want to remove. If you disconnect the USB storage device without selecting [EJECT], an error may occur in your projector or storage device.
- For more information on other connection methods, go to **(Q.Settings)** → → [Connection] → [Device Connector].
- Press and hold the button on your remote control. Select the connected USB from [Home Dashboard] → [INPUTS] and select the [FORMAT] button to format the USB storage device. After format, all the data of USB storage device will be deleted and formatted as NTFS or FAT32 file system.
- When connecting a USB storage device, a random file/folder can be created to provide Smart projector services such as the saving and retrieving of thumbnail images.

[Photo & Video]

Viewing Photos and Videos

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

1. Press the ⌂ button on your remote control.
2. Launch the [Photo & Video] application.
3. Select your desired storage device.
4. Select and view your desired photo or video.

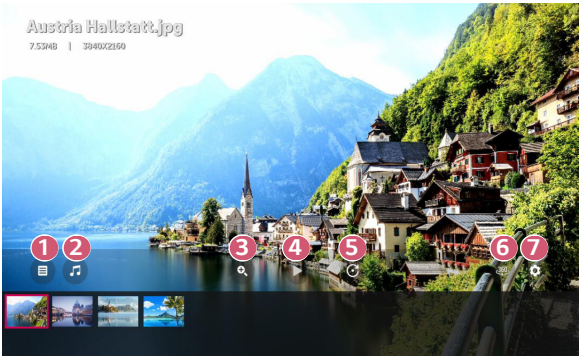


1. Select your desired type of content and viewing method.
2. Select and delete your desired content.
   (You cannot delete files that are shared from other devices.)
3. Select the content you want to play. You can only select the same type of content as you first selected.
4. Launch [Search].

- Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Photo Player

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



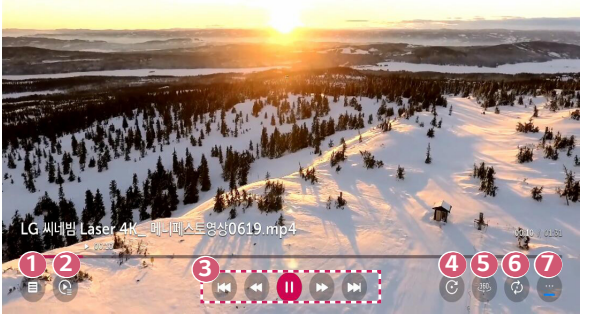
1. Returns to the entire content list.
2. You can play background music by running the music player.
3. You can zoom the photos in/out.
4. Starts the slide show.
5. Rotates photos.
6. 360-degree photos can be viewed in 360 degrees.
   - Using the 360° VR Play on a normal photo may distort the image.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

Supported Photo Files

File type	Format	Resolution
.jpeg **.jpg** **.jpe**	**JPEG**	Minimum: 64 x 64 Maximum Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H)
.png	**PNG**	Minimum: 64 x 64 Maximum: 5760 (W) x 5760 (H)
.bmp	**BMP**	Minimum: 64 x 64 Maximum: 1920 (W) x 1080 (H)

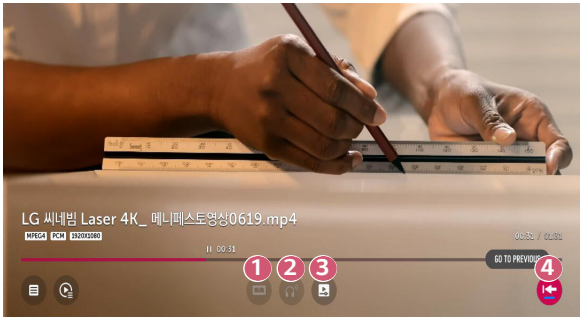
Video Player

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



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

Setting Additional Options



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

Supported Video Files

Maximum data transfer rate:

- Full HD video
  H.264 1920 x 1080@60P BP/MP/HP@L4.2 Maximum 40 Mbps
  HEVC 1920 x 1080@60P Main/Main10@L4.1 Maximum 40 Mbps
- ULTRA HD video (ULTRA HD model only)
  H.264 3840 × 2160@30P BP/MP/HP@L5.1 Maximum 50 Mbps
  HEVC 3840 × 2160@60P Main/Main10@L5.1 Maximum 60 Mbps

Supported external subtitles:

*.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX), *.dcs (DLP Cinema)

Supported embedded subtitles format:

- Matroska (mkv): Sub Station Alpha (SSA), Advanced Sub Station Alpha (ASS), SRT
- MP4 (mp4): Timed Text

Supported video codecs

Extension	Codec	
.asf .wmv	Video	VC-1 Advanced Profile (except for WMVA), VC-1 Simple and Main Profiles
	Audio	WMA Standard (except for WMA v1/ WMA Speech)
.avi	Video	Xvid (except for 3 warp-point GMC), H.264/AVC, Motion Jpeg, MPEG-4
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, LPCM, ADPCM, DTS
.mp4 .m4v .mov	Video	H.264/AVC, MPEG-4, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3), Dolby AC-4
.3gp .3g2	Video	H.264/AVC, MPEG-4
	Audio	AAC, AMR-NB, AMR-WB
.mkv	Video	MPEG-2, MPEG-4, H.264/AVC, VP8, VP9, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, PCM, DTS, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.ts .trp .tp .mts	Video	H.264/AVC, MPEG-2, HEVC
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM, Dolby AC-4
.mpg .mpeg .dat	Video	MPEG-1, MPEG-2
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

- Dolby AC-4: Some models may not be supported.

Cautions for Video Playback

- Some user-created subtitles may not work properly.
- A video file and its subtitle file must be located in the same folder. For subtitles to be displayed properly, make sure that the video file and the subtitle file have the same name.
- Subtitles on a Network Attached Storage (NAS) device may not be supported depending on the manufacturer and model.
- Streams that include Global Motion Compensation (GMC) and Quarterpel Motion Estimation (Qpel) are not supported.
- ULTRA HD video (ULTRA HD model only): 3840 x 2160, 4096 x 2160
  Some HEVC-encoded ULTRA HD videos other than the content officially provided by LG Electronics may not be played.
  Some codecs can be supported after a software upgrade.

Extension	Codec	
mkv/mp4/ts	Video	H.264/AVC, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC

- Only Window Media Audio V7 and later are supported.
- The AAC main profile is not supported.
- Video files created by some encoders may not be played.
- Video files in a different format than specified may not be played properly.
- Video files stored on a USB storage device that does not support High Speed may not be played properly.
- DTS codecs are supported only for playbacks of USB and HDMI video files.

[Music]

Playing Music

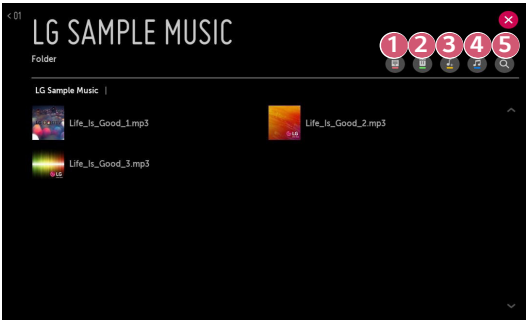
You can listen to music by using the [Music] app.

1 Press the ⌂ button on your remote control.

2 Launch the [Music] application.

3 Select your desired storage device.
You can select your desired songs from all of your storage devices and add them to [My Playlist].

4 Select your desired music content and enjoy it.



1 Select the desired type of content list.

2 Select and delete content.
(Files shared from other devices cannot be deleted.)

3 Select content and add it to [My Playlist].

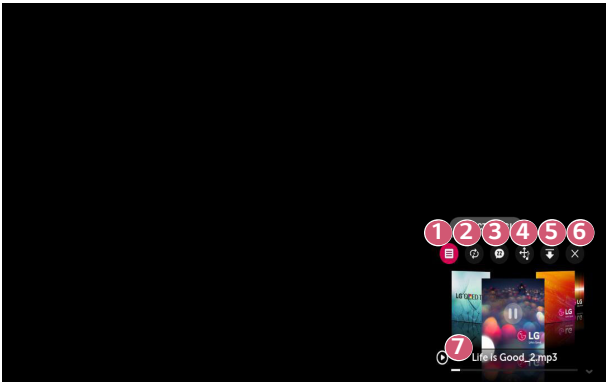
4 Open the music player.

5 Launch [SEARCH].

- If the number of all content is more than 5,000, some content may not be listed up.

Using the Music Player

The music player lets you choose music from other apps and use it as background music.



1. You can play music from the selected storage device.
2. You can set repeat playback and random playback.
3. The configurable items differ depending upon model.
   : You can turn the screen off while listening to music or display the music player in full-screen mode.
   : You can listen to music with the screen turned off.

4 You can change the position of the music player.

5 You can minimize the music player.

6 This feature closes the music player.

7 Lyrics are available for music files that provide them.
In some music files, you can choose a lyric section and move the playback position.
- The lyrics feature is only supported on some devices.
- The lyrics may not be displayed in sync depending on the lyrics data in the music file.

- Reopen your music player by pressing the volume buttons on your remote control.
- You may not be able to use the music player for some features.

Audio Format

File Format	Item	Info
.mp3	Bit rate	32 kbps ~ 320 kbps
	Sample freq.	16 kHz ~ 48 kHz
	Support	MPEG-1, MPEG-2
	Channels	mono, stereo
.wav	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	PCM
	Channels	mono, stereo
.ogg	Bit rate	64 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	Vorbis
	Channels	mono, stereo
.wma	Bit rate	128 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	WMA
	Channels	up to 6 ch
.flac	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	FLAC
	Channels	mono, stereo

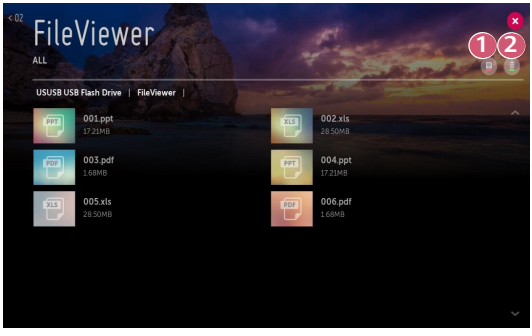
- The number of supported channels may vary depending upon the sample frequency.

[File Viewer]

Viewing Files

You can see document files stored on a connected device.

1. Press the ⌂ button on your remote control.
2. Launch the [File Viewer] application.
3. Select your desired storage device.
4. Select and view your desired document file.



1. Select your desired type of content and viewing method.
2. Select and delete your desired content.
   (You cannot delete files that are shared from other devices.)

- Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Browsing File Viewer



1. Returns to the entire content list.
2. Moves to the page you specify.
3. Sets the slide show.
4. Enlarges or reduces the document.
5. Starts the slide show.
6. Rotates the document.
7. Sets up the options of File Viewer.

Supported File Formats

File Extension	Supported Version
XLS, XLSX	Microsoft Office 97/2000/2002/2003/2007/2010/ 2013/2016 version
DOC, DOCX	
PPT, PPTX	
TXT	-
PDF	Adobe PDF 1.0/1.1/1.2/1.3/1.4 version
HWP	Hangul 2007 version

- File Viewer realigns a document, so it may look different from what is displayed on a PC.
- For documents that include images, the resolution may look lower during the realigning process.
- If the document is large or has many pages, it may take longer to load.
- Unsupported fonts may be replaced by other fonts.
- The file viewer may not open for Office documents that contain many high resolution images. In that case, reduce the image file size, save it on a USB storage device and run the file viewer again or connect your PC to the projector and open the file on your PC.

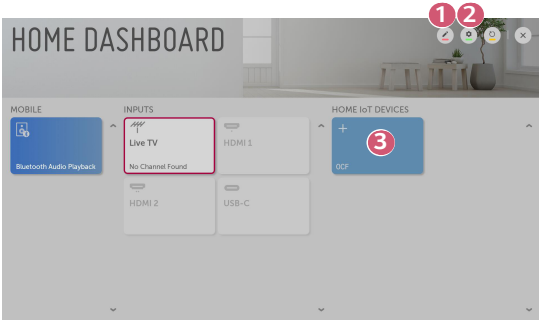
Using Home IoT Devices

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

1 Press the ⌂ button on the remote control and select [Home Dashboard].

2 Press the ⚙ at the top right to select the [OCF Connection].

- To register your own OCF (Open Connectivity Foundation) supporting device, select the OCF guide to change the settings as directed.



1 You can edit the name of a device connected to the [Home IoT Devices] or [SHOW]/[HIDE] the device.

2 [OCF Connection]: If you set it to be [On], any device that supports OCF will be linked too.
[Notice]: If you turn it [On], you can receive notifications about the status of the Home IoT Devices.
[Device Connector]: You can start the [Device Connector] app.

3 You can connect your own OCF (Open Connectivity Foundation) supporting device to the projector to use.

- Only some of the OCF (Open Connectivity Foundation) supporting device are supported, and we plan to continue to add support for more devices.
- When resetting the projector, it also requires resetting the OCF (Open Connectivity Foundation) supporting device connected to the set.

Share Computer Content

What Is Content Share?

Content Share allows you to enjoy videos, music and photos saved on your PC.

Play the content with sharing software on the PC

If you have Windows 7 or later installed on your PC, you can play music, video, photos, etc. on your projector without needing to install a separate program.

1. Connect you projector and PC to the same network. PCs installed with Windows 7 or later also need to be connected to a network.
2. Right-click the desired music/video/photo file you wish to play, then select your model using the “Play To” feature built into Windows 7 or later to play the file.
   To play on other devices like your mobile phone, refer to the relevant user guide.

- Even when multiple projectors or devices are connected, the selected file is played through only one device. The playback rate may vary depending on the network connection.

Use the SmartShare PC Software to play the content saved on the PC

You can use SmartShare PC Software to connect the music/videos/photos saved on the PC to your home network and play them on your projector.

1. Configure the projector and PC installed with SmartShare on the same network.
   - The SmartShare service is only available when the projector and server PC are connected to a single router.
2. Download and install SmartShare PC Software from the LG website (www.lg.com). Before installation, exit all programs running on the PC, such as a firewall or an anti-virus software.
3. Run SmartShare PC Software and configure the share settings.
4. Shared videos and photos are played from the [Photo & Video] app on the projector. Shared music files are played from the [Music] app on the projector.

- The server should be running in order to watch the shared file on your projector.
- For information on how to use the SmartShare PC Software, refer to the software's help section.

Matters that require special attention during Content Share

- Check your network settings if the Content Share option does not work properly.
- May not work properly on a wireless network. It is recommended that you connect to a wired network.
- If multiple display devices are connected to one device, the content may not be played properly depending on server performance.
- May not work properly depending on the network environment.
- To watch the 1080p video through Content Share function, a router that uses 5 GHz frequency is required.
  If a 2.4 GHz router is used, the video may not play properly.
- The Content Share function may not be supported for a router that does not support multi-cast. For more information, refer to the user guide that came with your router or contact the manufacturer.
- Captions are only supported on some connected devices.
- SmartShare PC Software is recommended for reading captions.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the projector, the supported file format may differ depending on the connected device environment.
- If there are too many folders or files in a folder, it may not work properly.
- The information on the file imported from the connected device may not be displayed correctly.
- Depending upon the encoding, some streams may not play in Content Sharing mode.

Share Computer Screen

To see the PC screen on the projector

Connect wireless

1 Enable Screen Share mode on the PC. Your projector will be displayed in the list of available devices.

2 Select your projector and request connection.

3 After the connection is established, the projector will display the screen of the connected device.

- Always update your device to be connected to your projector to the latest OS version for a reliable connection.
- It is recommended that you use this function at close range.
- Though it can be connected without a wireless router, connecting your device to a 5 GHz router is recommended because the performance can be affected by the surrounding wireless environment.
- The response rate may vary, depending upon the user's environment.
- It's different from Windows version. For more information on the device you want to connect to, refer to its user guide.
- If connection fails repeatedly, turn off the projector and the device you want to connect to, then turn them back on and try again.

Connect wired

Connect the PC with projector by HDMI® cable.

BENEFITS OF SMART PROJECTOR

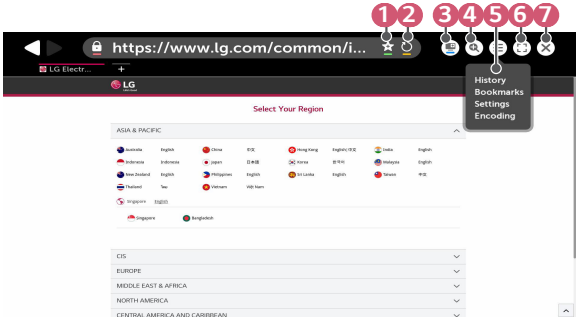
Enjoying Internet

Using the [Web Browser]

You can enter the website when you input the web address on the URL bar. If you input the search word, it will find the information about search word base on the search engine.

1 Press the ⌂ button on the remote control.

2 Launch the [Web Browser] application.



1 You can add or delete the current page in [Bookmarks].

2 Reloads the current page.

3 You can turn on/off Mini TV.

4 Zooms in or out of the screen.

5 [History]: You can open or delete the history list.
[Bookmarks]: You can open or delete the bookmark list.
[Settings]: You can configure simple settings for the browser.
[Encoding]: You can change the language when the content is not properly displayed on the web page.

6 You can use the browser in full screen mode. To go back to the original screen, use the Remote Control to move the pointer to the top of the screen. [Exit Full Screen] will display.

7 Exit the [Web Browser].

- The [Web Browser] supports only HTML5 media, it does not support Flash Plug-in.
- The [Web Browser] does not support plug-in installation.
- On the [Web Browser], it may not be possible to play media files in formats other than JPEG/PNG/GIF
- The [Web Browser] may be closed if there is insufficient memory space.
- On the [Web Browser], only fonts embedded in the projector are used. Therefore, text may be displayed in different fonts than the ones on the PC.
- The [Web Browser] does not support file and font downloads.
- Since the [Web Browser] is a projector browser, it may function differently than PC browsers.
- Some of the content may not play properly.
- Exercise caution when in used by children. Children may have access to inappropriate online content through this product.
  You can block inappropriate online content by restricting access to some apps. Configure the settings in **(Q. Settings)** → → [Safety] → [Application Locks].

Setting the Web Browser

Press (≡) at the top of the screen and select the [Settings].

- [On Startup]
  You can set the startup page of the browser to [Open the New Tab page]/[Continue where I left off]/[Home page:].
- [Search Engines]
  You can select the default search engine.
  — Search engine settings may be subject to change without notice based on the supplier's circumstances.
- [Recommended Sites]
  You can change the settings so that [Recommended Sites] are displayed.
  The [Recommended Sites] and [Most Visited Sites] are displayed on a new tab.
  The [Recommended Sites] may not be available in your country.
  To hide the [Recommended Sites], choose [Off] in [Settings].
- [Always Show Bookmarks Bar]
  You can change the settings so that the [Bookmarks] bar is always displayed.
- [Private Browsing]
  You can configure the settings not to leave records after searching.
- [Site Filtering]
  To use the [Site Filtering] function, you should enter the projector password.
  The initial password is set as "0000".
  — [Approved Sites]: You can configure the settings to open the previously registered web pages only.
  — [Blocked Sites]: You can configure the settings to block specific websites.
- [Pop-up Blocker]
  You can block pop-ups using the settings.
- [Do Not Track]
  You can request your visit history not be recorded in the server.
- [Adaptive Streaming using JavaScript]
  If this is set to [Off], the resolution of the videos played in [Web Browser] is limited to 720p.

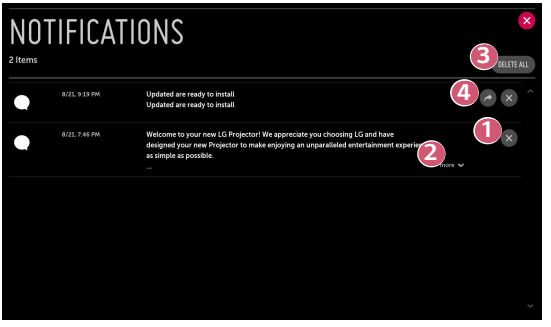
[Notifications]

Using [Notifications]

You can view all notifications from projector apps and LG service at the same time. You can view and delete each notification message, and directly move to the app or website using notifications that support shortcuts.

1 Press the **(Q.Settings)** button on the remote control.

2 Go to → [General] → [About This Projector] and select [Notifications].



1. You can delete notifications.
2. For notifications with long content, press [more] to open them in full view.
3. You can delete all notifications.
4. You can launch the APP or move to URL.

TOUR LIST OF SETTINGS

The options may differ depending on the model.

Quick Settings

To use Setting function quickly

Press the **(Q. Settings)** button on the remote control.
Displays a set of light-weight controls quickly and simply such as [Picture Mode], [Aspect Ratio], [Sound Out] and so on.



1. Closes the Quick settings.
2. You can set the [Picture Mode].
3. You can set the [Aspect Ratio].
4. You can choose the [Sound Out].
5. You can set the [Sleep Timer].
6. You can set the [PJT Mode].
7. Move to the [Connection] screen.
8. You can set more options.

- Press and hold the **Wheel (OK)** on the remote control during configuration to move to the corresponding menu.

[Picture] Settings

[Picture Mode]

(Q. Settings) → ⋮ → [Picture] → [Picture Mode Settings] → [Picture Mode]

Select the picture mode that is best suited to your viewing environment, preferences or video type. The configurable items differ depending upon model.

Depending upon the input signal, the available picture modes may be different.

When watching online service content, the Picture Mode may be changed to match the content being shown.

- [Vivid]
  Sharpens the image by increasing the contrast, brightness, and sharpness.
- [Standard]
  Displays the picture with normal contrast, brightness, and sharpness levels.
- [Cinema]
  Optimizes the screen for movies.
- [Sports]/[Soccer]
  Optimizes the screen for sports games. Sharpens the image of rapid movements such as kicking or throwing a ball.
  — The name of the sport may differ depending on region.
- [Game]
  Optimizes the screen for gameplay.
- [HDR Effect]
  This feature lets you enjoy a more dynamic, clearer image by correcting the light and dark areas of the display. This feature provides a realistic image, even when the source image's gradation level is high.
  If you set [Picture Mode] to [HDR Effect], you will not be able to use some of [Picture Mode Settings].
  — This feature is available on certain models only.
- [Expert (Bright Room)]/[Expert (Dark Room)]
  Allows an expert, or anyone who loves picture quality, to tune to the best picture quality.

[Picture Mode Settings]

(Q. Settings) → ⋮ → [Picture] → [Picture Mode Settings]

This feature allows you to adjust the selected picture mode in detail.

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

- [Contrast]
  Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast.
- [Brightness]
  Adjusts the overall screen brightness. The closer to 100, the brighter the screen.
- [Sharpness]
  Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image.
- [Color]
  Tones down or up the colors displayed on the screen. The closer to 100, the deeper the color.
- [Tint]
  Adjusts the color balance between red and green displayed on the screen. The closer to Red 50, the more red the color will be. The closer to Green 50, the more green the color will be.
- [Color Temperature]
  Adjusts the color temperature cool/medium/warm/natural.
  — The settings you specify only applies to the currently selected input mode. To apply your current picture settings to all input modes, select [Apply to All Inputs].
- [Apply to All Inputs]
  Save the current customized setting values to currently selected picture mode for all inputs.
- [Reset]
  This option will reset the picture settings.
  — You can reset the picture modes separately. Select the picture mode you wish to reset and enable it.

[Advanced Controls]/[Expert Controls]

(Q. Settings) → ⋮ → [Picture] → [Picture Mode Settings] → [Advanced Controls]

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

The configurable items differ depending upon model.

- [Dynamic Contrast]
  Corrects the difference between the bright and dark areas of the screen for optimal results depending on the brightness of the picture.
- [Dynamic Color]
  Adjusts the color and saturation of the picture to make the image more colorful and lively.
- [Preferred Color]
  Adjusts the colors of skin, grass and sky to your personal preferences.
- [Color Gamut]
  Selects the range of colors to display.
- [Super Resolution]
  Adjusts the resolution to make dim and blurred images clearer.
- [Gamma]
  Adjusts the medium brightness of the picture.

(Q. Settings) → ⋮ → [Picture] → [Picture Mode Settings] → [Expert Controls]

If you set the picture mode to Expert, you can set the following functions.

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

The configurable items differ depending upon model.

- [Dynamic Contrast]
  Corrects the difference between the bright and dark areas of the screen for optimal results depending on the brightness of the picture.
- [Super Resolution]
  Adjusts the resolution to make dim and blurred images clearer.
- [Color Gamut]
  Selects the range of colors to display.
- [Color Filter]
  Filters a specific color spectrum in RGB colors to fine-tune color saturation and hue accurately.
- [Gamma]
  Adjusts the medium brightness of the picture.
- [White Balance]
  Adjusts the overall color temperature of the screen as desired.
- [Color Management System]
  This is used when experts control it by using a test pattern. You can control it by selecting areas of six colors ([Red]/[Green]/[Blue]/[Cyan]/[Magenta]/[Yellow]). For normal images, adjustments may not result in noticeable color changes.

[Picture Options]

(Q. Settings) → ⋮ → [Picture] → [Picture Mode Settings] → [Picture Options]

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

The configurable items differ depending upon model.

- [Noise Reduction]
  Removes small dots that stand out so as to make the image clean.
- [MPEG Noise Reduction]
  Reduces the noise produced during the creation of digital video signals.
- [Smooth Gradation]
  It reduces jaggies in the picture for a smooth picture.
- [Black Level]
  Compensates the screen brightness and contrast by adjusting the darkness of the screen.
- [Real Cinema]
  Provides a cinema-like experience.
- [TruMotion]
  This feature is available on certain models only.
  Optimizes the image quality of fast-moving pictures.
  - [Off]: Turns off the [TruMotion].
  - [Smooth]: Softens fast-moving pictures.
  - [Clear]: Makes fast-moving pictures clearer.
  - [User]: Sets [TruMotion] manually.
    - [De-Judder]: Adjusts juddering on the screen.
    - [De-Blur]: Reduces the blurring effects of motion.
    - The advanced settings can be changed only in [User] mode.

[Aspect Ratio]

(Q. Settings) → ⋮ → [Picture] → [Aspect Ratio Settings] → [Aspect Ratio]

Depending upon the input signal, the available screen sizes may be different.
The configurable items differ depending upon model.

- [16:9]
  Displays an aspect ratio of 16:9.
- [Original]
  Changes the aspect ratio to 4:3 or 16:9 depending upon the input video signal.
- [4:3]
  Displays an aspect ratio of 4:3.
- [Vertical Zoom]
  You can adjust the vertical dimension of the screen and align the screen vertically by using [Adjust Zoom Ratio] and [Adjust Screen Position].
- [All-Direction Zoom]
  You can adjust the horizontal/vertical/diagonal dimensions of the screen and align the screen horizontally/vertically by using [Adjust Zoom Ratio] and [Adjust Screen Position].

[Just Scan]

(Q. Settings) → ⋮ → [Picture] → [Aspect Ratio Settings] → [Just Scan]

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

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

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

[Energy Saving]

(Q. Settings) → ⋮ → [Picture] → [Energy Saving]

Reduces power consumption by adjusting peak screen brightness.

- [Minimum]/[Medium]/[Maximum]
  Applies the pre-set [Energy Saving] mode.

[Picture Test]

(Q. Settings) → ⋮ → [Picture] → [Picture Test]

First of all, start the picture test to see whether the video signal output is normal, and then select whether there is an error.

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

[HDMI ULTRA HD Deep Color]

(Q. Settings) → ⋮ → [Picture] → [Additional Settings] → [HDMI ULTRA HD Deep Color]

If the device connected to the HDMI Input Port also supports ULTRA HD 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 Projector's ULTRA HD Deep Color setting to [Off].

- Supported Display Resolution
  - On: Supports 4K@60 Hz (4:4:4, 4:2:2, and 4:2:0)
  - Off: Supports 4K@60 Hz (4:2:0)

4K@50/60 Hz Supported Format

Resolution	Frame rate (Hz)	Color Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 x 2160p 4096 x 2160p	50 59.94 60	YCbCr 4:2:0	YCbCr 4:2:0[1)]	
		-	-	YCbCr 4:2:2[1)]
		YCbCr 4:4:4[1)]	-	-
		RGB 4:4:4[1)]	-	-
1) Supported when [HDMI ULTRA HD Deep Color] is set to [On].				

- Settings are changeable only for the HDMI input currently being used.
- You can specify a different setting for each HDMI port.
- Some models may not be supported.

[Instant Game Response]

(Q.Settings) → ⋮ → [Picture] → [Additional Settings] → [Instant Game Response]

Set the HDMI port connected to the device to be [On] to enjoy games with the optimal video for the game.

However, if the device doesn't support it, it may not work properly.

- Set the [HDMI ULTRA HD Deep Color] feature to [On] for the HDMI terminal connected to the gaming device to enable [Instant Game Response].
- It works only when the **(Q.Settings)** → ⋮ → [Sound] → [Sound Out] is [Internal Projector Speaker]/[Wired Headphones]/[Internal Projector Speaker + Wired Headphones].
  — The configurable items differ depending upon model.
- When the [Instant Game Response] is launched, the video may blink temporarily.
- If you turn this feature [On], you cannot change some video settings items.

[Sound] Settings

[Adaptive Sound Control]

(Q. Settings) → ⋮ → [Sound] → [Adaptive Sound Control]

Automatically optimize sound based on content type.

This setting is only available for Internal Projector Speaker.

In the list, click on to enable this mode.

- If this feature is turned on, you can't adjust the [Sound Mode] manually.
- Some models may not be supported.

[Sound Mode]

(Q. Settings) → ⋮ → [Sound] → [Sound Mode Settings] → [Sound Mode]

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

- [Standard]
  Optimizes the sound for all types of content.
- [Cinema]
  Optimizes the sound for cinemas.
- [Clear Voice III]
  Boosts voice clarity.
- [Sports]/[Soccer]
  Optimizes the sound for sports.
  — The name of the sport may differ depending on region.
- [Music]
  Optimizes the sound for music.
- [Game]
  Optimizes the sound for gameplay.

[Sound Mode Settings]

(Q. Settings) → ⋮ → [Sound] → [Sound Mode Settings]

The configurable items differ depending upon model.

- [Sound Mode]
  You can select the most suitable sound mode for each genre.
- [Balance]
  You can adjust the volume of the left and right speakers.
- [ULTRA Surround]
  Enjoy an immersive soundscape with the virtual multi-channel surround sound effect.
  — The option can be enabled if [Sound Mode] is set to [Standard].
- [Equalizer]
  You can set the desired sound by adjusting the equalizer directly.
  (100 Hz/300 Hz/1 kHz/3 kHz/10 kHz)
  — The option can be enabled if [Sound Mode] is set to [Standard].
- [Reset]
  You can reset the sound effect settings.
  — The option can be enabled if [Sound Mode] is set to [Standard].

[Sound Out]

The configurable items differ depending upon model.

- When [Instant Game Response] is set to [On], audio delays may occur if you set [Sound Out] to [Bluetooth]/[Optical]/[HDMI ARC].
  Switch to [Internal Projector Speaker] or change **(Q. Settings)** → → [Sound] → [HDMI Input Audio Format] to [PCM].

Playing audio through the projector's internal speakers

(Q. Settings) → → [Sound] → [Sound Out] → [Internal Projector Speaker]
Audio is played through the projector's internal speakers.

Connecting and Using an Audio Device Supporting Optical

(Q. Settings) → → [Sound] → [Sound Out] → [Optical]
You can connect an audio device that supports [Optical] to the optical digital audio output port to enjoy your projector's sound in richer quality and greater convenience.

- Only available for models with an optical digital port.
- You can use the projector remote control to adjust the volume of the connected device.
- You can set [Digital Sound Out] ([Auto]/[Pass Through]/[PCM]) and [LG Sound Sync] ([On]/[Off]).

Hearing Sound through an External Audio Device Connected via a HDMI (ARC) Port

(Q. Settings) → → [Sound] → [Sound Out] → [HDMI ARC]
Sound from the projector can be output through an external audio device connected via a HDMI (ARC) port.

- Select [HDMI ARC] to automatically turn on SIMPLINK. Once SIMPLINK is turned off, the output speaker settings automatically revert to the default settings for uninterrupted audio output.
- You can set [Digital Sound Out] ([Auto]/[Pass Through]/[PCM]).

Configuring digital sound output settings

(Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Optical]/[HDMI ARC] → [Digital Sound Out]

You can configure the [Digital Sound Out] settings.

- These settings are available only when an [Optical]/[HDMI ARC] is selected.
- When [Pass Through] is enabled, sound effects may not be output.
- The codec output with a device may differ from input signals.

	Sound Input	Digital Sound Output
[PCM]	All	PCM
[Auto] / [Pass Through]	MPEG	PCM
	Dolby Digital	Dolby Digital
	Dolby Digital Plus / Atmos	(Optical) Dolby Digital (HDMI ARC) Dolby Digital Plus / Atmos
	Dolby TrueHD (HDMI only)	(Optical) Dolby Digital (HDMI ARC) Dolby Digital Plus / Atmos (HDMI ARC eARC On) TrueHD[1)]
	HE-AAC	Dolby Digital
	DTS	DTS
	DTS Express	DTS
	DTS-HD MA	(Optical / HDMI ARC) DTS (HDMI ARC eARC On) DTS-HD[1)] / DTS

1) Supported only when [Digital Sound Out] is set to [Pass Through], and the input is set to the HDMI.

- Dolby TrueHD, eARC: Some models may not be supported.

Connecting and Using an Audio Device Supporting LG Sound Sync

(Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Optical] → [LG Sound Sync]

You can connect an audio device that supports [LG Sound Sync] to the optical digital audio output port to enjoy your projector's sound in richer quality and greater convenience.

- Only available for models with an optical digital port.
- You can use the projector remote control to adjust the volume of the connected device.

Connecting and Using an Audio Device Wirelessly

(Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Bluetooth]

You can connect wirelessly a Bluetooth audio device or a Bluetooth headset to enjoy your projector's sound in richer quality and greater convenience.

- If you have recently connected device that the sound bar supports LG Sound Sync, this feature automatically tries connecting to that device.
- In some devices, this feature automatically tries connecting to the recently connected device when the projector is turned on.
- We recommend that you connect an LG audio device that supports LG Sound Sync, using LG TV mode or LG Sound Sync mode on device.
- Some models may not be supported.
- Press [DEVICE SELECTION] to view the connected devices or the devices that can be connected to connect any one of them.
- You can use the projector remote control to adjust the volume of some Bluetooth devices.
- If the device fails to connect, check the power of the device to connect to and check if the audio device is working properly.
- Depending on the type of the Bluetooth device, the device may not connect correctly or an abnormal behavior may occur such as unsynchronized video and audio.
- Sound may stutter or sound quality may be reduced if:
  - the Bluetooth device is too far from the projector;
  - there are obstacles between the Bluetooth device and the projector; or
  - used together with radio equipment such as a microwave oven or wireless LAN.
- If the [Picture Mode] is set to [Game] and [Sound Out] is set to [Bluetooth], [Picture Mode] changes to [Standard].
- Using Bluetooth speakers that support Dual mode/Double mode/2-Channel mode together with the Magic Lighting Remote may limit the speakers' usability.

Using Wired Headphones

(Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Wired Headphones]
Select [Wired Headphones] to optimize audio output according to the device connected.

- Only available for models with a Wired Headphones port.
- Some models may not be supported.
- If you connect the wired headphones while the projector is powered on, it automatically detects the wired headphones and redirects audio through them.

Playing audio through the projector's internal speakers and external audio device simultaneously

Audio can be played through multiple devices simultaneously.

- Using [Internal Projector Speaker + Optical]
  (Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Internal Projector Speaker + Optical]
  - Audio is played through the projector's built-in speakers and the audio device connected to the digital optical audio output port simultaneously.
  - Only available for models with an optical digital port.
- Using [Internal Projector Speaker + Wired Headphones]
  (Q. Settings) → ⋮ → [Sound] → [Sound Out] → [Internal Projector Speaker + Wired Headphones]
  Audio is played through the projector's internal speakers and the [Wired Headphones] simultaneously.
  - If you connect the wired headphones while the projector is powered on, it automatically detects the wired headphones and redirects audio through them.
  - Only available for models with a Wired Headphones port.
  - Some models may not be supported.

[HDMI Input Audio Format]

(Q. Settings) → ⋮ → [Sound] → [HDMI Input Audio Format]
You can set the audio format for each HDMI input. When the voice delivered through the HDMI port is not synchronized, set it to [PCM].

[Auto Volume]

(Q. Settings) → ⋮ → [Sound] → [Auto Volume]
Click [On] to adjust the volume automatically for different broadcasting companies so you can always listen to channels at the desired volume, even after switching the channels.

[AV Sync Adjustment]

(Q. Settings) → ⋮ → [Sound] → [AV Sync Adjustment]
Adjusts the synchronization of the sound from the speaker that is working.
The closer to (+), the slower the audio output.
If you select the [Bypass], Outputs the broadcast signals or the sound from external devices without any audio delay. The audio may be output before the video because of the time the projector takes to process the video input.

[Sound Test]

(Q. Settings) → ⋮ → [Sound] → [Sound Test]
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.

- Sound test is possible by Internal projector Speaker only.

[Channels] Settings

[Auto Tuning]

(Q. Settings) → ⋮ → [Channels] → [Channel Tuning] → [Auto Tuning]
This function automatically searches and remembers channels that are available for viewing.

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

[Manual Tuning]

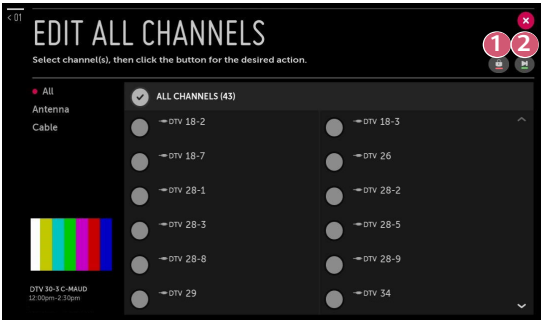
(Q. Settings) → ⋮ → [Channels] → [Channel Tuning] → [Manual Tuning]
You can manually tune and save channels.
You can check the signal strength of digital broadcasting.

[Channel Manager]

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

Edit All Channels List

(Q. Settings) → ⋮ → [Channels] → [Channel Manager] → [Edit All Channels]
You can lock or unlock the selected channels from all the stored channels, or you can set them to be skipped when switching channels.



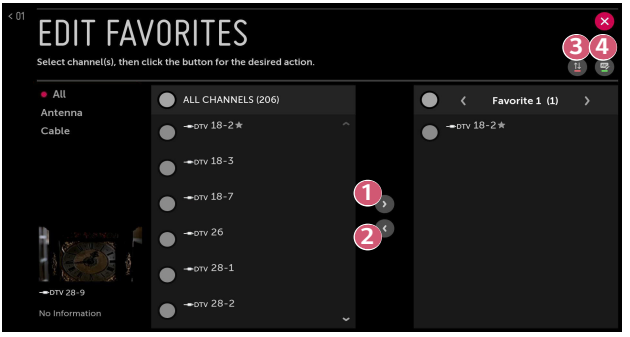
1 Lock the selected channels or unlock the locked channels.

2 Set the selected channels to be skipped when switching channels, or disable the skipping option of the channels previously set to be skipped.

- Available features may vary depending on the broadcast signal.

Edit Favorite Channels List

(Q. Settings) → ⋮ → [Channels] → [Channel Manager] → [Edit Favorites]
You can add/delete desired channels to/from the favorite channels, change their positions, etc.



1. Select the desired channels from the all channels list and press the button to add them to the favorite channels list.
2. Delete the selected channels from the favorite channels list.
3. Select one or more channels in the Preferred Channels list, press the button, and then position to move it to. The selected will move to the position you selected.
4. Change the name of the favorite channels list.

- If you have set up the Internet channels, you can also lock them, set them to be skipped, or add them to the favorite channels list.
  — Some models may not be supported.

[Multi Audio]/[Audio Language]

(Q. Settings) → ⋮ → [Channels] → [Multi Audio]/[Audio Language]
Sets the options related to the audio.

- Available settings may differ by the program.

[LG Channels]

(Q. Settings) → ⋮ → [Channels] → [LG Channels]
You can watch real-time broadcasts through this service over the internet.
You can see information on new internet channels or manage the channels you like in [LG Channels].

- While watching an internet channel, click the ••• button on the remote control. You can start the [LG Channels].
- You can use the 'Interactive Channel' service that enables users to conveniently enjoy content related to the current channel without having to switch apps. You can use the 'Interactive Channel' by pushing the buttons on your remote control or clicking your screen according to the instructions that appear on the internet channel screen.
- Some models may not be supported.
- Some internet channels may not support this service.
- Some content can cause a switch from [TV] app to a different app.
- The projector should be connected to a network with internet access.
- You cannot receive the service if you change the [LG Services Country].
- You must agree to viewing information and personalized advertising user agreements to use this service.
- Internet Channel services may be stopped or changed without prior notice by the broadcasting company.

[Connection]

[Projector Name]

(Q. Settings) → ⋮ → [Connection] → [Projector Name]

You can use the screen keyboard to set the name for the smart projector to be used on the network.

- Up to 25 characters can be entered using the English alphabet.

[Wired Connection (Ethernet)]

(Q. Settings) → ⋮ → [Connection] → [Wired Connection (Ethernet)]

The projector will be connected automatically to the network if a cable connection is established.

To change network connection settings, select [Edit] in Network Settings.

- The IPv6 setup does not support [Edit].

[Wi-Fi Connection]

(Q. Settings) → ⋮ → [Connection] → [Wi-Fi Connection]

If you have set up the projector for a wireless network, you can check and connect to the available wireless Internet networks.

- [Add a Hidden Wireless Network]
  If you input the name of network directly, you can add a wireless network.
- [Connect via WPS PBC]
  Connects easily when the button of a wireless AP supporting PBC is pressed.
- [Connect via WPS PIN]
  Connects easily when the PIN of the wireless AP that you wish to connect to is entered in to the AP configuration webpage.
- [Advanced Wi-Fi Settings]
  If you input the information of network directly, you can enter a wireless network.
  — The IPv6 setup does not support [Edit].

[Device Connector]

(Q.Settings) → ⋮ → [Connection] → [Device Connector]

This feature is to enable you to easily set the connection between the projector and external device.

Follow instructions in [Device Connector].

[Mobile Projector On]

(Q. Settings) → ⋮ → [Connection] → [Mobile Projector On]

If [Turn on via Wi-Fi] or [Turn on via Bluetooth] is set to [On], you can turn on your projector using an application that supports [Mobile Projector On] or see the screen of the application on your projector.

- The [Turn on via Wi-Fi] feature must be used in an app on a smart device that supports the feature.
- The [Turn on via Bluetooth] feature can only be used with certain LG Electronics smartphones.
- The projector should be connected to a network.
- The projector must be plugged in.
- The projector and the device to be used should be connected to the same network.
- To connect for the first time, make sure the device to be used is ready to connect.
- Some models may not be supported.

[Screen Share Settings]

(Q.Settings) → ⋮ → [Connection] → [Screen Share Settings]
You can press the [DELETE PAIRING HISTORY] to delete the connections of the devices connected the projector by the Screen Share.

[HDMI Device Settings]

(Q.Settings) → ⋮ → [Connection] → [HDMI Device Settings]
You can link information of devices connected to the projector via the HDMI® cable to set the devices to be controlled by the projector remote control.
The configurable items differ depending upon model.

- [Auto Device Detection]
  It automatically sets to enable you to control the devices connected via the HDMI with the Magic Lighting Remote.
- [SIMPLINK (HDMI-CEC)]
  You can conveniently control and use various multimedia devices connected through HDMI with the projector remote control.
- [Auto Power Sync]
  If [Auto Power Sync] is set to [On], turning on a SIMPLINK-linked device will turn the projector on. When you turn off the projector, the device will also be turned off.

[General]

[Language]

(Q. Settings) → ⋮ → [General] → [Language]

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

- [Menu Language]
  You can select one of the menu languages to be displayed on the screen.
  The language for the speech recognition will be automatically set to selected language for the menu.
  — The speech recognition is only applied to some models.
- [Audio Language]
  You can choose the language you want when watching a digital broadcasting program, which includes multiple audio languages.
  For programs that do not support multiple languages, the default will be used.
  — Applies to digital broadcasting.
- [Keyboard Languages]
  Select the language to use the on-screen keyboard.

[Location]

(Q. Settings) → ⋮ → [General] → [Location]

You can change the location setting of your smart projector.

You must set the country manually when you are not connected to the network.

The configurable items differ depending upon the country.

- [Service Area Zip Code]
  This function is used to set the broadcast location of the projector by entering your zip code.
- [LG Services Country]
  If you don't set the [Set Automatically], you can select the country manually.

[Time & Date]

(Q. Settings) → ⋮ → [General] → [Time & Date]

You can check or change the time while watching the projector.

- [Set Automatically]
  Automatically sets the time displayed on the projector screen to the time of the digital broadcast sent by the broadcasting company.
- [Time]/[Date]/[Time Zone]
  You can set the time and date manually if the automatically set current time is incorrect.

[Sleep Timer]

(Q. Settings) → ⋮ → [General] → [Timers] → [Sleep Timer]

Sets the projector to turn off at a specified time.

If you want to disable [Sleep Timer], select [Off].

[Timer Power On]/[Timer Power Off]

(Q. Settings) → ⋮ → [General] → [Timers] → [Timer Power On]/[Timer Power Off]

You can set the power on/off time for the projector.

Select [Off] if you are not going to set [Timer Power On]/[Timer Power Off].

- To use [Timer Power On]/[Timer Power Off], set the time correctly.

[Auto Off]

(Q. Settings) → ⋮ → [General] → [Timers] → [Auto Off]

If there is no input signal or button press, the projector automatically turns off after the preset time has elapsed.

[Edge Adjustment]

(Q. Settings) → ⋮ → [General] → [Edge Adjustment]

[Edge Adjustment] adjusts the horizontal and vertical sides of the projected image if the projector is at an angle and not perpendicular to the screen. This feature ensures the shape of the projected image is not distorted.

Use this feature only when the projector cannot be set up at the optimal angle. [Edge Adjustment] may result in a loss of image quality.

- Some models may not be supported.

[Auto Keystone]

(Q. Settings) → ⋮ → [General] → [Auto Keystone]

[Auto Keystone] provides a rectangular screen image by automatically adjusting the keystone number when there is a trapezoidal screen image caused by tilting of the projector.

- [On]
  Automatically adjusts the keystone number.
- [Off]
  Manually adjusts the keystone number.
- Some models may not be supported.

[Keystone]

(Q. Settings) → ⋮ → [General] → [Keystone]

To prevent the screen image from becoming trapezoidal, Keystone adjusts the top and bottom width of the image if the projector is not set at a right angle to the screen.

- Some models may not be supported.

[PJT Mode]

(Q. Settings) → ⋮ → [General] → [PJT Mode]
This function turns the projected image upside down or flips horizontal.

[AI Service]

(Q. Settings) → ⋮ → [General] → [AI Service]
You can enable the recommended services based on the usage history.
The configurable items differ depending upon model.

- [Personalized Recommendation (Network)]
  You can get recommendations for viewing history base channels and content through the network.
  — [On]: Recommendations based on your viewing history are provided.
  — [Off]: Recommendations based on popularity are provided.
- [AI Recommendation]
  You can get content recommendations messages according to your content viewing history and app usage history.
- [USAGE DATA RESET]
  It resets the content view history and the app usage history. If you reset them, it takes some time to receive recommendations for contents again.

[Account Management]

(Q. Settings) → ⋮ → [General] → [Account Management]
Manage your account information and settings.

[Power Saving Mode]

(Q. Settings) → ⋮ → [General] → [Power Saving Mode]

Set power options to reduce energy consumption.

- [Auto Power Off]
  Set the projector to turn off automatically when there has been no user input for a specified amount of time.
- [HDD Power Saving Mode]
  If you set the mode to [On], the USB HDD connected to the projector will go into power-saving mode when it has been left unattended for an extended period of time.

[About This Projector]

(Q. Settings) → ⋮ → [General] → [About This Projector]

You can check the information about Customer Services, (Software Update, projector Information, and so on.)

You can run the [Notifications] to check a notification received while you are using the projector. To check the status of the projector, please run the [Quick Help].

[LG Wireless Keyboard]

(**Q. Settings**) → ⋮ → [General] → [Additional Settings] → [LG Wireless Keyboard]

This feature enables you to connect a LG wireless keyboard to your device.
Turn on the device, set it to pairing mode, and then click [CONNECT] on your projector screen.

- Supported keyboard
  — LG Rolly Keyboard
- If there is a LG wireless keyboard previously connected, it will be automatically reconnected to your projector once your projector turns on.
- To disconnect the existing connection, click [DISCONNECT].
- Some models may not be supported.

[Settings Help]

(**Q. Settings**) → ⋮ → [General] → [Additional Settings] → [Settings Help]
If you select the setting menus, you will see the hints of the settings. Turn on/off description box in settings.

[Screen Saver]

(Q. Settings) → ⋮ → [General] → [Additional Settings] → [Screen Saver]

When the currently displayed app has not received any user input for an hour, it will be replaced by a [Screen Saver].

- Setting the [Screen Saver] feature to [Off], maintains the same display for an extended period, which may compromises quality. The compromised screen may not be recoverable.

[No Signal Image]

(Q. Settings) → ⋮ → [General] → [Additional Settings] → [No Signal Image]

You can turn on or off the image displayed when there is no signal.

- [On]
  The default image is displayed if there is no signal.
- [Off]
  The [No Signal] message is displayed if there is no signal.

[Auto Power]

(Q. Settings) → ⋮ → [General] → [Additional Settings] → [Auto Power]

Makes the projector turn on automatically when the power cord is connected to the projector.

- [On]
  When the power cord is connected to the projector, it turns on automatically.
- [Off]
  When the power cord is connected to the projector, it goes into standby mode.

[High Altitude]

(Q. Settings) → ⋮ → [General] → [Additional Settings] → [High Altitude]

If the projector is used at an altitude higher than 1200 meters (3937.0 feet), turn this on.

Otherwise, the projector may overheat or its protection function may be activated. If this happens, turn the projector off and then on again after waiting for several minutes.

- Some models may not be supported.

[Home/Store Mode]

(Q. Settings) → ⋮ → [General] → [Additional Settings] → [Home/Store Mode]

You can choose between [Home Mode] and [Store Mode].

To use the projector at home, select [Home Mode].

Select [Store Mode] only when the projector will be displayed in store. The [Store Mode] provide settings optimized for store display.

[Reset to Initial Settings]

(Q. Settings) → ⋮ → [General] → [Reset to Initial Settings]

Return projector to its initial settings. This will revert all settings to their default values. After reset, the projector will automatically turn off and on.

- If [Safety] is set to [On], you should type the password to [Reset to Initial Settings].
- Do not turn off the power during initialization.
- We recommended that you reset the projector to [Reset to Initial Settings] before you sell it or transfer it to a third party.

[Safety] Settings

- Set [Safety] to [On].
- The initial password is set as “0000”.
- Some models may not be supported.
- The configurable items differ depending upon model.

[TV Lock]

(Q. Settings) → ⋮ → [Safety] → [TV Program Locks] → [TV Lock]

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

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

[Movie Lock]

(Q. Settings) → ⋮ → [Safety] → [TV Program Locks] → [Movie Lock]
Blocks films that are broadcast and contain inappropriate content, based on the Motion Picture Association of America (MPAA) rating.

- [G] (General Audiences): All ages admitted.
- [PG] (Parental Guidance Suggested): Some material may not be suitable for children.
- [PG-13] (Parents Strongly Cautioned): Some material may be inappropriate for children under 13.
- [R] (Restricted): Under 17 requires accompanying parent or adult guardian.
- [NC-17]: No one 17 and under admitted.
- [X]: Adults only.

[Downloadable Rating]

(Q. Settings) → ⋮ → [Safety] → [TV Program Locks] → [Downloadable Rating]
This function is only enabled when the TV receives the Region5 rated data. The name of the rating option may differ.

- Supported only in the digital mode.

[Channel Locks]

(Q. Settings) → ⋮ → [Safety] → [Channel Locks] → Select the Channels to lock. → 🔒 → [LOCK]

You can lock the channels you do not want your children to watch. There will be no images or sound when locked channels are selected. To watch locked channels, enter the password.

[Application Locks]

(Q. Settings) → ⋮ → [Safety] → [Application Locks] → Select the Applications to lock.

You can lock or unlock the application.

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

[Input Locks]

(Q. Settings) → ⋮ → [Safety] → [Input Locks] → Select the Inputs to lock.
You can lock or unlock the Input Locks.

[Reset Password]

(Q. Settings) → ⋮ → [Safety] → [Reset Password]
Set or change the password for the projector.

Resetting a Lost Password

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

1. Press the **(Q. Settings)** button on the remote control and move the focus to ⋮ → [Safety] → [Reset Password].
2. Press ∧ ⊞ → ∧ ⊞ → ∨ ⊞ → ∧ ⊞ on the remote control. The master password input window will appear.
3. Enter the numbers "0313" in the master password input window, then press [Enter]. The password will be reset.

[Accessibility]

[Audio Guidance]

(Q. Settings) → ⋮ → [Accessibility] → [Audio Guidance]
If [Audio Guidance] is set to [On], audio guides will be provided in various situations, such as when you change channels, adjust the volume or change settings and input signals.

- [Speed]
  Adjust the speed of spoken guide.
- [Volume]
  Adjust the volume of spoken guide.
- [Pitch]
  Adjust the tone of spoken guide.
- This feature is available on certain languages only.
- Some models may not be supported.
- The configurable items differ depending upon model.
- For visually impaired users.
- Setting the [Audio Guidance] to [On] automatically switches the [Projector Power Sound] (only available on certain models) to [On] as well.

[Pointer Options]

(Q. Settings) → ⋮ → [Accessibility] → [Pointer Options]
You can set the pointer speed and size you want while it is on the screen.

[Menu Transparency]

(Q. Settings) → ⋮ → [Accessibility] → [Menu Transparency]
By setting this feature to [On], you can make some of the menus (e.g. Live Menu, Search, etc.) transparent.

[Closed Caption]

(Q. Settings) → ⋮ → [Accessibility] → [Closed Caption]

View closed captions when the TV station provides closed captioned programming. Program closed captions work only on digital/analog broadcasts or external input.

Change [Closed Caption] to [On] and select caption setting.

- [Analog Mode]
  [CC 1]-[CC 4] (Closed Captioning)/[TEXT 1]-[TEXT 4]
  Displays the audio portion of a TV program as text on the projector screen. CC1 is the most common mode in use.
  Field 1 data channels: two Captions (CC1, CC2), two Text (T1, T2).
  Field 2 data channels: two Captions (CC3, CC4), two Text (T3, T4).
- [Digital Mode]
  According to the digital broadcasting type you are watching, you can select the caption in [HD Mode].
  In the case of HD broadcasting, you can set the size and color of the caption at the [HD Mode Option]. Please select [Set By Program] or [Custom]. You can adjust detailed options such as the size and color of the caption by selecting the [Custom].

[Projector Power Sound]

(Q. Settings) → ⋮ → [Accessibility] → [Projector Power Sound]

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

- Some models may not be supported.

[High Contrast]

(Q. Settings) → ⋮ → [Accessibility] → [High Contrast]

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

TO UPDATE SOFTWARE

Uses software update to check and obtain the latest version.

- The configurable items differ depending upon country.
- 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, [Allow Automatic Updates] is not displayed if you are not connected to the internet.

[CHECK FOR UPDATES]

(Q. Settings) → ⋮ → [General] → [About This Projector] → [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 projector automatically checks your software version but, if necessary, you can perform a manual check.

[Allow Automatic Updates]

(Q. Settings) → ⋮ → [General] → [About This Projector] → [Allow Automatic Updates]

If [Allow Automatic Updates] is selected, when an update is available, the update automatically starts without prompting a question.

If [Allow Automatic Updates] is not selected, when an update is available, the update will start after prompting a question.

TROUBLESHOOTING

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

Information on customer service for product problems is available in **(Q. Settings)** → → [General] → [About This Projector] on the projector.

Perform Check-up with the [Quick Help].

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

1 Press **(Q. Settings)** button on the remote control and select → [General] → [About This Projector] → [Quick Help].
   - You can also long-press the number 9 button of the remote control to run the [Quick Help].

2 You can perform the [Check the status of Projector]/[Self-Diagnosis of Projector Settings].
   Select the problematic item, and you can get help to solve the problem.
   - [Self-Diagnosis of Projector Settings]: Select the item that matches the symptom to find instructions that can help you solve the problem.
   - [Check the status of Projector]: You can check your projector's current status for the selected item.

- When there is no related content in the [Quick Help], please refer to the Troubleshooting.
- If you still fail to solve the problem, please contact our customer service center.

Abnormal Operation

Power/Remote Control Errors

I cannot turn on the Projector.

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

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

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

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

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

I cannot turn the projector on with the remote control.

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

Screen Problems

First of all, perform a **(Q. Settings)** → → [Picture] → [Picture Test] to check for any abnormalities in the projector.
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 projector.

It says there is no signal on the screen.

- Make sure that the coaxial cable or HDMI® cable is correctly connected to your projector.
- Go to to choose the connected input.
- Check if your external device, such as set-top box or Blu-ray player, is turned on.

I cannot see some channels.

- Start the **(Q. Settings)** → → [Channels] → [Channel Tuning] → [Auto Tuning].
- If you are using a set-top box, consult its supplier.

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

- Stop using items such as wireless telephones, hairdryers, electrical drills etc. The problem is caused by high-frequency electronic devices such as another projector or strong electromagnetic sources.

There is a difference in picture quality for each channel.

- XX-0 channels are analog channels. It is recommended for watching digital channels such as XX-1.
- Run [Picture Test] first. If it is normal, there may be a problem with the broadcast signal.

A digitally broadcast program stops or its screen is broken.

- This happens when a signal is weak or reception is unstable. Adjust the antenna direction or check the cable connection.
- If the signal strength is too low in **(Q. Settings)** → → [Channels] → [Channel Tuning] → [Manual Tuning], contact the broadcasting station or management office to have the signals checked.
- If you are using a set-top box, consult its supplier.

I see vertical lines in all four directions on the screen, or colors are blurred when I try to connect to HDMI.

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

I don't see anything, or the image keeps flickering when i try to connect the HDMI® cable.

- Check whether your HDMI® cable is compliant with the specifications. You may experience flickering or a blank screen if the HDMI® cable is faulty (bent, broken).
- Make sure that the cable is correctly connected to the port. Bad or loose contact may cause display problems on the screen.

The screen looks too dim or dark.

- **(Q. Settings)** → → [Picture] → [Picture Mode Settings] → [Picture Mode]
  Switch [Picture Mode] to your desired picture mode. ([Standard], [Vivid], etc.)
  This applies to the current input mode only.
- **(Q. Settings)** → → [Picture] → [Energy Saving]
  Switch [Energy Saving] to [Minimum].

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

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

Sound Problems

First of all, perform a **(Q. Settings)** → → [Sound] → [Sound Test] to check for any abnormalities in the projector.

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 projector.

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

- Try another channel.
- If you use a set-top box, there will be no sound if you have set the volume of the set-top box or your projector to 0 or enabled Mute. Set the volume to an appropriate level.
- **(Q. Settings)** → → [Sound] → [Sound Out]
  Set the [Sound Out] to [Internal Projector Speaker] or [Internal Projector Speaker + Optical], and then check it once again. If you can hear the sound just fine, you need to set the external speakers connected such as a soundbar.

There is no sound coming from one of the speakers.

- **(Q. Settings)** → → [Sound] → [Sound Mode Settings] → [Balance]
  Adjust the balance as necessary with the Navigation button in [Balance].

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

- If this happens on only some of the channels, it may be caused by the broadcasting company's transmission signal. Please have your broadcasting services provider (wired/cable) diagnose the problem.
- If all channels are out of sync, go to **(Q. Settings)** → → [Sound] → [AV Sync Adjustment] and adjust the sync.
- If you are using a set-top box, consult its supplier.

The volume changes when I change the channel.

- The volume of different broadcasting stations transmission output may vary.
- **(Q. Settings)** → → [Sound] → [Auto Volume]
  Set [Auto Volume] to [On].
- If you are using a set-top box, consult its supplier.

The sound does not work or only the background music is played in some programs. (Programs produced for export by broadcasting companies)

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

The stereo sound is not clear on an analog channel, or there is no sound from one of the speakers.

- **Wheel (OK)** or **OK** →
  Applies only in countries where sound multiplex broadcasting is available.
  Select [MONO] in Multi Audio if you are out of range or sound multiplex broadcasting is not stable.
- **(Q. Settings)** → → [Sound] → [Sound Mode Settings] → [Balance]
  Adjust the balance as necessary with the Navigation button in [Balance].

PC Connection Problems

Press and hold the button on the remote control to select the on the top right of [Home Dashboard]. In the edit mode, set the icon of the HDMI terminal connected to the PC to [PC] to apply the video and aspect ratio settings that are aligned with the PC.

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

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

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

- Check that the PC is properly connected to the projector.
- Turn the projector off and back on using the remote control.
- Restart the PC with the projector on.
- Check that the current screen resolution supports the PC input.
- To use dual monitors, check that the PC or notebook supports dual-monitor mode.
- Reconnect the high speed HDMI® cable.
- If you have connected the RGB output port of your PC to the HDMI input port or your projector. You need an RGB to HDMI gender.
  You will not see anything on the screen if you use an HDMI to RGB gender.

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

- Set the PC's resolution to one supported by the projector.
- Set the connected HDMI device's name to PC.
- Press and hold the button on your remote control. Select the in the upper right corner and change the icon of the HDMI terminal connected to [Inputs] to PC.

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

- Configure projector as your default device in Control Panel → Sound in your PC settings.
- Consult your manufacturer on whether your graphics card supports HDMI audio output.

[Photo & Video] Movie Playback Problems

For more information about supported files, see “[Photo & Video]”.

I cannot find a file in the [Photo & Video].

- Check that the files on the USB storage device can be read by a PC.
- Check that the file extension is supported.

I get a message saying “This file is not supported” or the sound is playing normally but the video is not.

- Check that the file plays without any problems on a PC’s video player. Also check for file damage.
- Check that the file extension is supported.
- Check that the resolution is supported.
- Check that the video codec is supported.
- Check that the frame rate is supported.

I get a message saying “This audio is not supported” or the video is playing normally but the audio is not.

- Check that the file plays without any problems on a PC’s video player. Also check for file damage.
- Check that the file extension is supported.
- Check that the audio codec is supported.
- Check that the bit rate is supported.
- Check that the sample rate is supported.
- Check that the audio channel separation is supported.

I cannot see the subtitles.

- Check that the file plays without any problems on a PC's video player. Also check for file damage.
- Check that the video and subtitle files have the same name.
- Also check that both the video file and the subtitle file are in the same folder.
- Check that the subtitle file format is supported.
- Check that the language is supported. (You can check the language of the subtitle file by opening the file in the Notepad.)
  If subtitles encoding is incorrectly set, subtitles may not be displayed properly. Select → SUB in the control panel at the bottom of the video playback screen and change the [CODE PAGE] value.
- If you play a video file stored on another device by using the content sharing feature, subtitles may not be available depending on the program you use.
- Subtitles are not supported if you are playing video through an NAS unit. Consult your NAS manufacturer.

My USB storage device is not recognized when connected.

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

Network Connection Problems

You can check the network connection status as shown below.

- **(Q. Settings)** → → [Connection] → [Wired Connection (Ethernet)]
- **(Q. Settings)** → → [Connection] → [Wi-Fi Connection] → [Advanced Wi-Fi Settings]



When X appears next to projector

- Check the projector or the AP (Router).
- Check the connection status of the projector, AP (Router) and Cable Modem.
- Power off and power on in the following order;
  1. The Cable Modem, wait for the Cable Modem to reset.
  2. The AP (Router), wait for the AP (Router) to reset.
  3. The projector.
- If you are using a wireless connection, change the SSID (Network name) and wireless channel of AP (Router).
- If you are using a static IP, enter the IP directly.
- Contact internet service provider or AP (Router) companies.



When X appears next to Gateway

- Check the AP (Router) or consult your Internet service provider.
- Unplug the power cord of the AP (Router), Cable Modem, wait 10 seconds. Reapply power.
- Initialize (Reset) on the AP (Router) or Cable Modem.
- Contact internet service provider or AP (Router) companies.
- Check the AP (Router) manufacturer's website to make sure your router has the latest firmware version installed.



When X appears next to DNS

- Check the AP (Router) or consult your Internet service provider.
- Unplug the power cord of the Cable Modem or the AP (Router), wait 10 seconds. Reapply power.
- After the Cable Modem or AP (Router) has Initialized (Reset), try to reconnect.
- Check that the MAC address of the projector/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the pane of the network status window should be registered with your Internet service provider.)

LG Account Problems

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

I have already signed up on the projector. Do I still have to sign up again at the website (www.lgappstv.com)?

- If you have already signed up on your projector, you do not have to sign up again on the website.
  You can sign into the website by using the same ID and password and entering the additional information to complete the email verification process.

I forgot my ID/Password. What should I do?

- You can initialize the password through E-mail when you select FORGOT PASSWORD? on the sign in screen.
- If you signed up on a PC, you can find your ID/Password on the website (www.lgappstv.com).

Contents Problems

I cannot see any content in HOME.

- You may not be able to see the content if the service country setting has been changed. Change to the service country you are going to use the service from in **(Q. Settings)** → → [General] → [Location] → [LG Services Country]. (Some models may not be supported.)
- You may not be able to view content that has been deleted. Please reinstall the appropriate app.
- The type of supported content differs by country.
- The content offerings are subject to change or interruption by the service provider.
- If the app is deleted, you can download the app at [LG Content Store] and re-install it. Go to → [LG Content Store] to find and install the app you want.

Internet Browser Problems

Some parts of a particular website are not visible when I am using the Internet.

- The [Web Browser] supports only HTML5 media and not Flash Plug-in.
- The [Web Browser] does not support plug-in installation.
- On the [Web Browser], it may not be possible to play media files in formats other than JPEG/PNG/GIF.
- You cannot save attachments or images.

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

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

When watching a video in [Web Browser], the video is forced off.

- You may be able to fix this by setting [Settings] → [Adaptive Streaming using JavaScript] to [Off] in [Web Browser]. The setting is not applied to tabs that were open before the change, and is only applied to tabs opened after the change.


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