



Owner's Manual

LG CineBeam Laser 4K

DLP Projector

Please read the safety information carefully before using this product.

HU80KA

HU80KS

www.lg.com

P/NO : SAC37034698 (1903-REV01)

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LICENSES

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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.


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.




WARNING/CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN



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 the 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 use the projector outside and do not expose the product to any humidity or water.
 - Since the product is not waterproof, this may result in a fire or electric shock.
- Do not place the projector in direct sunlight or near heat sources such as radiators, fires, stoves, etc.
 - This may result in fire.

- Do not place flammable materials such as aerosols near the projector.
 - This may result in fire.
- Do not allow children to cling to or climb up to the projector.
 - This may cause the projector to fall, causing injury or death.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a closet) or on a carpet or cushion.
 - This may result in fire due to the increase in internal temperature.
- Do not place the product close to sources of steam, oil or oil mist, such as humidifiers and kitchen counters.
 - Failure to do so may result in fire, electric shock, or corrosion.
- Do not install the product onto a wall or ceiling that is close to sources of oil or oil mist.
 - The product may be damaged and fall, resulting in serious injury.
- Do not place the projector where it might be exposed to dust.
 - This may result in fire.
- Do not place the product in a damp place where it is likely to get wet, such as in a bathroom, a place exposed to the wind and rain, or next to a vase or aquarium.
 - This may result in fire or electric shock.
- Do not allow a tablecloth or curtain to block the air vent.
 - This may result in fire due to the increase in the internal temperature.
- Ensure good ventilation around the projector. The distance between the projector and the wall should be at least 30 cm (11.8 inches).
 - This will prevent fire due to the increase in the internal temperature.
- When installing the product on a ceiling, a professional technician should install it using authorized tools. If installed improperly, the product may fall.
 - This may cause personal injury or property damage. For installation of the product, please contact the customer support center.

- If you use a ceiling mounting device, adhesive to prevent loosening of screws, or if you apply oil or lubricant to the product, this may cause the case to crack and the product to fall. This may also cause serious personal injury to the person below the device (if any) and damage to the product as well.
- Do not place the product high up, for example, on a cupboard, bookcase, or cabinet without locking equipment to secure it.
 - The projector may fall and cause injury.
- Do not place the product under an air conditioner or a place directly exposed to its airflow.
 - Doing so may cause a fire due to condensation.

 **CAUTION**

- When moving the projector, make sure to switch it off and remove the power plug and cords.
 - The power cord may be damaged, resulting in fire or electric shock.
- Do not place the projector on an unstable or vibrating surface such as a wobbly shelf or a slope.
 - It may fall and cause injury.
- Be careful not to tip the projector over when connecting external devices to the projector.
 - This may cause personal injury or damage to the projector.
- When the projector is installed as the Table-Type and placed upright on a table, the projector may fall, which may cause damage to the product or personal injury.
 - It is recommended that the product is safely laid down on the table.

Power

WARNING

- DISCONNECTING THE DEVICE FROM THE MAIN POWER
 - The Power plug is the disconnecting device. In case of an emergency, the Power Plug must remain readily accessible.
- The grounding wire should be connected. (Except for devices which are not grounded.)
 - Ensure that you connect the grounding cable to avoid electric shock. If it is not possible to ground the unit, have a qualified electrician install a separate circuit breaker. Do not try to ground the projector by connecting it to telephone wires, lightning rods or gas pipes.
- The power plug should be inserted fully into the power outlet.
 - An unstable connection may cause a fire.
- Do not place heavy objects on the power cord.
 - This may result in fire or electric shock.
- Never touch the power plug with wet hands.
 - This may result in electric shock.
- Do not plug too many devices into one multi-power outlet.
 - This may result in fire due to the power outlet overheating.
- Keep the power plug, and the used power outlet clean from dust or foreign materials building up.
 - This may result in fire.
- If there is any smoke or a burning smell from the projector or power cord, stop using the product immediately. Disconnect the power cord from the power outlet, and then contact the customer service center.
 - This may result in fire.
- To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.
- When removing the power plug, make sure your fingers do not contact the pin.
 - This may result in fire or electric shock.

 **CAUTION**

- Always grab the plug to remove the power cord.
 - Otherwise, this may result in a fire or may damage the product.
- Refrain from constantly bending the power cord.
 - If the power cord is bent excessively for a long period of time, the cord may break inside. This may result in a fire or electric shock.
- Ensure the power cord and plug are not damaged, modified, severely bent, twisted, pulled, sandwiched or hot. Do not use the product if the power outlet is loose.
 - This may result in fire or electric shock.
- Do not extend the power cord past the red mark, and hold the plug when retracting it.
 - The plug may whip, inflicting damage on you or items nearby.
- Keep the power cord away from heating devices.
 - The wire's sheath may melt, which may result in fire or electric shock.
- Place the projector where people will not trip over or step on the power cord to protect the power cord and plug from any damage.
 - This may result in fire or electric shock.
- Do not turn the projector on or off by plugging in the power plug or unplugging it from the power outlet. (Do not use the power plug as a switch.)
 - This may result in electric shock or damage to the product.
- Do not insert a conductor into the other side of the wall outlet while the power plug is inserted into the wall outlet. In addition, do not touch the power plug immediately after it is disconnected from the wall outlet.
 - This may result in electric shock.
- Only use the official power cord provided by LG Electronics. Do not use other power cords.
 - This may result in fire or electric shock.

- If any water or foreign materials have gone into the power cord, or the interior of the projector, turn off the projector by pressing the power button. Remove all the cables, and then contact the customer service center.
 - This may result in fire or electric shock.
- Never disassemble the power supply devices (power cord, etc.).
 - This may damage the power cord and result in a fire or electric shock.
- Connect the power cord firmly.
 - Not doing so may result in a product failure or fire.
- Do not place heavy objects or put pressure on the power cord and avoid damage.
 - This may result in a fire or may damage the product.

When in Use

WARNING

- Do not place anything containing liquid on top of the projector such as a vase, flower pot, cup, cosmetics, medicine, or ornaments, candles, etc.
 - This may result in fire or electric shock, or cause injury due to falling.
- In the event that there is a heavy impact or the cabinet is damaged, switch it off, unplug it from the power outlet and contact an authorized service center.
 - This may result in electric shock.
- Do not insert pieces of metal such as coins, hairpins or metal debris, nor flammable materials such as paper or matches into the projector.
 - This is to prevent electric shock or fire.
- Make sure that a child does not swallow the batteries when you replace the old batteries in the remote control with new ones. Keep batteries out of reach of children.
 - If a child swallows a battery, consult a doctor immediately.

- Never open any cover on the projector.
 - There is a high risk of electric shock.
- Do not look directly into the lens when the projector is in use.
 - The bright light may damage your eyes.
- When the lamp is on or has just been turned off, avoid touching the air vent or lamp, because these will be very hot.
- If there is a gas leak in the room with the projector, do not touch the projector or power outlet. Open the windows for ventilation.
 - Sparks may cause fire or burns.
- Unplug the power cord from the outlet during a lightning storm.
 - This will prevent shock or damage to the projector.
- Do not use the projector near electronic devices that generate a strong magnetic field.
- Keep the plastic film used for packaging the projector out of the reach of children.
 - If not handled safely, it can cause suffocation.
- Do not keep your hand on the projector for a long time when it is running.
- When you play a game by connecting a game console to a projector, it is recommended that you maintain a distance of more than four times the diagonal length of the screen.
 - Make sure that the connecting cable is long enough. Otherwise, the product may fall causing personal injury or damage to the product.
- Do not place the projector or its remote control with batteries in an extremely high temperature environment.
 - This may result in fire.

 **CAUTION**

- Do not place heavy objects on the projector.
 - It may fall down and cause personal injury.
- Be careful not to allow any impact to the lens during transport.
- Do not touch the lens of the projector.
 - The lens may be damaged.
- Do not use any sharp tools on the projector such as a knife or hammer, because this may damage the casing.
- In the event that no image appears on the screen or no sound is heard, stop using the projector. Switch off the projector, unplug it from the power outlet and contact our service center.
 - This may result in fire or electric shock.
- Do not drop anything onto the projector or allow anything to bang into the projector.
 - This may cause damage to the projector or personal injury.
- It is recommended that you maintain a distance of more than 5 to 7 times the diagonal length of the screen.
 - If you watch the screen at a close distance for a long time, your eyesight may become worse.
- Do not block the light beam emitted from the projector using a book or other object.
 - Lengthy exposure to the projector beam may result in fire. In addition, the lens may be overheated and damaged by the reflected heat. Disable the AV function to stop projection temporarily or turn off the power.
- Do not start the projector with the volume turned up high.
 - High volume may damage hearing.
- If you use headphones or earphones, do not use them at high volume or for a long period of time. [Only applicable to models that support headphones (earphones).]
 - Doing so may damage your hearing.

- Do not use high voltage electrical equipment near the projector, (e.g., a bug zapper). This may result in product malfunction.
- Please be sure that the projector's aperture (lens and mirror) is not blocked by a person or any objects.
- Be careful of the air vent because it becomes hot if the projector is powered on for a long period of time. Such a rise in temperature in the air vent is not a defect and does not cause problems in the product's operation.
- Do not hold or move the product upside down by holding just the power cord, signal cable, projection mirror, etc.
 - Doing so may damage the product or cause an electric shock or fire.
- As long as the power cord is plugged in, the product will not be completely powered off even after it is turned off.

Cleaning

WARNING

- Do not spray the projector with water when cleaning. Make sure water does not flow into the projector.
 - This may result in fire or electric shock.
- When there is smoke or a strange smell coming out from the projector or a foreign object falls into the projector, please switch it off and unplug it from the power outlet and contact our service center.
 - Otherwise, this may result in fire or electric shock.

 **CAUTION**

- Contact your seller or our service center once a year to clean the internal parts of the projector.
 - If you do not clean the projector for a long period of time, dust will accumulate, which may result in fire or damage to the projector.
- When cleaning plastic parts such as the projector case, unplug the power first and wipe with a soft cloth. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, automobile or industrial polish, abrasives, wax, benzene, or alcohol as these can damage the projector.
 - This can result in fire, electric shock or cause damage to the product (deformation and corrosion).
- Do not wipe the optical system (lens, mirror) right after the product has been turned off or while the product is being operated. When cleaning each part of the product, remove the power cord and wipe gently with a soft cloth. Do not spray with water or wipe with a wet cloth. Do not use detergents, automobile or industrial polish, abrasive substances, wax, benzene, alcohol, water, etc. on the product's main unit or optical system (lens, mirror) as this may damage the product.
 - This can result in fire, electric shock or cause damage to the product (deformation and corrosion).
- Remove the plug from the outlet before cleaning the product.
 - Otherwise, this may result in electric shock.

Laser

WARNING

- This product contains a laser module. Do not disassemble or modify the product as this could be dangerous.
- You risk being exposed to laser radiation if you manipulate or alter the product in a way not specified in the user manual.
- To protect your eyes avoid looking directly into the bright light from the unit.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

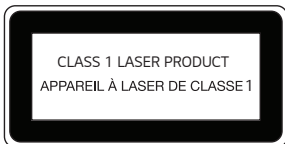
CAUTION

- This product is a class 1 laser device that meets IEC 60825-1.

Built-in laser standard (class 4 laser module)

- Wavelength: 448 nm - 462 nm
- Light output: approx. 4.5 W x 12

Product Laser Class Label



The laser class label of product is attached to the bottom of the product.

Others

WARNING

- When you go out, place the projector out of reach of animals, and remove the power plug from the wall outlet.
 - Using a damaged power cord may result in short circuit or fire.
- Do not use the projector near high-precision electronic devices or those that transmit weak radio signal.
 - This may affect the operation of the product, causing an accident.
- Only a qualified technician can disassemble or modify the projector. For diagnosis, adjustment, or repair, contact your seller or our service center.
 - This may result in fire or electric shock.
- Proper ventilation required, do not block airflow around unit. Doing so can cause injury and internal overheating.
- Do not touch the lens; doing so can result in burns or damage to lens. Lens and unit may be HOT during and immediately after use. Use caution when handling unit, allowing for proper cool down.
- Only use a grounded electrical outlet. (Except for devices which are not grounded.)
- Do not insert anything into or cover up the exhaust vents.
 - This may result in fire or electric shock.
- Follow all maintenance guidelines for optimal use; service only at an authorized service center.
- Keep the batteries and remote out of reach of children.
 - This will prevent personal injury or damage to the product.

 **CAUTION**

- Do not use or store the projector outdoors for long periods of time.
- Do not mix new batteries with old ones.
 - Burst or leaking batteries may result in damage or injury.
- Be sure to unplug if the projector is not to be used for a long period.
 - Accumulated dust may result in fire or electric shock due to overheating, ignition, or poor insulation.
- Only use the specified type of battery.
 - Burst or leaking batteries may result in damage or injury.
- Make sure you use the same type of battery when replacing.
 - In the case of a battery contact failure, the battery may drain quickly or the remote control may not work properly.
- Dispose of used batteries properly.
 - This may result in explosion or fire. The correct method of disposal may vary depending on your country or region. Dispose of the battery pack as instructed.
- Do not throw or disassemble the battery.
 - This may result in fire or explosion due to damage to the battery.
- Store batteries away from metallic objects, such as keys and paper clips.
 - Excess current may cause a rapid increase in temperature, resulting in fire or burns.
- Do not store the batteries near any heat source, such as a heater.
 - This may result in fire or damage to the product.
- Do not store batteries at temperatures higher than 60 °C (140 °F) or in high humidity.
 - This may result in explosion or fire.
- Make sure that the battery is installed correctly.
 - This prevent explosion or fire.
- When replacing batteries, make sure that the positive and negative terminals (+, -) are properly oriented.
 - Battery rupture or leakage may lead to fire, explosion, injury or contamination (damage) of the surrounding area.

Risk Group 2

CAUTION Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

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

ANTENNA

⚠ WARNING

- 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.

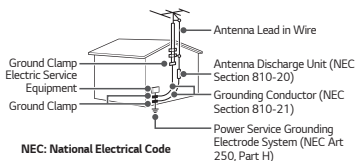
⚠ CAUTION

- To prevent any water flowing into the product, install a drip loop in the outdoor antenna wire where it comes indoors.
 - Raindrops flowing into the product may cause fire or electric shock.

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.

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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 Remote Control
Two AA Batteries

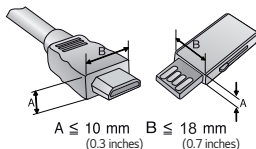


Owner's Manual



4 Table-Type Screws

- 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/USB 3.0.



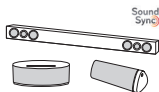
- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI cable types)
 - High-Speed HDMI[®]/™ Cable
 - High-Speed HDMI[®]/™ Cable with Ethernet

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



LG Audio Device



HDMI Cable



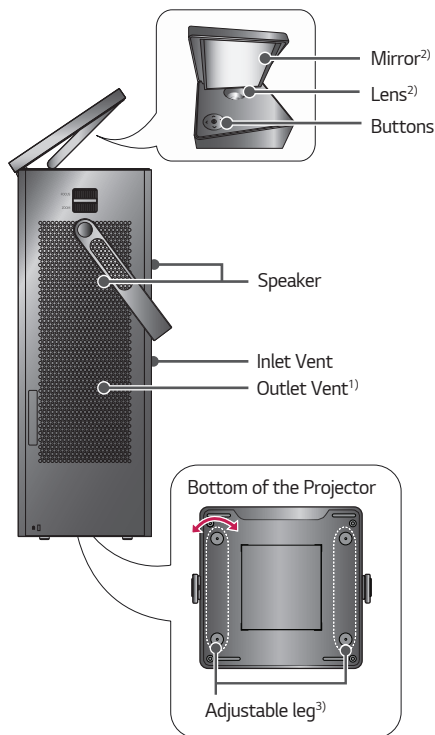
Optical Cable



RF Cable

Parts and Components

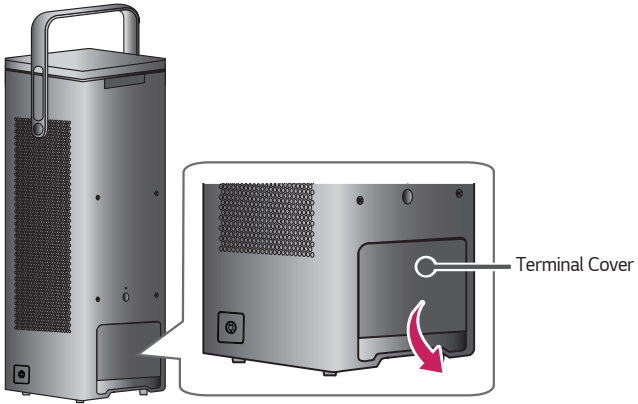
This projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue, or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.

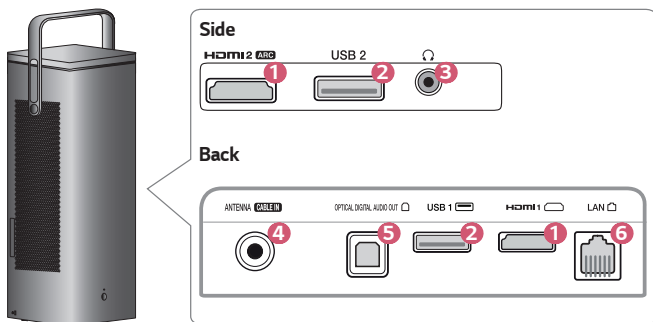


- 1) Due to the high temperature of vent area, do not get close to the vent area.
- 2) Do not touch the Lens and Mirror when using the projector. The Lens and Mirror may be damaged. (Keep lens away from sharp objects.)
- 3) Turn the adjustable leg left or right to adjust the angle.

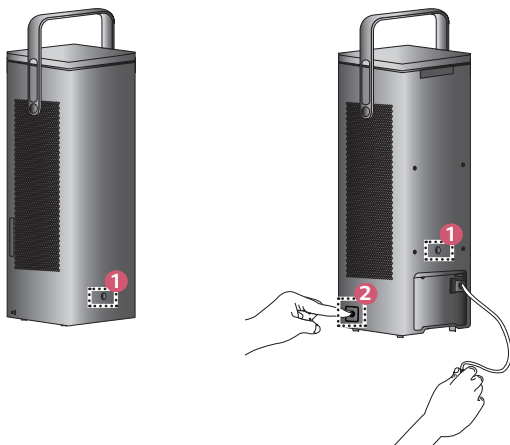
Remove the terminal cover before plugging-in the power cord and cables, as shown in the picture below.

ENGLISH





No.	Description
1	HDMI Port
2	USB port
3	🎧 (Headphone Port)
4	ANTENNA CABLE IN Port
5	OPTICAL DIGITAL AUDIO OUT Port
6	LAN Port

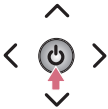
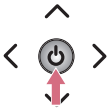
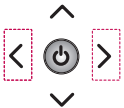
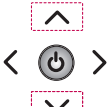


No.	Description
1	IR Receiver
2	<p>Power Cord Rewind Button</p> <p>When not using the projector, press the Power Cord Rewind button to retract the power cord.</p> <ul style="list-style-type: none"> • Hold the power cord with one hand and press the Power Cord Rewind button. <ul style="list-style-type: none"> – Otherwise, the power plug may hit and damage the product. • If the power cord does not rewind or come out fully, <ul style="list-style-type: none"> – Pull out the cord and rewind again. – Pull hard if the power cord does not come out. • Do not extend the power cord past the red mark, and hold the plug when retracting it. <ul style="list-style-type: none"> – The plug may whip, inflicting damage on you or items nearby.

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 ¹⁾ (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.

1) The product turns off 1 minute after its mirror is closed, even when the power off button had not been pressed.

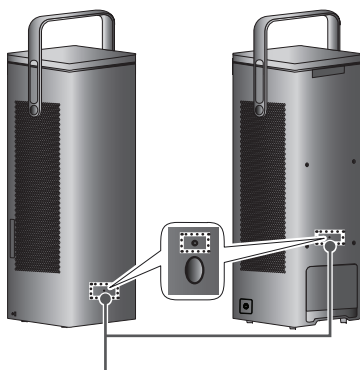
Adjusting the menu

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



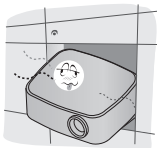
LED Power Indicator

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

Installation

Installation Precautions

- Place the projector in a well-ventilated environment.
 - To prevent internal overheating, install the projector in a well-ventilated place. Do not place anything near the projector. That may block its air vents. If the air vents are blocked, the internal temperature of the projector will increase.



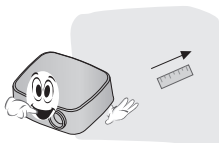
- Do not place the projector on a carpet or rug. If the projector's inlet vent is on the bottom, be careful not to block the vent and always use the projector on a solid, level surface.



- Be sure to prevent foreign objects such as paper debris from entering the projector.



- Leave an adequate open area (30 cm [11.8 inches] or more) around the projector.



- Do not place the projector in a hot, cool, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
 - This may result in fire.
- Never open any cover on the projector. There is a high risk of electric shock.
- The projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.

- The remote control may not work in an environment where a lamp equipped with electronic ballasts or a three-wavelength fluorescent lamp is installed. Replace the lamp with an international standard lamp for the remote control to work normally.
- To install to the ceiling, attach the ceiling-type bracket to the projector with M4 x 8 mm screws.
- Do not overtighten the screws. It may damage the case, causing the projector to fall and cause a serious injury. (Recommended Torque: 4.34 ~ 6.94 ibf-in [5~8 kgf·cm])
- Please be sure that the projector's aperture (lens and mirror) is not blocked by a person or any objects.

Mirror Adjustment and Precautions

Adjust the mirror per the instructions, as shown in the picture below.

When adjusting the mirror, do not over tilt it backward. Doing so may damage the product.



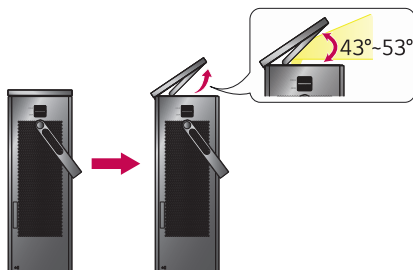
CAUTION



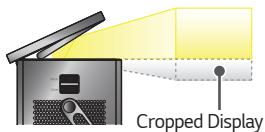
- Do not rotate the mirror while it is closed.
 - Doing so may damage the mirror.



- Do not adjust the mirror to make it face the floor.
 - You will not see anything on the screen because the light is not projected.
 - The projector will be turned off after about 1 minute.

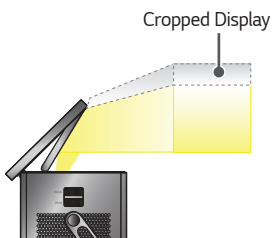
Stand-Type (Front Projection)

- You can adjust the angle of the mirror to change the screen height.
 - You can adjust the screen location when the mirror angle is 43–53 degrees.

**CAUTION**

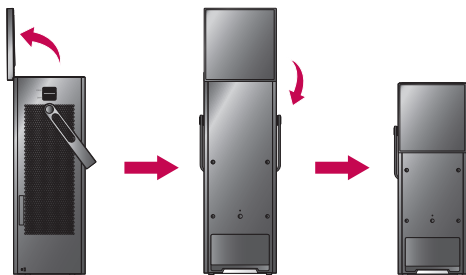
When the mirror angle is about 43 degrees or less,

- the projected image is partially cropped because the projected light is cut off.
- If you decrease the mirror angle further or close the cover, you will not see anything on the screen because the light is not projected.
- If the mirror is closed, the projector will be turned off after about 1 minute.



When the mirror angle is about 54 degrees or more,

- the projected image is partially cropped because the projected light escapes the mirror.

Stand-Type (Ceiling Projection), Table-Type, Ceiling-Type

- 1** Adjust the mirror angle to 90 degrees.
- 2** Rotate the mirror 180 degrees clockwise to lower it.
 - Follow the steps described above in reverse order to close the mirror.

Stand-Type Installation

You can install the projector horizontally on the floor, as shown in the picture.

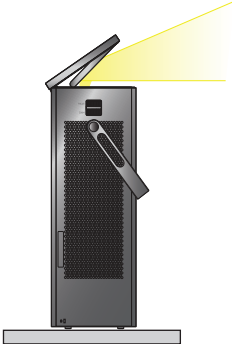
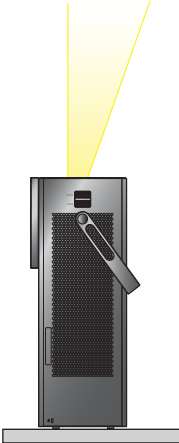
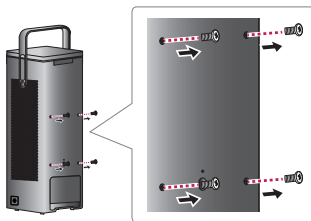
Front projection	Ceiling projection
 A diagram showing a projector on a stand with its mirror tilted upwards. A yellow beam of light is projected horizontally from the lens. The projector is sitting on a grey base representing the floor.	 A diagram showing a projector on a stand with its mirror tilted downwards. A yellow beam of light is projected upwards from the lens. The projector is sitting on a grey base representing the floor.
<p>See page 31 of "Mirror Adjustment and Precautions" to adjust the mirror and install the projector horizontally on the floor, as shown in the picture.</p>	<p>See page 33 of "Mirror Adjustment and Precautions" to adjust the mirror and install the projector horizontally on the floor, as shown in the picture.</p>

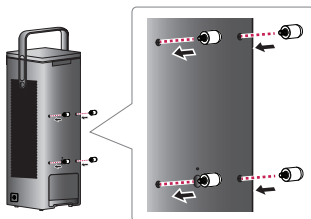
Table-Type Installation for Front Projection

You can install the projector horizontally on a table, as shown in the picture.

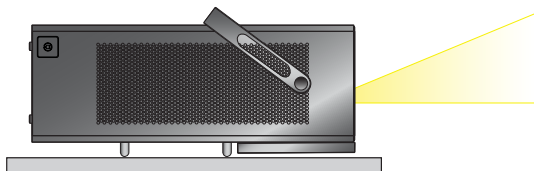
- 1 Remove the screws from the projector before installing the product on a table.



- 2 Fasten the 4 table-type screws which are included with the projector.



- 3** See page 33 of "Mirror Adjustment and Precautions" to adjust the mirror and install the projector horizontally on a table, as shown in the picture. You can adjust the screen angle up to 2 degrees by changing the height of the screws. Stand-Type installation is recommended.

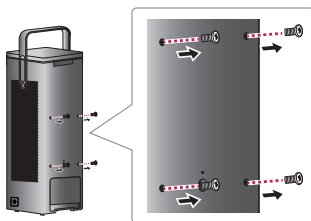


CAUTION

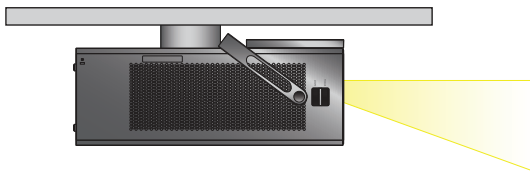
- When the projector is installed as the Table-Type and placed upright on a table, the projector may fall, which may cause damage to the product or personal injury.
 - It is recommended that the product is safely laid down on the table.
- If you use the product without fastening the table-type screws, scratches may occur on the mirror case.
- The handle should be positioned upward.
 - Otherwise, scratches may occur on the part of the product that is in contact with the handle.

Ceiling-Type Installation

- 1 Remove the screws from the projector before installing the product on the ceiling.
 - When switching from table-type to ceiling-type installation, make sure that all table-type screws are removed before re-installing the projector. (See page 35.)

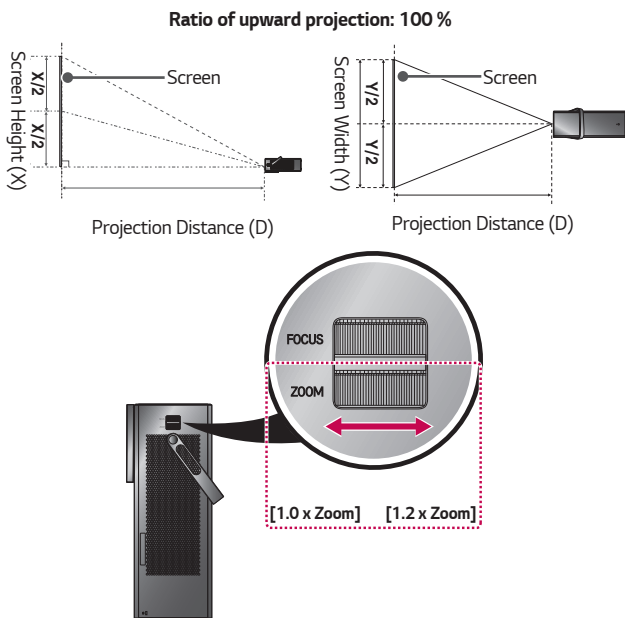


- 2 See page 33 of "Mirror Adjustment and Precautions" to adjust the mirror and install the projector horizontally on the ceiling, as shown in the picture. See the Ceiling Bracket Manual for more details regarding installation. (The ceiling bracket necessary for ceiling-type installation must be purchased separately.)



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.



NOTE

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

16:9 Aspect Ratio [1.2 x Zoom]							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)
40	1016	34.8	886	19.6	498	45.1	1147
45	1143	39.2	996	22.0	560	50.9	1293
50	1270	43.5	1107	24.5	623	56.3	1432
55	1397	47.9	1218	26.9	685	62.2	1580
60	1524	52.2	1328	29.4	747	68.0	1728
65	1651	56.6	1439	31.8	809	73.7	1872
70	1778	61.0	1550	34.3	872	79.3	2016
75	1905	65.3	1660	36.7	934	85	2159
80	2032	69.7	1771	39.2	996	90.6	2303
85	2159	74.0	1882	41.6	1058	96.6	2454
90	2286	78.4	1992	44.1	1121	102.5	2606
95	2413	82.7	2103	46.5	1183	108.1	2746
100	2540	87.1	2214	49.0	1245	113.6	2886
105	2667	91.4	2324	51.4	1308	118.9	3022
110	2794	95.8	2435	53.9	1370	124.2	3157
115	2921	100.2	2546	56.3	1432	130.6	3319
120	3048	104.6	2657	58.8	1494	137.0	3480
125	3175	108.9	2767	61.2	1557	142.5	3621
130	3302	113.3	2878	63.7	1619	148.1	3762
135	3429	117.6	2989	66.1	1681	153.9	3910
140	3556	122.0	3099	68.6	1743	159.8	4059
145	3683	126.3	3210	71.1	1806	165.4	4202
150	3810	130.7	3321	73.5	1868	171.0	4345

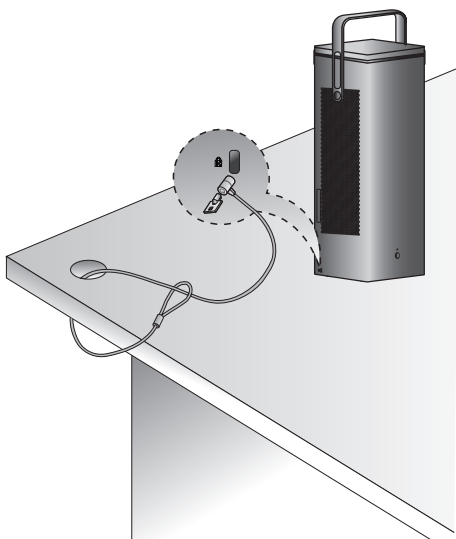
- The figures in the above table may differ depending on the installation environment.

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)
33	847	29.0	738	16.3	415	45.1	1147
38	953	32.6	830	18.3	467	50.9	1293
42	1058	36.2	922	20.4	519	56.3	1432
46	1164	39.9	1015	22.4	571	62.2	1580
50	1270	43.5	1107	24.5	623	68.0	1728
54	1376	47.2	1199	26.5	675	73.7	1872
58	1482	50.8	1291	28.5	726	79.3	2016
63	1588	54.4	1384	30.6	778	85	2159
67	1693	58.1	1476	32.6	830	90.6	2303
71	1799	61.7	1568	34.7	882	96.6	2454
75	1905	65.3	1660	36.7	934	102.5	2606
79	2011	69.0	1753	38.8	986	108.1	2746
83	2117	72.6	1845	40.8	1038	113.6	2886
88	2223	76.2	1937	42.9	1090	118.9	3022
92	2328	79.8	2029	44.9	1141	124.2	3157
96	2434	83.5	2122	46.9	1193	130.6	3319
100	2540	87.1	2214	49.0	1245	137.0	3480
104	2646	90.7	2306	51.0	1297	142.5	3621
108	2752	94.4	2398	53.1	1349	148.1	3762
113	2858	98.0	2491	55.1	1401	153.9	3910
117	2963	101.6	2583	57.2	1453	159.8	4059
121	3069	105.3	2675	59.2	1505	165.4	4202
125	3175	108.9	2767	61.2	1557	171.0	4345

- The figures in the above table may differ depending on the installation environment.

Kensington Security System

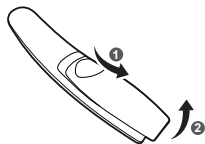
- This projector has a Kensington Security Standard connector as an anti-theft mechanism. Connect a Kensington Security System cable as shown below.
- For more information on installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
- 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 REMOTE CONTROL

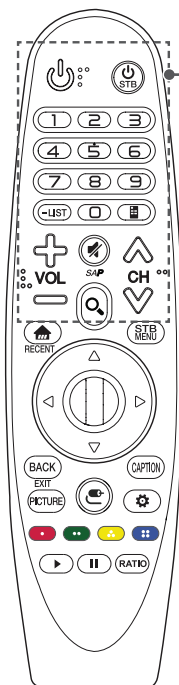
If the battery low message appears while using the Projector, replace the batteries.

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.



CAUTION

- Do not mix new batteries with old ones.



(POWER)

Turns the Projector on or off.

STB (STB POWER)

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.

- (Dash)

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

LIST

Accesses the saved channel list.

(Screen Remote)

Displays the Screen Remote.

- Accesses the Universal Control Menu in some regions.
- Pressing and holding the  (Screen Remote) button displays the **Accessibility** menu.

VOL

Adjusts the volume level.

(MUTE)

Mutes all sounds.

SAP *

Video descriptions function will be enabled.

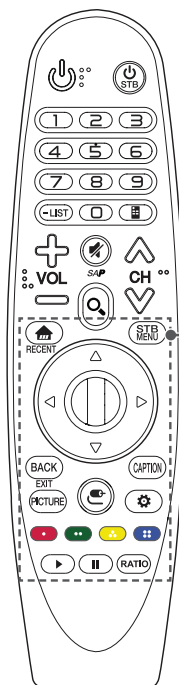
- **SAP** (Secondary Audio Program) Feature can also be enabled by pressing the  SAP key.

CH

Scrolls through the saved channels.

(SEARCH)

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



Accesses the Home menu.

RECENT *

Shows the previous history.

STB MENU

Displays the set-top box Home menu.

(When you are not watching with a set-top box the set-top box screen is displayed.)

△ ▽ ◀ ▶ (Up/Down/Left/Right)

Press the up, down, left or right button to scroll the menu.

If you press △ ▽ ◀ ▶ buttons while the pointer is in use, the pointer will disappear from the screen and Magic Remote will operate like a general remote control. To display the pointer on the screen again, shake Magic Remote to the left and right.

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.

EXIT *

Clears all on-screen displays and returns to Projector viewing.

PICTURE

Changes the picture mode.

CAPTION

Activates or deactivates the subtitles.

(INPUT)

Changes the input source.

– Pressing and holding the (INPUT) button displays all the lists of external inputs.

⚙️ (Q. Settings)

Accesses the Quick Settings.

– Pressing and holding the ⚙️ (Q. Settings) button displays the All Settings menu.

Colored buttons

These access special functions in some menus.

(●: Red, ●: Green, ●: Yellow, ●: Blue)

Control buttons (▶, ||)

You have access to premium content, video content and devices that support SIMPLINK.


RATIO

Changes the aspect ratio of the screen per pressing of the button.



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

To Register the Magic Remote Control



To use the Magic Remote control, register it with your projector first.

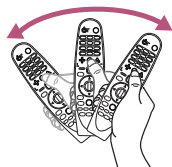
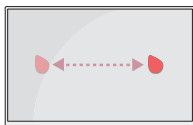
- 1 Put batteries into the Magic Remote and turn the Projector on.
 - 2 Point the Magic Remote at your projector and press the  **Wheel (OK)** on the remote control.
- If the projector fails to register the Magic Remote, try again after turning the projector off and back on.

To Re-register the Magic Remote Control

- 1 Press the  and **BACK** buttons at the same time, for five seconds, to unpair the Magic Remote with your projector.
 - 2 Press the  **Wheel (OK)** button towards the projector to re-register the magic remote control.
- Pressing and holding the **CAPTION** button will let you cancel and re-register Magic Remote at once.

Using the Magic Remote Control

- Shake the Magic Remote slightly to the right and left or press ,  (INPUT) buttons to make the pointer appear on the screen.
- If the pointer has not been used for a certain period of time or Magic Remote is placed on a flat surface, then the pointer will disappear.
- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- The Magic Remote depletes batteries faster than a normal remote due to the additional features.



CAUTION

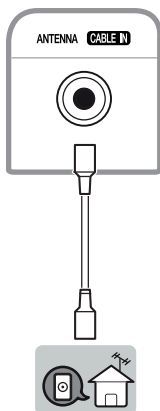
- Use the remote control within the specified range (within 10 m [32.8 feet]). You may experience communication failures when using the device outside the coverage area or if there are obstacles within the coverage area.
- You may experience communication failures depending on the accessories. Devices such as a microwave oven and wireless LAN operate in the same frequency band (2.4 GHz) as the Magic Remote. This may cause communication failures.
- The Magic Remote may not work properly if a wireless router (AP) is within 1 m (3.2 feet) of the projector. Your wireless router should be more than 1 m (3.2 feet) away from the projector.
- Do not disassemble or heat the batteries.
- Do not drop the battery. Avoid extreme shocks to the battery.
- Inserting a battery in the wrong way may result in explosion.

USING THE PROJECTOR

Connecting the Antenna or Cable

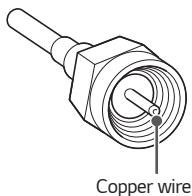
To watch TV using an indoor/outdoor antenna, connect a wall terminal and the antenna port of the projector using an RF cable (75 Ω).

You can watch terrestrial or cable (analog, digital) TV. (The RF cable is sold separately.)



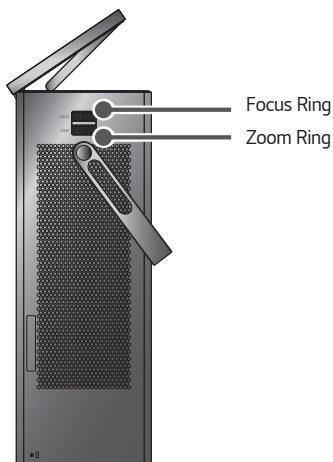
NOTE

- 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.





Focus of the Screen Image




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




- To bring images into focus, move the Focus Ring slowly left or right, concentrating on the upper central part of the screen. Optimal focus is reached when the left and right sides of the screen appear balanced.
- To adjust the size of the image, rotate the zoom ring. To move the screen image upward/downward, adjust the height of the foot at the bottom of the projector.

Watching With the Projector

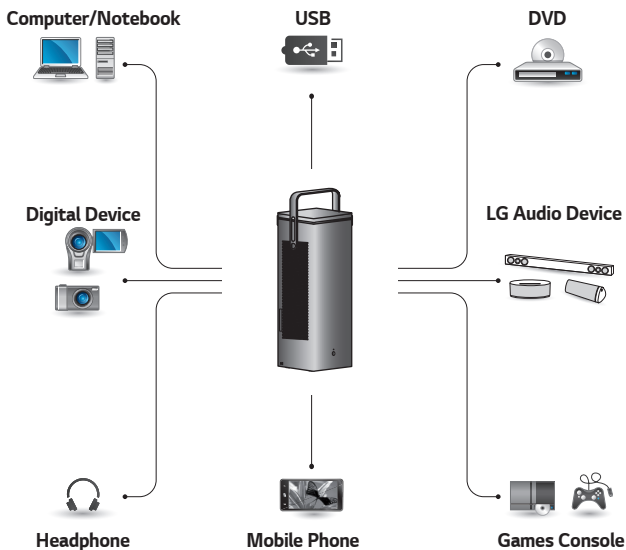
- 1 When in standby mode, press the  (POWER) button to turn the projector on.
- 2 Select the  (INPUT) → All Inputs and select the input signal you want.
- 3 Control the projector using the following buttons while watching projector.

Button	Description
 CH	Scrolls through the saved channels.
 VOL	Adjusts the volume level.
 (MUTE)	Mutes the sound of the projector.

- 4 To turn the projector off, press the  (POWER) button.

CONNECTING DEVICES

You can connect various external devices to the projector.



HDMI - Page 50, 51, 52

Headphone - Page 53


Digital Amp - Page 54

Smart device - Page 55

HDMI Connection

Connect an HD receiver, DVD, or external devices to the projector and select an appropriate input mode.

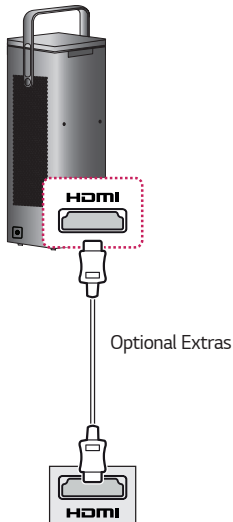
You can connect with any HDMI input port.

-  (INPUT) → All Inputs → **HDMI1/HDMI2**

Connecting to HD Receiver, DVD, or External Devices

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.



NOTE

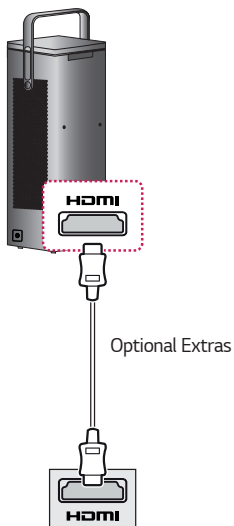
ARC (Audio Return Channel)

- External audio devices that support SIMPLINK and ARC must be connected using **HDMI2 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.

Connecting a PC

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

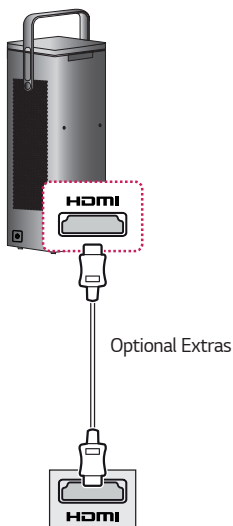
Using an HDMI cable, connect the **HDMI** port of the projector to the HDMI output port of your PC. Both video and audio are output at the same time.



Connecting a Laptop

You can connect the projector to a laptop to use various functions.

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



Examples of switching output settings when connecting a laptop

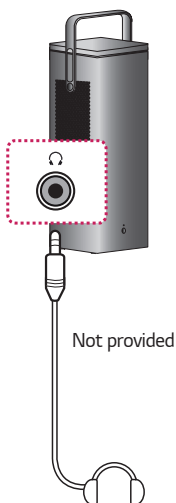
The table below shows examples of switching the output. For more information, refer to the **External Output, Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

Brand	Switching Output
NEC	[Fn]+[F3]
Panasonic	[Fn]+[F3]
Toshiba	[Fn]+[F5]
IBM	[Fn]+[F7]
Sony	[Fn]+[F7]
Fujitsu	[Fn]+[F10]
LG	[Fn]+[F7]
Samsung	[Fn]+[F4]
Macintosh	Adjust the control panel to enable mirroring after start-up.

Connecting Headphones

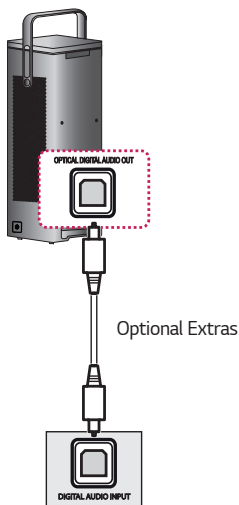
Connecting Headphones

You can listen to the audio through a headphone.



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 **Audio Out (Optical/HDMI ARC)**. 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 a smart device (smartphone, tablet, etc.)

-  (INPUT) → All Inputs → HDMI1/HDMI2
- The picture may look different from the actual product.

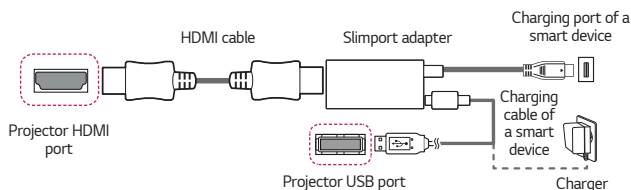
Connect a smart device to the projector using a cable¹⁾ and set the external input of the projector to HDMI. The smart device screen will then be displayed through the projector. You can connect with any HDMI input port.

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

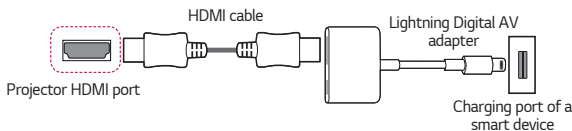
Supported smart devices may change depending on the circumstances of each manufacturer.

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

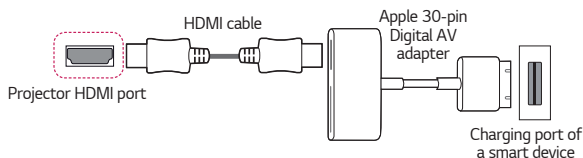
Slimport supported devices



Apple Lightning Digital AV adapter supported devices



Apple 30-pin Digital AV adapter supported devices



MAINTENANCE

Clean your Projector to keep it in optimal condition.

Cleaning

Cleaning the Lens

- If there is any dust or staining on the lens surface, you must clean the lens.
- To remove dust or stains on the lens, use a compressed air duster, cotton swab, or soft cloth to gently wipe the lens.
- Do not wipe the lens while the product is in use or immediately after it has been turned off.
- When cleaning the lens, do not use a cleanser, automobile or industrial shiner, abrasive, wax, benzene, alcohol, water, etc., as this may damage the product.

Cleaning the Projector Case

- To clean the projector case, first unplug the power cord.
- To remove dust or stains, use only a dry, lint-free, nonabrasive cloth to polish the lens.
- Do not use alcohol, benzene, thinners, or other chemicals, which may damage the case.

SPECIFICATIONS

MODEL	HU80KA (HU80KA-NA) HU80KS (HU80KS-NA)	
Resolution (Pixel)	3840 (Horizontal) × 2160 (Vertical) ¹⁾	
Aspect ratio	16:9 (Horizontal:Vertical)	
Projection distance (Screen size)	1147 mm ~ 4345 mm (45.1 inches ~ 171.0 inches) (1016 mm ~ 3810 mm [40 inches ~ 150 inches])	
Ratio of upward projection	100 %	
Power	AC 100 - 240 V, 50/60 Hz	
Power consumption	250 W	
Audio Output	7 W + 7 W	
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	470 mm (18.5 inches) (without foot), 474 mm (18.6 inches) (with foot)	
Width	165 mm (6.4 inches)	
Depth	165 mm (6.4 inches)	
Weight	6.7 kg (14.7 lbs)	
USB Device	USB1 (USB 3.0): 5 V, 1.5 A (Max.) USB2 (USB 2.0): 5 V, 0.5 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 %	

- Contents in this manual may be changed without prior notice due to upgrade of product functions.

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

HDMI (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
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

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
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) 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.

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.

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.





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.

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

P/NO : SAC37813513 (1903-REV01)

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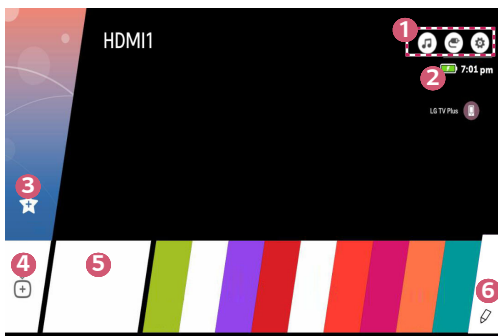
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ABOUT LG PROJECTOR

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.



Description	
1	 You can use your projector's other features while listening to music. <ul style="list-style-type: none"> This feature is available on certain models only.
	 You can switch to another input or change your settings.
	 You can easily change the settings of your projector. Select  for advanced setup.
2	Displays the remaining battery life. <ul style="list-style-type: none"> This feature is available on certain models only.
3	Add content you like to use, easily and quickly. (This feature is not supported in some countries. When you select the feature, you will be directed to the LG Content Store.)

	Description
4	By adding channels you like, you can check channel information and watch your desired channel easily and quickly.
5	This is a list of recently used apps. To access the list of recently used apps, select this item and then press and hold the Wheel (OK) or OK button. You can view all the apps you used recently in the list.
6	You can run, move, and delete all the apps installed on your projector.

Using Recent List

To access the list of recently used apps, press and hold the  button on your remote control, or press and hold a recently used item on the Home screen. You can run or exit all the apps you've used recently.

- The On Screen Display (OSD) of the projector may differ depending on the model.

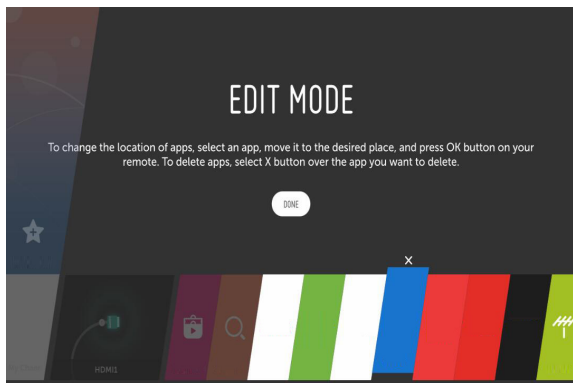


	Description
1	Exit the app.

Managing Apps

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

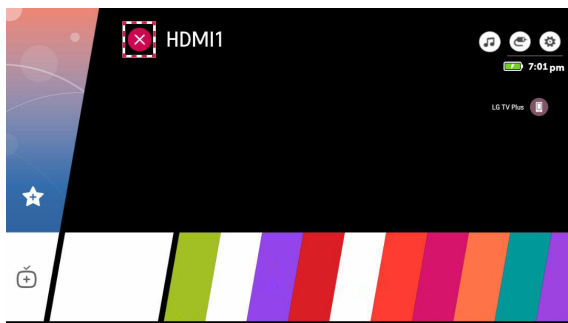
- Some apps cannot be edited.




- 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.
- 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 **X** 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 **Left/Right** buttons on your remote control.
- 3 When you have completed the edit, click **DONE** to exit the app edit mode.

Stopping the current function




- The On Screen Display (OSD) of the projector may differ depending on the model.



- 1 Press the  button on the remote control.
- 2 Select the application name at the top left corner of the screen by the Remote Control to display the Close icon.
- 3 Select the Close icon displayed next to the application name to quit the function in use.

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. Press the  button on the remote control. To see the details, select **Set-Top Box** from the device list that is displayed when operating the **Device Connector**.
- 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  → **Network** → **Wired Connection (Ethernet)**. This will start the wired network connection.
 - 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  → **Network** → **Wi-Fi Connection**. This will start the Wireless network 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 PROJECTOR

Using the Screen Remote

You can control external devices connected to your projector by using the Screen Remote displayed on your projector screen.

- This feature is available on certain models only.

- 1 Press the  button on the Magic Remote.
- 2 Using the Magic Remote, select your desired button on the Screen Remote displayed on your projector screen.








	Description
1	<p>Configure Set Up Universal Control for external devices connected to your projector.</p> <p>When you select a device, the Screen Remote turns into the remote control for the device.</p> <p>If a sound bar is connected, the Screen Remote can be used as a remote control for the sound bar.</p>
2	The buttons suitable for the selected device appear.
3	<p>You can capture your projector screen.</p> <ul style="list-style-type: none"> This feature is available on certain models only. You can view/delete screen-captured images in the Photo & Video app.
4	You will see more remote control buttons.
5	You can start the Device Connector app. You can set the universal remote control.
6	You can change the position of the screen remote control.

- This feature can only be used with the Magic Remote.
- You can purchase the Magic Remote separately if it is not provided.
- The types of buttons appearing on the Screen Remote vary, depending on the region and the type of connected device.
- Some features and services may not be provided depending on models or regions.

Setting Universal Control





You can control devices such as Set-Top Box, Blu-ray Player, or Home Theater using by Magic Remote or Slim Remote.

- This feature is available on certain models only.
- 1** Check that the device you want to set is connected to your projector.
- 2** Press the  button on the remote control and select  at the top right. (Press the  button on the remote control.)
- 3** Select **All Inputs** and go to **INPUTS**.
- 4** Select the input mode that the device is connected to in **INPUTS**.
- 5** If you press **Set Up Universal Control**, you can set up the Universal Control. Follow the instructions on the screen to finish the setup.
- If you want to change or cancel Universal Control Settings, go to  → **All Inputs** and select **Edit Universal Control**.
- You can also set the Universal Control in  → **Device Connector**.
- You can use this only with the Magic Remote or Slim Remote. (The provided remote control differ depending upon model.)
- You can purchase the Magic Remote separately if it is not provided.
- This feature is available in certain countries only.
- When changing the settings, check that the device to be changed is turned on.
- You can set one device per type.
- If you connect to a network before setting the Universal Control, the latest update for the supported manufacturer list becomes available.
- 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.

SIMPLINK (HDMI-CEC)

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  → **General** → **SIMPLINK (HDMI-CEC)**.
- 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  (**INPUT**) 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 Remote can be limited.

- **Main Power Off**

If **Auto Power Sync** is set to **On** in the **SIMPLINK (HDMI-CEC)** settings and the projector is turned off, the devices connected to your projector via SIMPLINK will also be turned off. Likewise, your projector will be turned off if you turn off a device connected to your projector via SIMPLINK.

- This feature is only available in certain devices.



- **Main Power On**

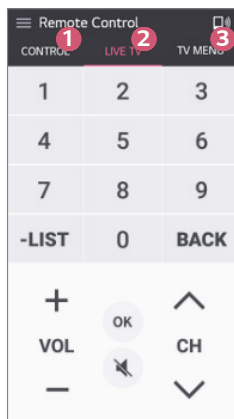
If **Auto Power Sync** is set to **On** in the **SIMPLINK (HDMI-CEC)** settings, turning on a SIMPLINK-linked device will turn the projector on.

- If **SIMPLINK (HDMI-CEC)** is set to **Off**, **Auto Power Sync** can not be set to **On**.

Using the LG TV Plus App

You can control the functions of your projector by using the app installed on your smart device.

- 1 Download LG TV Plus app from the Apple App Store or the Google Play Store, depending on the OS of each smart device.
- 2 Press the  (Q. Settings) button on the remote control and select  → **Network**.
- 3 Set **LG Connect Apps** to **On**.
- 4 Connect the projector and your smart device on the same Wi-Fi network.
- 5 Launch the LG TV Plus app on your smart device.
- 6 Tap the Start button to scan for projectors that can be connected to your smart device.
- 7 Select the projector you want from the list of search results. A PIN code appears on the projector screen.
- 8 Enter the PIN code in the LG TV Plus app to pair your smart device with the projector.
- 9 You can tap the buttons on your smart device's screen to control the projector.



	Description
1	You can use the same functions as the Magic 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.

Magic Mobile Connection


Using Magic Mobile Connection

Magic Mobile Connection lets you share and enjoy the content stored on people's smart devices through your projector.

- It is recommended that your Android smart devices run Lollipop or later versions of Android.

Connecting a Smart Device with Magic Mobile Connection

Set up a connection following the guide below:

- 1 Install the **LG TV Plus** app on the smart device.
 - 2 Connect both your projector and the smart device to the same network.
 - 3 Run the **LG TV Plus** app and set up a connection to your projector following the instructions shown on the screen.
 - 4 Press the  button, and a list of connected smart devices will appear on the right side of the screen.
 - 5 Select your desired smart device.
- Android smart devices will automatically attempt to reconnect when they enter the network zone after the initial connection has been established.

Sharing Content with Magic Mobile Connection

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.
- Supported features may vary depending on the country.
 - Supported features may vary depending on the version of your smart device's operating system.

Using a Keyboard and Mouse

Using a USB Wired/Wireless Mouse

Connect your mouse to the USB port. Use the mouse to move the pointer on the projector screen and select the menu you want.

- The right button and the special buttons on the mouse do not work.
- When using a wireless USB mouse/keyboard, the experience may be affected by the distance and wireless condition.

Using a USB Wired/Wireless Keyboard

Connect your keyboard to the USB port. You can enter text with the connected keyboard device.

- It is not possible to enter text on some screens.
- It is recommended that you use a product that has been tested for compatibility with LG projectors.
 - LOGITECH K360, LOGITECH K400, LOGITECH K750, LG Electronics MKS-1200
- You can change the input language by pressing the language switch key or the right Alt key. It can also be changed by pressing the Ctrl key and the Space key at same time.
- Wireless USB keyboard use may be affected by the usage range and the wireless environment.
- To enter text in the text field, use the on-screen keyboard on your projector screen or a USB keyboard.

Using a Gamepad

Connect your gamepad to the USB port on the projector if the game requires a gamepad.



- It is recommended that you use a gamepad that has been tested for compatibility with LG projectors.
 - LOGITECH F310, LOGITECH F510, LOGITECH F710, LOGITECH Rumblepad 2, LOGITECH Cordless Rumblepad 2, LOGITECH Dual Action Gamepad, MICROSOFT Xbox 360 Controller (cable), SONY Playstation(R)3 Controller

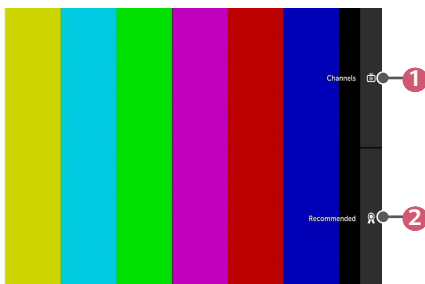
ENJOY LIVE TV

Live Menu

Using Live Menu

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

- 1 Run **Live TV** by pressing .
- 2 Press  button (on the right) on the remote control or move the Magic Remote pointer to the right side of the projector screen.



	Description
1	View a list of broadcast content that is currently being broadcast.
2	Get channel and program recommendations based on your viewing history.


- 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.
- You must have a network connection with Internet access to use the Program Recommendation feature in Recommended List.
- To receive proper recommendation services, you need to set up your network, region and auto tuning.
- Options may vary depending on the country.

My Channels

Using My Channels

If you add channels to **My Channels**, you can check and watch the programs being broadcast in the added channels of any app.


Adding a Channel

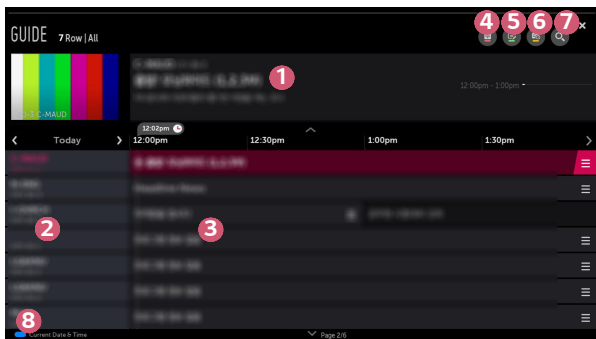
- 1 Press the  button on your remote control.
 - 2 Select **My Channels** at the bottom left of the screen.
 - 3 Selecting **Add Channel** displays a list of channels.
Select the channel you want to add from the channel list.
 - You can continue to add other channels to **My Channels** in the same way.
- To add set-top box channels, you need to set **Setup universal control** in **Device Connector** and use a Magic Remote. (This feature is available on certain models only.)
 - To switch to a set-top box channel, you need to select among the added channels using your Magic Remote. (This feature is available on certain models only.)
 - If you select a channel already added in **My Channels**, you can access the channel in other apps as well.
 - You can move/delete added channels in the same way as when you manage apps.



Guide


Viewing Guide

You can view programs and the schedule of each program.

- 1 Press the  button on the remote control.
- 2 You can launch the **Guide** application.



	Description
1	You can view information about the program you are currently watching as well as the focused program information.
2	Displays the information of the broadcasting company.
3	Navigate to a desired program and press the  Wheel (OK) or  OK . You can view more information on the program and perform WATCH or REMINDER , etc.
4	Sets the filter.
5	Launch CHANNEL MANAGER .

	Description
6	Launch TV Scheduler .
7	Launch SEARCH .
8	Press the remote control's  button to navigate to the Guide screen for the current date and time.

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 Remote.



- This function is available on certain models or in certain countries only.

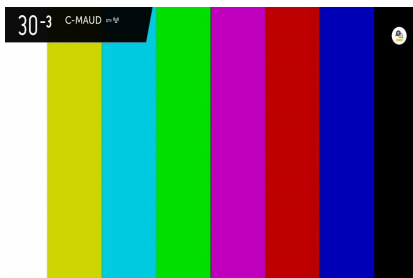
Checking Program Info

Viewing Program Information

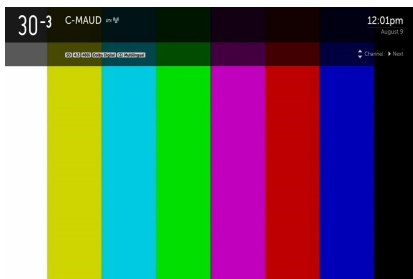
Information about the program you are currently watching, the current time, etc. are displayed.

- The On Screen Display (OSD) of the projector may differ depending on the model.

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



- 2 Select the Channel Banner. You can view detailed information about the program you are currently watching.



Using the $\triangle/\nabla/\triangleleft/\triangleright$ buttons on your remote control, you can view information about upcoming programs or other channels without changing the channel.

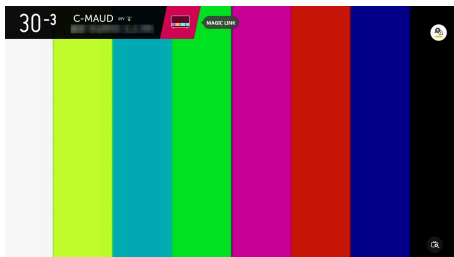
- You can view broadcast information about other channels using the \triangle/∇ buttons.
- You can view broadcast information about the channel you are currently watching using the $\triangleleft/\triangleright$ buttons.

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 remote control's **Wheel (OK)** or **OK** button or move the pointer to the top of the screen. The Channel Banner appears.

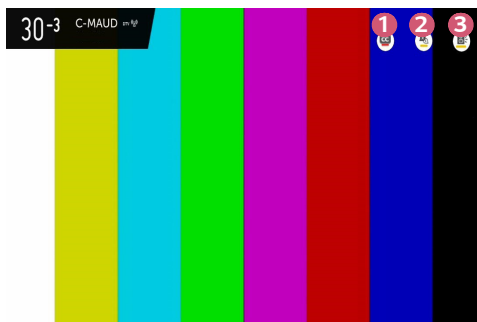


- 2 Press the **MAGIC LINK** button in the Channel Banner.
- 3 Various kinds of information related to the program you are watching will appear at the bottom of the screen. Select the desired information.
 - The search range may vary depending on the country.
 - While **MAGIC LINK** is in use, the content provided may not always match the program that you are watching at the time. Change the channel with the Magic 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 Advanced Broadcast Settings

If the broadcast you are watching contains **Closed Caption**, **AUDIO LANGUAGE**, or **Multi Audio** information, you can use such features.

- 1 Press the **Wheel (OK)** or **OK** button on your remote control.
- 2 Select your desired feature in the top of the screen and set the feature to your desired value.



	Description
1	You can set Closed Caption .
2	You can set AUDIO LANGUAGE . <ul style="list-style-type: none"> • Only available with digital broadcasts.
3	You can set Multi Audio . <ul style="list-style-type: none"> • Only available with analog broadcasts.


- Available features may vary depending on the broadcast signal.

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.

- This feature is available in certain countries only.
- Features may be limited in certain countries.
- Content may differ depending upon the model or country.
- 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 such as the Internet browser. Restrictions can be set in  (**Q. Settings**) → 
→ **Safety** → **Application Locks**.

Recommended Content on the Main Screen


The main screen of the **LG Content Store** shows the most popular content for each category. Select any content to view its details.

- Internet connection is required to use this feature.

Creating Wish List

Using My Content



By adding your desired content to **My Content**, you can use the content easily and quickly anytime.

- 1 Press the  button on your remote control.
- 2 Select **My Content** in the top left of the screen.
- 3 Select **Add Content**.
- 4 Search for content.
- 5 Select your desired content from the search results to add it to **My Content**.
 - You can also select from among recommended content shown under the search box and directly add it to **My Content**.
 - This feature is only available in certain countries.
 - The type of content you can add to **My Content** may vary depending on the country.
 - You must have a network connection to use this feature.
 - You can move/delete added content in the same way you manage apps.
 - Some of the content services added to **My Content** may not be available if the service has been terminated due to the provider's circumstances.

Account Creating

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.
 - Internet connection is required to create an account.
 - Required information may vary depending upon the country.
 - Existing IDs that do not use an email address can be converted to your email address.
 - You can log in with your Facebook or Google account. (Features other than login may not be available.)
 - You may be restricted from the service depending upon your age.

Account Management

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.

This feature is available in certain countries only.

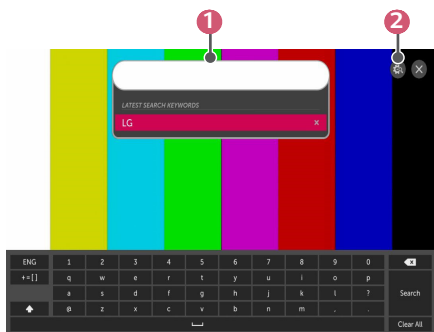
Search Content

Search

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

Searching for Content

- 1 Run **Search** by pressing the **Q (SEARCH)** button on your remote control.
- 2 Search for a variety of content and information by typing in your desired search terms.




	Description
1	Enter your desired search term.
2	Change the settings of the features provided by Search . <ul style="list-style-type: none"> • 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 use your LG account to install various apps on your projector.

- 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.

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 Read the details of the content and then press **Watch Now**.
- 6 Select a playback option. An app may be required to play the content with the selected playback option. If not installed, install the app to play the content.
- 7 The content is played using the selected option.
 - This feature is only available in certain countries.
 - Available categories may vary depending on the country or service status.
 - Adult authentication is required for playing adult content.

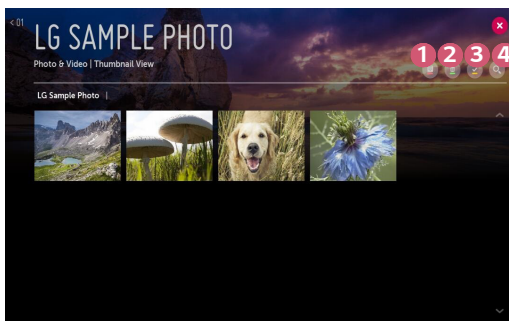
PLAY OTHER DEVICE FILES

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.

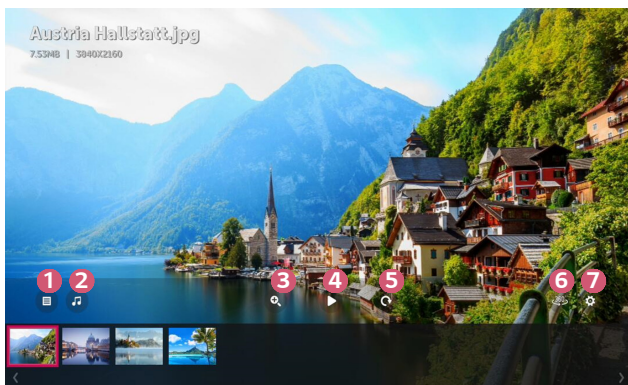


	Description
1	Select your desired type of content and viewing method.
2	Select and delete your desired content. (You cannot delete files that are shared from other devices.)
3	Select the content you want to play. You can only select the same type of content as you first selected.
4	Launch Search .

- 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.



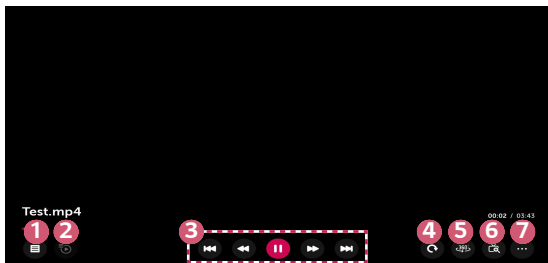
	Description
1	Returns to the entire content list.
2	You can play background music by running the music player.
3	You can zoom the photos in/out.
4	Starts the slide show.
5	Rotates photos.
6	360-degree photos can be viewed in 360 degrees. <ul style="list-style-type: none"> Using the 360-degree mode on a normal photo may distort the image. This feature is available on certain models only.
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)

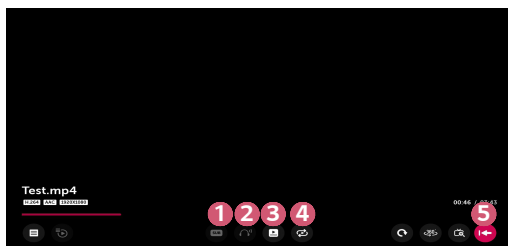
Video Player

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



	Description
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. <ul style="list-style-type: none"> This feature is available on certain models only.
5	360-degree videos can be viewed in 360 degrees. <ul style="list-style-type: none"> Using the 360-degree mode on a normal video may distort the image. This feature is available on certain models only.
6	By zooming in the projector screen, you can view images in a larger size than the originals.
7	You can set additional options.

Setting Additional Options



	Description
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	You can set continuous playback. If continuous playback is set, the next video is automatically played after the playback of a video is over.
5	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 40 Mbps
 - HEVC 1920 x 1080@60P MP@L4.1, Main10 Profile@L4.1 40 Mbps
- ULTRA HD video (ULTRA HD model only)
[Depends on the model.]
 - H.264 4096 x 2160@60P BP/MP/HP@L5.1 60 Mbps
 - HEVC 4096 x 2160@60P MP@L5.1, Main10 Profile@L5.1 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)
.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
.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
.rm .rmvb	Video	RV30, RV40
	Audio	Realaudio6 (cook), AAC LC, HE-AAC

- .rm, .rmvb: This function is available on certain models or in certain countries only.

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.
- Playable file sizes may vary depending on the encoding conditions.
- 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.

ULTRA HD video (ULTRA HD model only)

[Depends on the model.]


- 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.

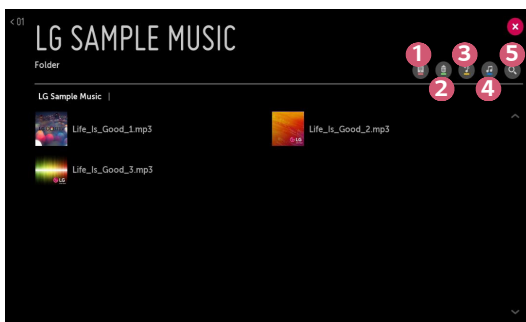
Extension	Codec	
mkv / mp4 / ts	Video	H.264/AVC, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC

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.

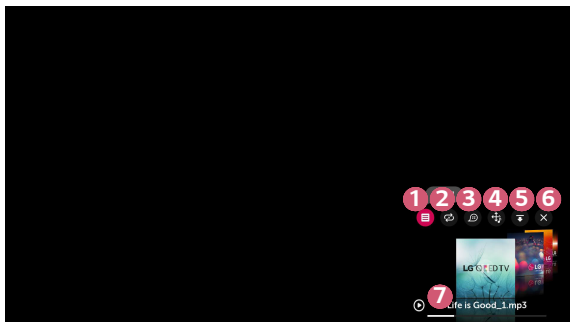




	Description
1	Select the desired type of content list.
2	Select and delete content. (Files shared from other devices cannot be deleted.)
3	Select content and add it to MY PLAYLIST .
4	Open the music player.
5	Launch SEARCH .

- 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.



	Description
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.

	Description
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	<p>Lyrics are available for music files that provide them. In some music files, you can choose a lyric section and move the playback position.</p> <ul style="list-style-type: none"> • 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   **VOL** buttons on your remote control.
- You may not be able to use the music player for some features.
- You can also run the music player as follows:
 - Select  in the **Music** app.
 - Select  while viewing photos in the **Photo & Video** app.

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.



	Description
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



	Description
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

XLS, XLSX, DOC, DOCX, PPT, PPTX, TXT, PDF, HWP

Microsoft Office 97/2000/2002/2003/2007/2010/2013/2016 version

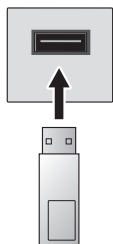
Adobe PDF 1.0/1.1/1.2/1.3/1.4 version

Hangul 2007 version

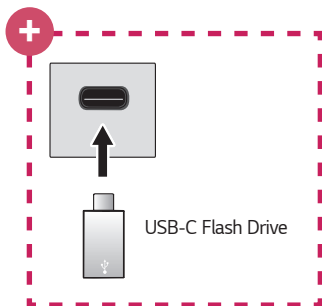
- File Viewer realigns a document, so it may look different from what is displayed on a PC.
- For documents that include images, the resolution may look lower during the realigning process.
- If the document is large or has many pages, it may take longer to load.
- Unsupported fonts may be replaced by 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.

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.



USB Flash Drive





USB-C Flash Drive



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 flash drive 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.
- Select the connected USB from **INPUTS** and select the **EJECT** button to disconnect the USB storage device.
If you disconnect the USB storage device without selecting **EJECT**, an error may occur in your projector or storage device.
You can open **INPUTS** by selecting  (**INPUT**) → **All Inputs**.
- For more information on other connection methods, go to  → **Device Connector**.
- Select the connected USB from **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.

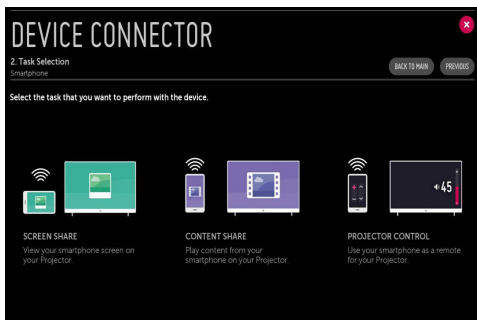
Share Smart Phone

Content Share with Smartphone

Content Share allows you to enjoy videos, music, and photos saved on your Smartphone that is connected to the same network.

Connecting to a smartphone with your projector

- 1 Press the  button on the remote control.
- 2 Launch the **Device Connector** application.
- 3 Select the **Smartphone**.
- 4 Follow instructions in **Device Connector**.




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.
- 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.

View Smart Phone

To see the Mobile Device's screen on the projector

- 1 Press the  button on your remote control.
 - 2 Launch the **Screen Share** application.
 - 3 Enable Miracast mode on the mobile device.
 - 4 Your projector will be displayed in the list of available devices in the menu.
 - 5 Select your projector to start connecting.
 - 6 A message saying Connecting... will appear to start the connection.
 - 7 When 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.
 - 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.
 - **LISTEN MODE** may affect the performance of your wireless connection when connected to an AP. If there are any issues related to wireless performance, it is recommended to turn off **LISTEN MODE**.
 - If connection fails repeatedly, turn off the projector and the device you want to connect to, then turn them back on and try again.

Share PC

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 the computer operating system is Windows 7, Windows 8.1, or Windows 10, you can play music, video, or photos on your projector without installing an additional program.

- 1** Configure the projector and PC on the same network. Also configure the network on the PC installed with Windows 7, Windows 8.1, or Windows 10.
 - 2** Right-click the desired music, video, or photo file, and select the model using the Play To function provided in Windows 7, Windows 8.1, or Windows 10 to play what is selected.
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. 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.
 - You can check the website information from  → **Device Connector** → **PC** → **CONTENT SHARE**.
 - 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.

View PC

To see the PC screen on the projector

Connect wireless

- 1 Press the  button on the remote control.
 - 2 You can launch the **Screen Share** application.
 - 3 Add a wireless connection device on your PC.
If the operating system of your PC is Windows 7 or Windows 8.1, run **Intel® WiDi**.
 - 4 Your projector will be displayed in the list of available devices.
 - 5 Select your projector and request connection.
 - 6 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.
 - It supports the connection over the Intel® WiDi 3.5 version.
 - 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 you turn on **LISTEN MODE**, it may affect the performance of your wireless connection when connected to an AP. If there are any issues related to wireless performance, turn off **LISTEN MODE**.
 - For more information, refer to the **Screen Share** app.
 - 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

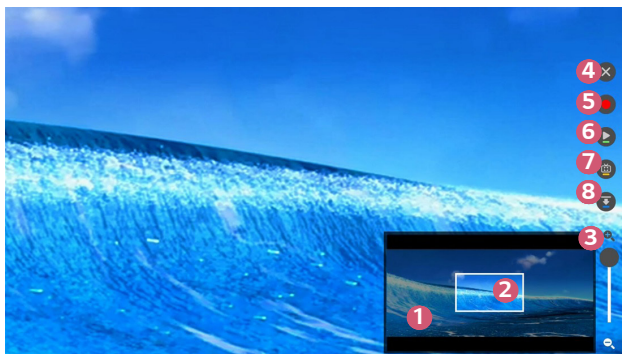
Connect the PC with projector by HDMI cable.

BENEFITS OF SMART PROJECTOR

Zooming in the Projector Display

By zooming in the projector screen, you can view images in a larger size than the originals.

While watching a broadcast or playing a video, press the ^{LIVE}ZOOM button on the remote control or the **Wheel (OK)** button on Magic Remote to select **START LIVE ZOOM** displayed in the bottom right corner of the screen.



	Description
1	The original screen before enlargement is displayed on the subscreen.
2	This indicates the enlarged area that is displayed on the main screen.
3	You can zoom in and out on the main screen using the magnification bar.
4	Press this button to end the live zoom function. <ul style="list-style-type: none"> This feature is available on certain models only.

	Description
5	<p>If watching video in a USB storage device</p> <p>You can start recording by zooming in the video on your USB storage device. For more information, refer to the Zoom Recording.</p> <ul style="list-style-type: none"> • This feature is available on certain models only. • This feature can only be used with the Magic Remote.
6	<p>You can pause or resume your current screen.</p> <p>If you execute on resume while watching a broadcast, you will see the current broadcast screen.</p>
7	<p>You can capture your current screen.</p> <p>You can view captured images in the Photo & Video app.</p>
8	<p>You can hide the sub screen.</p>

- To exit the feature and return to the original screen, press **LIVE ZOOM** or **EXIT**. You can also exit this feature with the **BACK** button on your remote control.
- If you change the channel or run another app on an enlarged screen, the feature closes.


Moving the Position of an Enlarged Screen

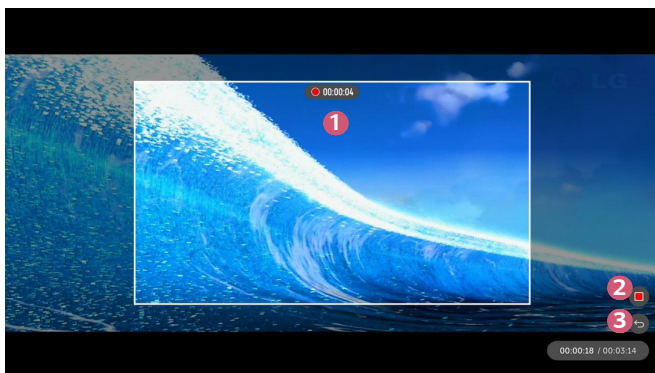
- Method 1. On the main screen, move the pointer on the Magic Remote to your desired position and press **Wheel (OK)** button.
- Method 2. Using the pointer on your Magic Remote, drag the enlarged area on the subscreen into your desired position.
- Method 3. On the subscreen, select the area you want to enlarge using the Magic Remote.
- You can also move the screen using the **△/▽/◀/▶** buttons on your remote control.

Zoom Recording

Running Zoom Recording

By zooming in the video content in your USB storage device, you can run **Zoom Recording**.

- This feature is available on certain models only.
- 1 Press the **LIVE ZOOM** button on your remote control while watching a video in **Photo & Video**. Or, Press the **Wheel (OK)** button on your magic remote and select **START LIVE ZOOM** at the bottom right of the screen.
 - 2 If you press  on the right side of the screen, **Zoom Recording** starts.



	Description
1	<p>It shows the zone where Zoom Recording is running. You can adjust the magnification by scrolling with the Wheel (OK) button on the Magic Remote.</p> <ul style="list-style-type: none"> • To move the recording zone, move the Magic Remote pointer to a desired position of the screen and press the Wheel (OK) button. • Or, drag it using the pointer of Magic Remote and move it to the desired position.
2	Stop and save Zoom Recording .
3	Without saving the content of Zoom Recording , return to the previous Live Zoom status.



- This feature can only be used with the Magic Remote.
- You can use this function only for video content stored on your USB storage device.
- **Zoom Recording** files are stored in the same location where the original video content is stored.
- If original video content is deleted, **Zoom Recording** files cannot be played.
- **Zoom Recording** files can be played only on an LG projector that supports the function.

Using My Starter

My Starter lets you view information through your projector, such as the current time, weather, and schedules you have added to your smart device.

- By setting up **My Starter** on your projector or in the **LG TV Plus** app, you can make **My Starter** run automatically at a specified time with your projector being turned on.
- Some features are available only after you install the **LG TV Plus** app on your smart device.

Setting Up on Your projector


- 1 Press the  (**Q. Settings**) button on your remote control.
- 2 Select  → **General** → **Timers** → **Timer Power On** → **Set My Starter** and set the option to **On**.

Setting Up in 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 network.
- 3 Run the **LG TV Plus** app installed on your smart device.
- 4 Select **My Starter** in the **LG TV Plus** app and set the options.

Viewing a Schedule with My Starter

Set up schedule sharing with your projector in the **LG TV Plus** app following the instructions, and then you can view the schedules added to your smart devices on your projector.

- The On Screen Display (OSD) of the projector may differ depending on the model.
- 1 Press the  button.
 - 2 **RUN MY STARTER** by selecting the time displayed in the upper right corner of the screen.
 - If there is no time displayed, set up the time for your projector.




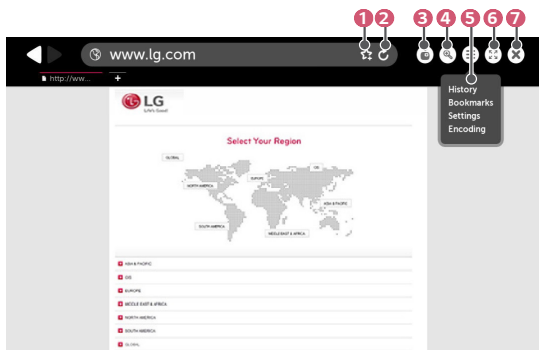
- If multiple smart devices have been set up to share schedules with your projector, the schedule on the last smart device set up for schedule sharing is provided.
- You can use schedule sharing without configuring **Set My Starter**.

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.




	Description
1	You can add the current page to the Home screen, or add or delete the current page in Bookmarks . (A page added to the home screen can only be deleted on the home screen. In this case, it is not deleted from Bookmarks .)
2	Reloads the current page.
3	You can turn on/off Mini TV.

	Description
4	Zooms in or out of the screen.
5	<p>History: You can open or delete the history list.</p> <p>Bookmarks: You can open or delete the bookmark list.</p> <p>Settings: You can configure simple settings for the browser.</p> <p>Encoding: You can change the language when the content is not properly displayed on the web page.</p>
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.
- Since the **Web Browser** is a projector browser, some of the content may not play properly.
- Caution is required for children accessing inappropriate content since this product can be connected to the Internet.
- Access to some of the apps, including the Web Browser, may be restricted in order to block inappropriate online content.
- 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.

- **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**

- **Approved Sites**: You can configure the settings to open the previously registered web pages only.

- **Blocked Sites**: You can configure the settings to block specific websites.


* To use the **Site Filtering** function, you should enter the projector password.

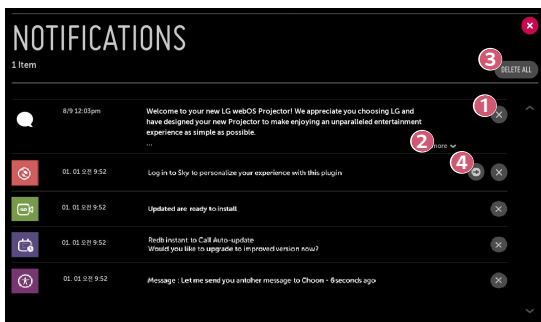
The initial password is set as "0000".

Notifications

Using Notifications

The **Notifications** transfers real-time notifications from various apps and LG services. It shows the status of apps that are currently running and allows you to view, delete, and run all notifications in one place.

- 1 Press the  button on the remote control.
- 2 Launch the **Notifications** application.




	Description
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

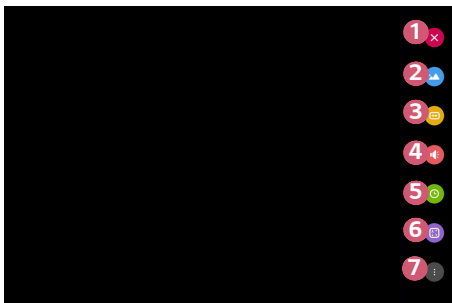
The options may differ depending on the model.

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.



	Description
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	You can set more options.

Picture Settings

Smart Picture Mode

 (Q. Settings) →  → **Picture** → **Smart Picture Mode**

When this is enabled, the projector will automatically adjust to the optimal picture settings based on data it receives on the genre of the program being played. Set the option to **On** to enable this mode.

- If you enable this feature, you cannot set **Picture Mode** manually.
- Only available with digital broadcasts.
- Channels connected to HDMI do not support **Smart Picture Mode**.
- This feature is available in certain countries only.

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 options may differ depending on the 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/Expert (Bright Room)/Expert (Dark Room)**
Allows an expert, or anyone who loves picture quality, to tune to the best picture quality.
 - This feature is available on certain models only.

Picture Mode Settings



 (Q. Settings) →  → **Picture** → **Picture Mode Settings**

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

- **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.
- **V Sharpness**
Adjusts the sharpness of the contrast edge in the vertical direction.
- **H Sharpness**
Adjusts the sharpness of the contrast edge in the horizontal direction.
- **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**.
 - Depending upon the input signal or the selected picture mode, the available options may differ.
- **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

Adjust screen settings for individual picture modes.

 (Q. Settings) →  → **Picture** → **Picture Mode Settings** → **Advanced Controls**

- **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.

- **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.
- **Edge Enhancer**
Shows clearer and distinctive yet natural edges of the video.
- **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 a function used by experts when they adjust Colors using a test pattern of six colors (**Red/Green/Blue/Cyan/Magenta/Yellow**) without affecting other color areas. For normal images, adjustments may not result in noticeable color changes.
 - Depending upon the input signal or the selected picture mode, the available options may differ.



Picture Options

 (Q. Settings) →  → **Picture** → **Picture Mode Settings** → **Picture Options**

Adjust detailed settings to further optimize the picture.

- **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.
- **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.
 - **Clear Plus:** Makes fast-moving pictures clearer using the backlight control.
 - **User:** Sets **De-Judder/De-Blur** 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.
- Depending upon the input signal or the selected picture mode, the available options may differ.
- The configurable items differ depending upon model.

Aspect Ratio

 (Q. Settings) →  → **Picture** → **Aspect Ratio Settings** → **Aspect Ratio**

The options may differ depending on the model.

Depending upon the input signal, the available screen sizes may be different.

- **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.

- If the screen shows a low battery message, the Energy Saving mode will be changed to Maximum and will be disabled.
 - This feature is available on certain models only.

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.

Focus Test

 (Q. Settings) →  → **Picture** → **Focus Test**

Checks the focus of the projector image.

To focus the image, use the **Focus Test** function to slowly adjust the focus ring to the left or right while viewing the **+** mark on the screen. Optimal focus is reached when the left and right sides of the screen appear balanced. Make sure the product does not move when adjusting the focus.

- This feature is available on certain models only.

Sound Settings

Smart Sound Mode

 (Q. Settings) →  → **Sound** → **Smart Sound Mode**

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.
- This feature is available on certain models only.

Sound Mode

 (Q. Settings) →  → **Sound** → **Sound Mode Settings** → **Sound Mode**

- **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

You can only use **Virtual Surround Plus/ULTRA Surround**, **Equalizer**, and **Reset** if **Sound Mode** is set to **Standard**.

The options may differ depending on the 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.
- **Virtual Surround Plus/ULTRA Surround**
Enjoy an immersive soundscape with the virtual multi-channel surround sound effect.
- **Equalizer**
You can set the desired sound by adjusting the equalizer directly.
(100 Hz/300 Hz/1 kHz/3 kHz/10 kHz)
- **Reset**
You can reset the sound effect settings.

Sound Out

The options may differ depending on the model.

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.

Playing audio through an external audio device connected to the digital optical port or the HDMI(ARC) port


Projector audio is played through an external audio device connected to the digital optical port or the **HDMI(ARC)** port. Enable SIMPLINK to play audio through **HDMI(ARC)**.

- If you select **Off** while SIMPLINK is enabled, the audio output setting is restored to the default setting in order to ensure uninterrupted audio output.

- **For PF50K model only:**

 (Q. Settings) →  → **Sound** → **Sound Out** → **Audio Out (HDMI ARC)**

- **For HU80K model only:**

 (Q. Settings) →  → **Sound** → **Sound Out** → **Audio Out (Optical/HDMI ARC)**

Configuring digital sound output settings

- For PF50K model only:

 (Q. Settings) →  → **Sound** → **Sound Out** → **Audio Out (HDMI ARC)** → **Digital Sound Out**

- For HU80K model only:

 (Q. Settings) →  → **Sound** → **Sound Out** → **Audio Out (Optical/HDMI ARC)** → **Digital Sound Out**

- These settings are available only when an **Audio Out (Optical/HDMI ARC)/ Internal Projector Speaker + Audio Out (Optical)** is selected.

You can configure the **Digital Sound Out** settings.

	Sound Input	Digital Sound Output
Auto	MPEG	PCM
	Dolby Digital	Dolby Digital
	Dolby Digital Plus	(Optical) Dolby Digital ¹⁾ (HDMI ARC) Dolby Digital Plus
	HE-AAC	Dolby Digital
	DTS	DTS / PCM
	DTS Express	DTS / PCM
	DTS-HD MA	PCM / DTS
PCM	All	PCM

1) Only available for models with an optical digital port.

Connecting and Using an Audio Device Supporting LG Sound Sync (Optical)

 (Q. Settings) →  → Sound → Sound Out → LG Sound Sync (Optical)

You can connect an audio device that supports **LG Sound Sync (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.



Connecting and Using an Audio Device Wirelessly

 (Q. Settings) →  → Sound → Sound Out → LG Sound Sync / 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.
- 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 the connected device.
- 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.
- Using Bluetooth speakers that support Dual mode/Double mode/2-Channel mode together with the Magic Remote may limit the speakers' usability.

Using Audio Out (Line Out)/Wired Headphones

 (Q. Settings) →  → **Sound** → **Sound Out** → **Audio Out (Line Out)/Wired Headphones**



Select **Wired Headphones** or **Audio Out (Line Out)** to optimize audio output according to the device connected.

- 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 + Audio Out (Optical)**

 (Q. Settings) →  → **Sound** → **Sound Out** → **Internal Projector Speaker + Audio Out (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.

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.

This feature is available on certain models only.

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 minus sign (-), the faster the audio output time. The closer to the plus sign (+), the longer the audio output speed compared to the default.

(However, if **Sound Out** is set to **LG Sound Sync / Bluetooth**, the audio output speed can only be set faster. In this case, the closer to the plus sign (+), the faster the audio output speed compared to the default.)

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.

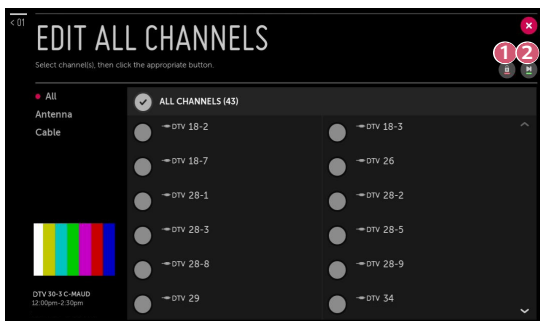
Channel Manager

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.



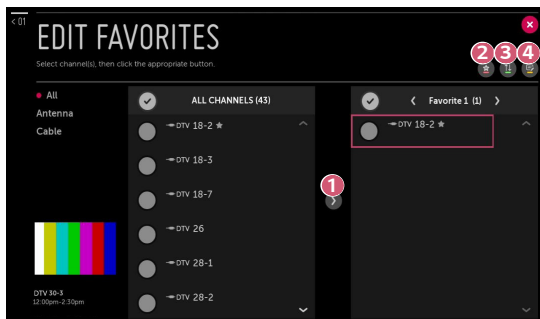
	Description
1	Lock the selected channels or unlock the locked channels.
2	Set the selected channels to be skipped when switching channels, or disable the skipping option of the channels previously set to be skipped.

- 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.



	Description
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 two channels from the favorite channels list, then press the button to swap their positions.
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. (This feature is available in certain countries only.)

Channel Advisor

 (Q. Settings) →  → Channels → Channel Advisor

If you set **Channel Advisor** to **On**, you can get channel or program recommendations from **Live TV** based on your viewing history.

Multi Audio

 (Q. Settings) →  → Channels → Multi Audio

Sets the options related to the audio.

- Available settings may differ by the program.

Network

Projector Name

 (Q. Settings) →  → **Network** → **Projector Name**

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

- Up to 30 characters can be entered using the English alphabet.

Wired Connection (Ethernet)

 (Q. Settings) →  → **Network** → **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.

Wi-Fi Connection

 (Q. Settings) →  → **Network** → **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.

Wi-Fi Direct

 (Q. Settings) →  → Network → Wi-Fi Direct

Wi-Fi Direct is a function that allows your projector to connect with a Wi-Fi Direct-enabled device without a Wireless Router. You can open files stored on the devices that are connected via Wi-Fi Direct in the **Photo & Video** app and the **Music** app.

- 1 Enable Wi-Fi Direct on the device to which you want to connect.
- 2 A list of devices that can be connected to the projector is displayed.
- 3 Select a device to connect.
- 4 If the desired device accepts the request, Wi-Fi Direct will be connected.
- 5 From your desired connected device, select the video, music and photo files that you want to open on your projector via the LG TV Plus app or the content sharing feature.
- 6 You can open files stored on the devices that are connected via Wi-Fi Direct in the **Photo & Video** app and the **Music** app.

LG Connect Apps

 (Q. Settings) →  → Network → LG Connect Apps

LG Connect Apps Provides apps, like photo sharing or mobile-device remotes, with the ability to access and control certain features of your projector.

Set the **LG Connect Apps** option to **On**. (When you stop using it, please change it back to **Off**.)

- If you want to disconnect all devices from your projector, click the **REVOKE PAIRING** on your screen.

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.

- **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.

- **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.

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

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.

Set My Starter

 (Q. Settings) →  → **General** → **Timers** → **Timer Power On** → **Set My Starter**

If you set my starter on your projector or LG TV Plus App in mobile device; you can receive personalized information, such as the weather and schedules, through your projector. Set **Set My Starter** to **On**.

- The configurable items differ depending upon country.
- You can view weather information only when you are connected to a network.

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.

Mobile Projector On

 (Q. Settings) →  → General → **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.
- This feature is only available in certain countries.
- This feature is available on certain models only.

SIMPLINK (HDMI-CEC)

 (Q. Settings) →  → General → **SIMPLINK (HDMI-CEC)**

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

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.

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.

PJT Mode

 (Q. Settings) →  → **General** → **PJT Mode**

This function turns the projected image upside down or flips horizontal.

Auto Power

 (Q. Settings) →  → **General** → **Auto Power**

Makes the projector turn on automatically when the power cord is connected to the projector. However, battery-equipped models will immediately turn on once the power switch is put to **ON**.

- **For PF50K model only:**
 - **On:** When the projector's power switch is switched **ON**, the projector turns on.
 - **Off:** When the projector's power switch is switched **ON**, the projector goes into standby mode.
- **For HU80K model only:**
 - **On:** When the power code is connected to the projector, it turns on automatically.
 - **Off:** When the power code is connected to the projector, it goes into standby mode.

High Altitude

 (Q. Settings) →  → **General** → **High Altitude**

If the projector is used at an altitude higher than 1200 meters (3,937.0 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.

- This feature is available on certain models only.

LG Wireless Keyboard

 (Q. Settings) →  → **General** → **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**.
- This feature is available on certain models only.

Settings Help

 (Q. Settings) →  → **General** → **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** → **Screen Saver**

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

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.

About This Projector

 (Q. Settings) →  → **General** → **About This Projector**

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

Self Diagnosis

 (Q. Settings) →  → **General** → **Self Diagnosis**

Troubleshoots functional problems that can arise while using the product.

HDMI ULTRA HD Deep Color

 (Q. Settings) →  → **General** → **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)

Resolution	Frame rate (Hz)	Color Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 × 2160p 4096 × 2160p	50	YCbCr 4:2:0	YCbCr 4:2:0 ¹⁾	
	59.94	YCbCr 4:2:2 ¹⁾		
	60	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.
- This feature is available on certain models only.

Switching Projector Modes

 (Q. Settings) →  → **General** → **Home/Store Mode**

You can choose between **Home Mode** and **Store Mode**.

To use the projector at home, select **Home Mode**.

Store Mode only when the projector will be displayed in store. Select the Store mode for settings optimized for store display.

Safety Settings

- Set **Safety** to **On**.
- The initial password is set as "0000".
- 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:** (Recommended Language) **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.
- This feature is available in certain countries only.

TV Rating English

Select Canadian English Rating System.

- This feature is available in certain countries only.
- **None**: View all programs
- **E**: Exempt
- **C**: Children
- **C8+**: Children aged 8 or older
- **G**: Suitable for viewing by all ages
- **PG**: Parental guidance advised
- **14+**: 14 or older
- **18+**: Adult program

TV Rating French

Select Canadian French Rating System.

- This feature is available in certain countries only.
- **None:** View all programs
- **E:** Exempt
- **G:** General
- **8+:** Not suitable for general audience and children
- **13+:** Suitable for 13 years and over
- **16+:** Suitable for 16 years and over
- **18+:** Adults only

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.

Accessibility

Pointer Options

 (Q. Settings) →  → **Accessibility** → **Pointer Options**

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

Menu Transparency

 (Q. Settings) →  → **Accessibility** → **Menu Transparency**

You can set interface screen transparency for some of the features displayed on your projector screen.

If you set this option to **Off**, interface screens are displayed non-transparently.

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. CC 1 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**

- **Service 1 ~ Service 6**

- This is only available for the digital broadcasting system.

- **Digital Mode Options**

- Set up the size and color of the closed captions on **Digital Mode Options**.

- Please select **Set By Program** or **Custom**.

- Select **Custom** to adjust minute options such as the closed captions' size and color.

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.
- This feature is available in certain countries only.
- The configurable items differ depending upon country.
- For visually impaired users.

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.

- This feature is available in certain countries only.
- Settings the **Audio Guidance** to **On** automatically switches the **Projector Power Sound** to **On** as well.

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.

- The effect will disappear temporarily when you configure the **Picture Mode** or **Aspect Ratio** settings.

TO UPDATE SOFTWARE

Uses software update to check and obtain the latest version.



 (Q. Settings) →  → **General** → **About This Projector**

Menu	Description
CHECK FOR UPDATES	<p>When checking for the latest update version, you can perform updates only if an update file of a later version is available.</p> <p>The projector automatically checks your software version but, if necessary, you can perform a manual check.</p>
Allow Automatic Updates	<p>If Allow Automatic Updates is selected, when an update is available, the update automatically starts without prompting a question.</p> <p>If Allow Automatic Updates is not selected, when an update is available, the update will start after prompting a question.</p>

- 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.



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.

Abnormal Operation

I cannot see some channels.

- Adjust the position or direction of the antenna.
- Save the desired channels in  (Q. Settings) →  → **Channels** → **Channel Tuning** or **Channel Manager**.

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

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



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

- Your Magic Remote may have run out of batteries.
Replace the batteries and register your Magic Remote again following the instructions shown in MAGIC REMOTE CONTROL of Owner's Manual.
- This only applies to models that support the Magic Remote.

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.
- Try to power on using the button on your projector set.

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.

It does not work when I connect a USB device.

- Check that the USB and USB cable versions are 2.0 or higher.

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.



The screen overlaps or there are stripe patterns on all channels or on a specific channel.

- Turn the antenna toward the broadcasting station or connect the antenna correctly in accordance with the How to Connect an Antenna section.

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.

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.

I cannot see digital broadcasts even though I am using a cable television.

- Check your subscription information with your cable television service provider or ask for the signal to be checked. (Some products do not provide digital broadcasts.)

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.

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.

The screen is blank or the image is blurred when an HDMI cable is used.

- Check that the HDMI® cable meets the required standards. If it is not a certified HDMI® cable, the screen may flicker or may not display anything.
- Check that the cable is properly connected. Improper connection may cause screen flicker.

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.

-  (Q. Settings) →  → **Sound** → **Sound Out**

Check whether the **Sound Out** is set to **Internal Projector Speaker**.



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.

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



- Applies only in countries where sound multiplex broadcasting is available.

 **Wheel (OK)** or  **OK** → 



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**.

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.

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**.

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 sound does not play when I connect to the HDMI/USB port.

- Check that you are using a high-speed HDMI® cable.
- Check that the USB and USB cable versions are 2.0 or higher.
- Use a normal music file (*.mp3, *.wav, *.ogg, *.wma).

PC Connection Problems

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

- Contact your video card manufacturer to check the HDMI audio output. (Video cards designed for use with DVI format files need to be connected separately with an audio cable.)

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

- Set to a resolution that supports the PC input. (Reboot your PC after changing the resolution.)

Photo & Video Movie Playback Problems

For more information about supported files, see “PLAY OTHER DEVICE FILES”.

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.

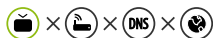
I cannot see the subtitles.

- 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  →  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.

Network Connection Problems

You can check the network connection status as shown below.

-  (Q. Settings) →  → **Network** → **Wired Connection (Ethernet)**
-  (Q. Settings) →  → **Network** → **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.

Is it possible for the family members to use different IDs on the same projector?



- You can register multiple IDs per projector.

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.

- This feature is available in certain countries only.
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**.
- 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.

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.

