



Owner's Manual

LG ProBeam

DLP Projector

Please read the safety information carefully before using this product.

HF80JG

www.lg.com

P/NO : SAC37034670 (1708-REV00)

LICENSES

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ENGLISH



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NOTE

- Image shown 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.

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

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

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

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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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 use the projector in a damp place such as a bathroom where it is likely to get wet.
 - 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.
 - 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.

 **CAUTION**

- When placing the projector on a table or shelf, be careful not to put it near the edge.
 - The projector could fall due to balance problems, which may cause personal injury or damage to the product. Make sure to use the projector cabinet or stand that fits the projector.

- 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.

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 AC adapter, 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 AC adapter, 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.

⚠ CAUTION

- Always grab the plug to remove the AC adapter or power cord.
 - Otherwise, this may result in a fire or may damage the product.
- Refrain from constantly bending the power cord of the AC adapter.
 - 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.
- 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 AC adapter, 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.
- The surface of the AC adapter is hot. Keep the AC adapter out of the reach of children and avoid touching it during use.
- Never disassemble the power supply devices (AC adapter/power cord, etc.).
 - This may damage the power cord and result in a fire or electric shock.

- Connect the AC adapter and 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 AC adapter and avoid damage.
 - This may result in a fire or may damage the product.
- Always use the AC adapter provided or any AC adapters approved and certified by LG Electronics.
 - Any other AC adapter connected may result in the screen flickering.

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.
- 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 eye sight may become worse.

 **CAUTION**

- Do not place heavy objects on the projector.
 - It may fall down and cause personal injury.

- 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.
- Do not use high voltage electrical equipment near the projector, (e.g., a bug zapper). This may result in product malfunction.

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. 4.35 W x 8

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.
- To prevent damage to lamp, unit must remain plugged in for approximately 3 minutes after power down to allow for proper cool down (not applicable on LED models).

- 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.
- Lamp contains mercury and as such must be disposed of according to local, state and federal laws (not applicable on LED models).
- 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 or in high humidity.
 - This may result in explosion or fire.
- Make sure that the battery is installed correctly.
 - This may prevent explosion or fire.
- Incorrect battery replacement may cause fire.
- Batteries: Store the accessories (battery, etc.) in a safe location out of the reach of children.

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.

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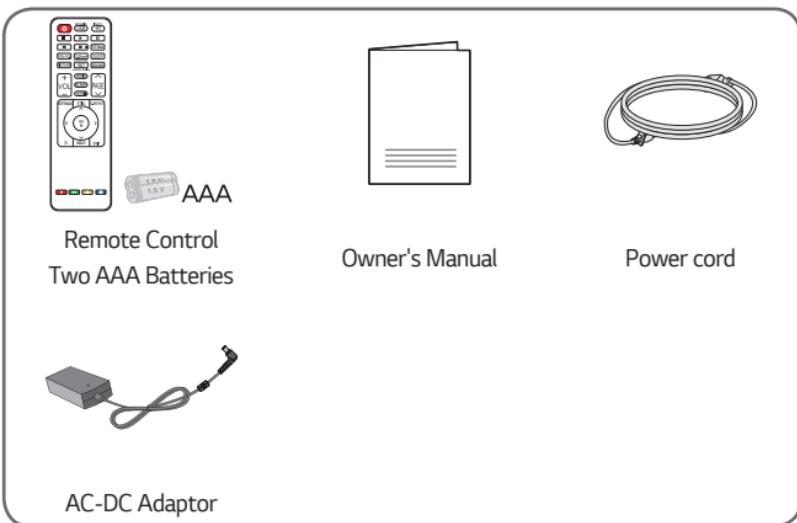
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PREPARATION

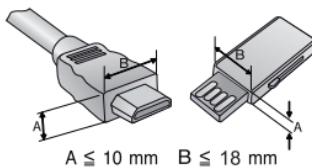
The pictures may differ slightly from the actual product.

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.



- 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 or less and a height of 10 mm or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.
- When connecting two USB devices at the same time, each one should have bezels less than 8.5 mm thick.
- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI cable types)
 - 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



Tripod



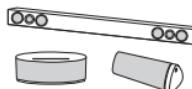
HDMI Cable



Audio Cable



Optical Cable



LG Audio Device

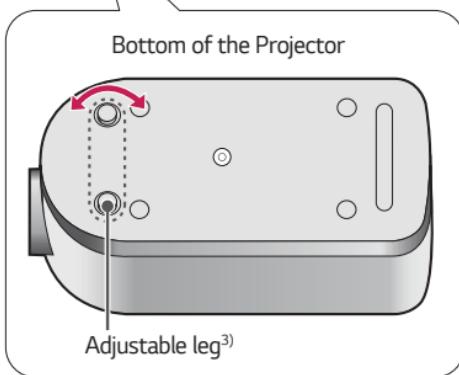
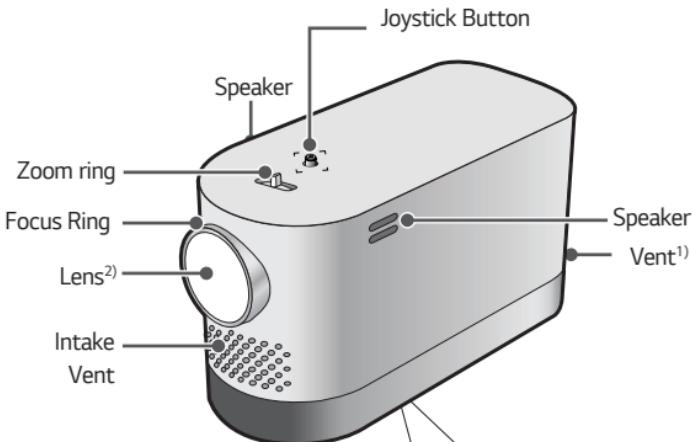


MHL Cable

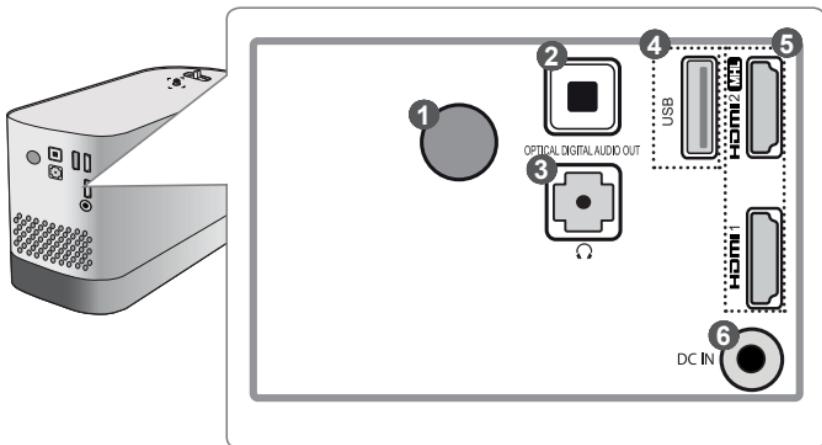
Parts and Components

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.

Main Unit



- 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.
- 3) Turn the adjustable leg left or right to adjust the angle.

Back

	Description
①	IR Receiver
②	OPTICAL DIGITAL AUDIO OUT Port
③	Ω (Headphone Port)
④	↔ (USB port)
⑤	HDMI Port
⑥	DC IN Port

Using the Joystick Button

You can operate the projector by pressing the button or moving the joystick left, right, up, or down.

Basic functions

	Power On	When the projector is turned off, place your finger on the joystick button, press it once, and release it.
	Power Off	When the projector is turned on, place your finger on the joystick button, press it once for a few seconds, and release it. (However, if the Menu button is on the screen, pressing and holding the joystick button will let you exit the Menu.)
	Volume Control	Place your finger over the joystick button and move it left or right, you can adjust the volume level.
	Up/Down/Left/Right	If you move the joystick up, down, left, or right, you can move the cursor to select the menu items.



NOTE

- Move the joystick button up, down, left, or right. Be careful not to press the joystick button. If you press the button while moving the joystick, the volume control may not work, and the cursor may not move.

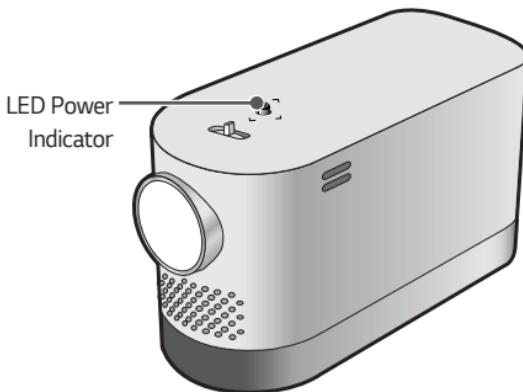
Adjusting the menu

When the projector is turned on, press the joystick button one time.

You can adjust the menu items (Power, Input, Clear, Settings) moving the joystick button left, right, up, or down. Move to the desired menu item, and then press the joystick button once to select it.

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

Projector Status Indicators



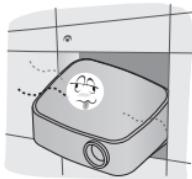
LED Power Indicator

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

Installation

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.



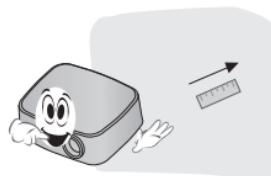
- Do not place the projector on a carpet or rug. If the projector's inlet vent is on the bottom, be careful not to block the vent and always use the projector on a solid, level surface.



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



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

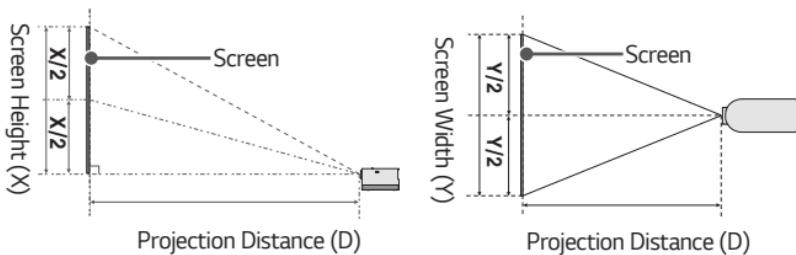


- Do not place the projector in a hot, cool, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
 - This may result in fire.
- Never open any cover on the projector. There is a high risk of electric shock.
- The projector is manufactured using high-precision 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.

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 Edge Adj function.
- 4** Connect the power cord of the projector and the connected device to the wall outlet.

Ratio of upward projection: 100 %

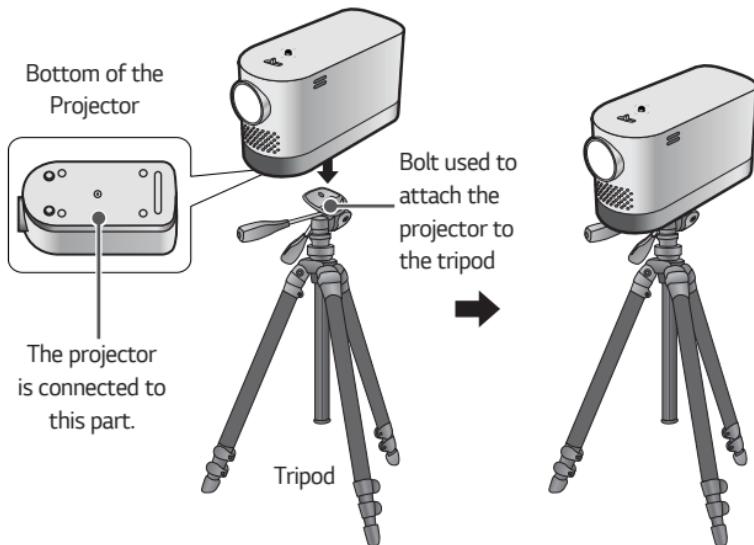


16:9 Aspect Ratio (Wide)			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (D) (mm)
762	664	374	905
889	775	436	1061
1016	886	498	1230
1143	996	560	1371
1270	1107	623	1526
1397	1218	685	1682
1524	1328	747	1837
1651	1439	809	1992
1778	1550	872	2147
1905	1660	934	2302
2032	1771	996	2458
2159	1882	1058	2613
2286	1992	1121	2768
2413	2103	1183	2923
2540	2214	1245	3078
2667	2324	1308	3234
2794	2435	1370	3388
2921	2546	1432	3544
3048	2657	1494	3698

16:9 Aspect Ratio (Tele)			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (D) (mm)
693	604	340	905
808	704	396	1061
924	805	453	1230
1039	906	509	1371
1155	1006	566	1526
1270	1107	623	1682
1385	1208	679	1837
1501	1308	736	1992
1616	1409	792	2147
1732	1509	849	2302
1847	1610	906	2458
1963	1711	962	2613
2078	1811	1019	2768
2194	1912	1075	2923
2309	2013	1132	3078
2425	2113	1189	3234
2540	2214	1245	3388
2655	2314	1302	3544
2771	2415	1358	3698

How to Install the Projector On a Tripod

- You can install the projector using a camera tripod.
- As shown below, you can mount the projector instead of a camera on the tripod.
- When stabilizing the tripod, we recommend using a locking bolt of standard size 4.5 mm or less. The maximum size allowed for the locking bolt is 5.5 mm. (If it is longer than the maximum allowed size, it may damage the projector.)



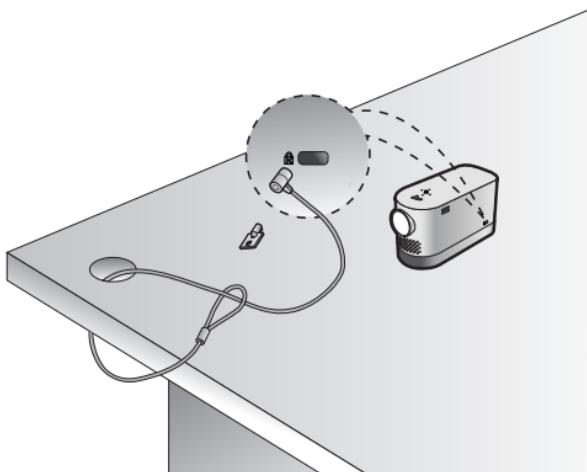
CAUTION

- If you are using a tripod, be careful not to apply external force to the tripod. Doing so may damage the projector.
- Do not place the tripod on an unstable surface.
- Be sure to use a tripod with a maximum load capacity of 3 kg or more.
- To use the projector safely, position the tripod legs so that they are as wide and stable as possible and be sure to securely attach the projector to the tripod.

Kensington Security System

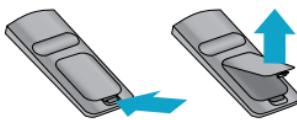
- This projector has a Kensington Security Standard connector as an anti-theft mechanism. Connect a Kensington Security System cable as shown below.
- For more information on installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.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



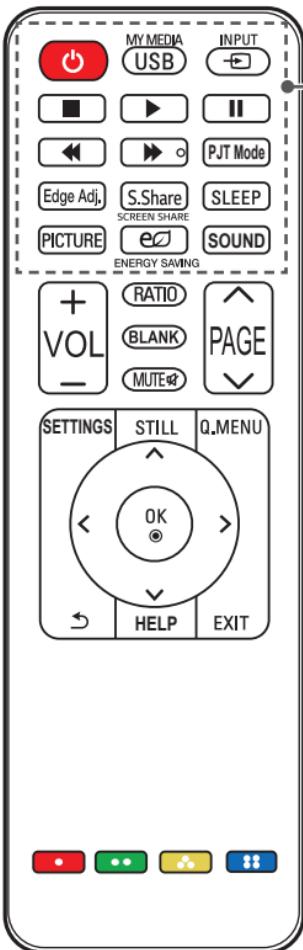
REMOTE CONTROL

Open the battery cover on the back of the remote control and insert the batteries which are specified in the battery room with $\oplus\ominus$ poles pointing in the correct direction. The new and same type of batteries (1.5 V AAA) must be used.



CAUTION

- Do not mix new batteries with old ones.



(POWER)

Turns the projector on or off.

USB/MY MEDIA

Accesses USB mode.

INPUT

Changes the input source.

Playback Control Buttons

Controls playback of **MY MEDIA**.

PJT Mode

Turns the projected image upside down or flips it horizontally.

Edge Adj.

Adjusts the Edge Adj settings.

S.Share / SCREEN SHARE

Changes the input source to SCREEN SHARE.

SLEEP

Sets the sleep timer.

PICTURE

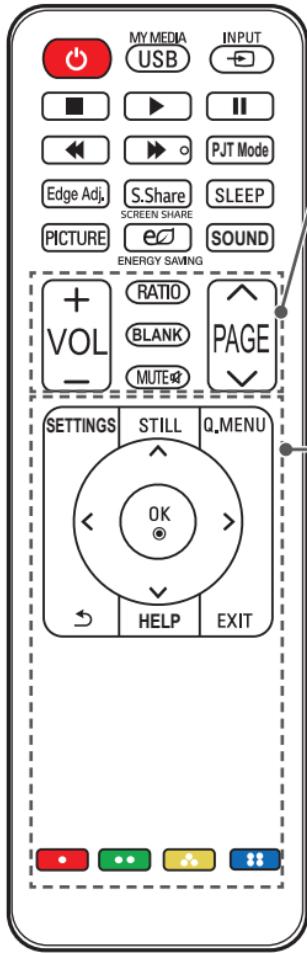
Changes the picture mode.

ENERGY SAVING

Reduces power consumption by adjusting peak screen brightness.

SOUND

Changes the Sound Mode.

**VOL +, -**

Adjusts the volume level.

PAGE ^, v

Moves to the previous/next page.

RATIO

Resizes an image.

BLANK

Displays a blank screen.

MUTE

Mutes the sound of the projector.

SETTINGS

Displays or closes the Settings menu.

STILL

Freezes the moving image.

(Available in any mode other than USB mode.)

Q.MENU

Enters the quick menu.

Up/Down/Left/Right buttons

Sets the function or moves the cursor.

OK

Shows the current mode and saves changes to the settings.

BACK

Returns to the previous screen.

HELP

Enables the self-diagnosis.

EXIT

Exits the menu.

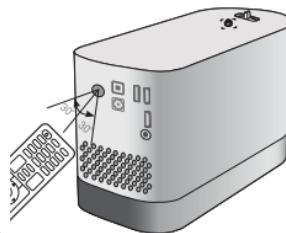
Color buttons

Sets detailed settings or gesture for each menu.



NOTE

- When using the remote control, the optimal operation range is 6 meters or less (left/right) and within a 30 degree arc of the remote control IR receiver.
- If a cable is connected to the back port, the optimal operating range is 3 meters or less (left/right) and within a 30 degree arc of the remote control IR receiver.
- For seamless operation, do not block the IR receiver.
- When you carry the remote control in the portable bag, make sure that the buttons on the remote control are not pressed by the projector, cables, documents, or any other accessories in the bag. Otherwise, it may significantly reduce the battery life.

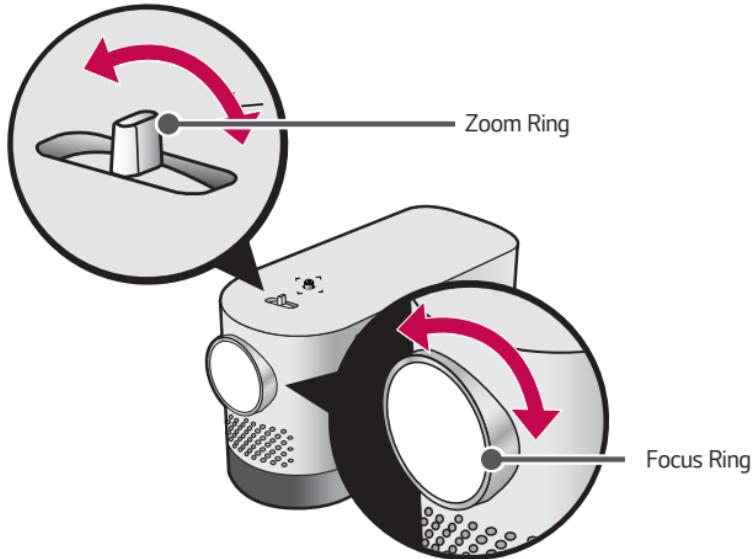


USING THE PROJECTOR

USING THE PROJECTOR

Focus of the screen image

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



- To adjust the focus of the image, rotate the focus ring.
- 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 Press the INPUT  button and select the input signal you want.
- 3 Control the projector using the following buttons while watching projector.

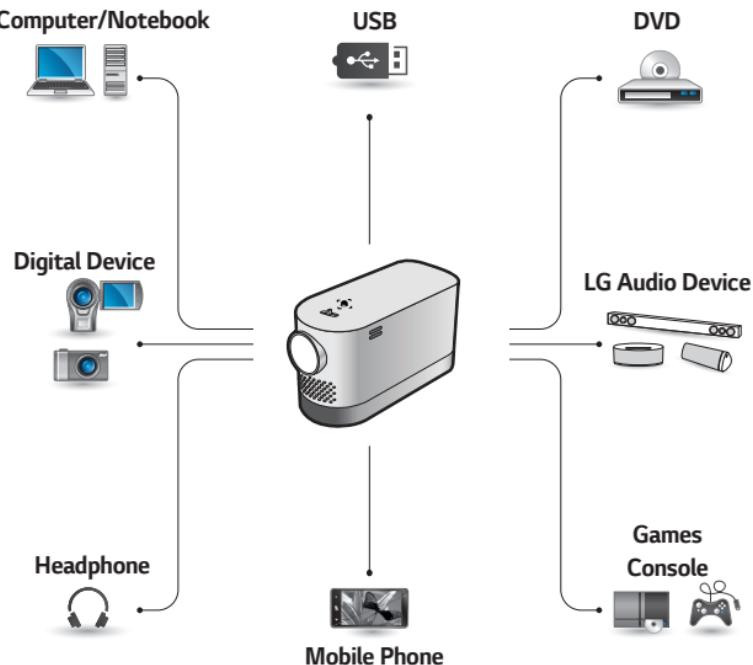
Button	Description
VOL +, -	Adjusts the volume level.
MUTE 	Mutes the sound of the projector.
Q.MENU	Enters the quick menu.
RATIO	Resizes an image.
Edge Adj.	Adjusts the Edge Adj settings.

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

CONNECTING DEVICES

You can connect various external devices to the projector.

ENGLISH



HDMI - Page 31

Headphone - Page 33

Digital Amp - Page 33

Connecting to HD Receiver, DVD, or External Devices

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

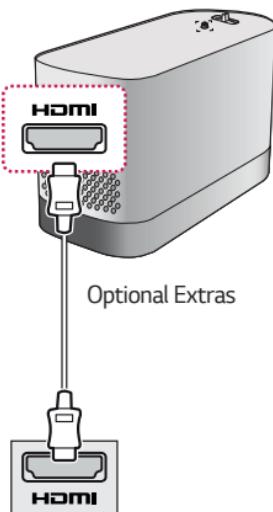
- INPUT → HDMI1/HDMI2

You can connect with any HDMI input port.

HDMI Connection

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.



Connecting a PC

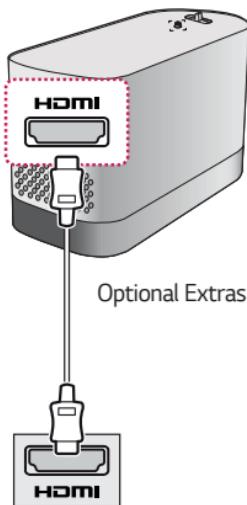
The projector supports Plug and Play. Your PC will automatically detect the projector and requires no driver installation.

- INPUT → HDMI1/HDMI2

You can connect with any HDMI input port.

HDMI Connection

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

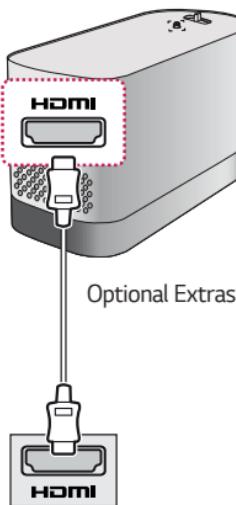
You can connect the projector to a laptop to use various functions.

- INPUT →  → **HDMI1/HDMI2**

You can connect with any HDMI input port.

HDMI Connection

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.

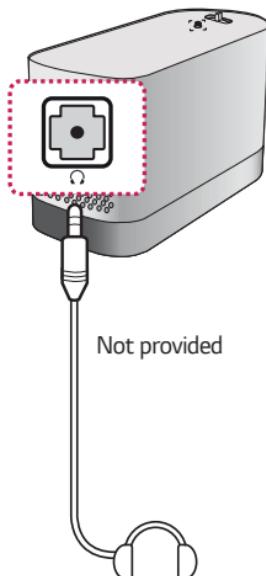


The table below shows examples of switching the output. For more information, refer to the **External Output, Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

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

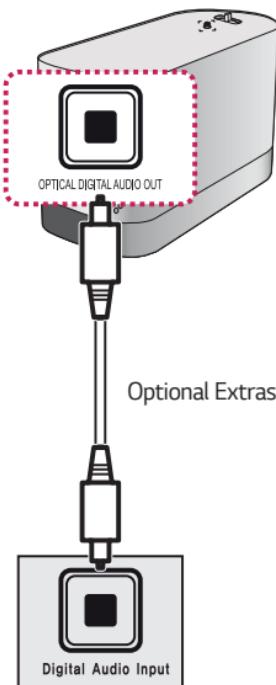
You can listen to the audio through a headphone.



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 External Speaker (Optical)**.

If a projector, home theater, or the speaker of an external audio device is operating at the same time, there will be an echo.





NOTE

- Refer to the user manual of the audio device you wish to connect.
- When connecting this product to another device, 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.)

Using the Mirroring Function of a Mobile Phone

MHL Connection

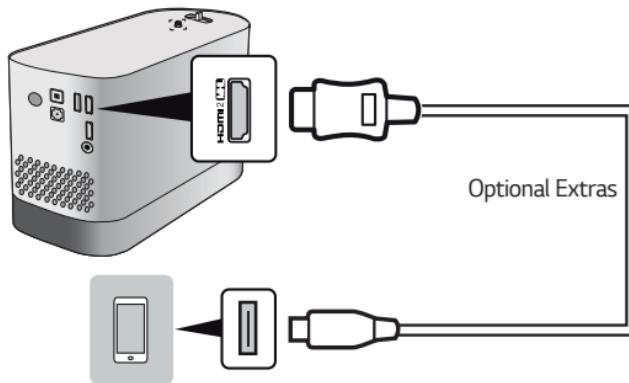
The Mobile High-definition Link (MHL) is an interface that can connect a mobile phone to the projector and play video and audio from the mobile phone through the projector.

This only applies to products with a HDMI input that supports MHL.

(To find out whether your device is MHL-certified, please contact your device manufacturer.)

For MHL support, check the **HDMI2 MHL** port.

Use a dedicated cable for MHL.



NOTE

- When you connect a mobile phone to the **HDMI2 MHL** port, you can see the mobile phone screen through a projector.
 - This only applies to mobile phones that support MHL.
 - You can use the remote control for some applications.
- Disconnect the MHL cable from the projector when:
 - The MHL function is disabled.

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.

Use an air spray or a cleaning cloth to clean the lens.

To remove dust or stains, use an air spray or apply a small amount of cleaning agent onto a swab or soft cloth to lightly rub the lens.

Please be aware that liquid may flow into the lens if the product is sprayed directly onto the lens.

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

ENGLISH

MODEL	HF80JG (HF80JG-GL)
Resolution (Pixel)	1920 (Horizontal) × 1080 (Vertical)
Aspect ratio	16:9 (Horizontal:Vertical)
Panel size	11.938 mm
Projection distance (Screen size)	905 mm to 3698 mm (762 mm to 3048 mm)
Ratio of upward projection	100 %
Working range of the remote control	6 m
Power consumption	140 W
AC-DC Adaptor	Manufacturer : Lien Chang
	Model : LCAP31
	19 V $\frac{---}{---}$ 7.37 A (Adaptor Input 100-240 V @ 50/60 Hz)
Audio Output	3 W + 3 W
Height	140 mm (without foot), 144 mm (with foot)
Width	108 mm
Depth	252.3 mm
Weight	2.1 kg
USB Device	5 V, 0.5 A (Max.)
Environment Condition	Temperature
	Operation 0 °C to 40 °C
	Storage -20 °C to 60 °C
	Relative Humidity
	Operation 0 % to 80 %
	Storage 0 % to 85 %

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

HDMI (DTV) Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480p	31.47	60
	31.47	59.94
	31.50	60
576p	31.25	50
720p	45.00	60.00
	44.96	59.94
	37.5	50
1080i	33.75	60.00
	33.72	59.94
	28.125	50
1080p	67.500	60
	67.432	59.939
	27.000	24.000
	26.97	23.976
	33.75	30.000
	33.71	29.97
	56.25	50

Supported HDMI (PC) Modes

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
1280 x 1024	63.981	60.02
1920 x 1080	67.5	60

- 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).
- 1920 x 1080 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 three (3) years from the date on which you purchased the product.

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.





USING THE 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.

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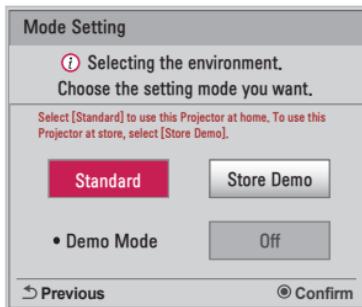
USING THE PROJECTOR

Watching Projector

Turning on the Projector

The menu screen display in this owner's manual is an example to help users understand how to operate the product and may look different from the actual screen.

- 1 Connect the power cord correctly.
- 2 After waiting for a moment, press the  button on the remote control or the joystick button.
- 3 In the Language Selection screen, select a language.
- 4 In the **Mode Setting** screen, select the setting mode you want.



* **Store Demo** is used when displaying the product in-store. The picture mode is automatically reset after a certain period of time. You can select **Standard** to use the product at home.

- 5 Select an input signal by using the **INPUT**  button on the remote control.

Additional Options

Adjusting Aspect Ratio

Resize an image to view at its optimal size by pressing **RATIO** while you are using the projector.



NOTE

- Available picture size may differ depending on the input signal.
- You can also use the **Q.MENU** or **SETTINGS** button.

- **16:9**

Displays an aspect ratio of 16:9.

- **Just Scan**

Displays video images in the original size without removing parts of the edge of the image.

- If you select **Just Scan**, you may see image noise at the edge or edges of the screen.

- **Set By Program**

Displays images in the same aspect ratio as the original image.

- **4:3**

Resizes images to the previous standard 4:3.

- **Zoom**

Resizes the image to fit the screen width. The top and bottom parts of the image may be cut off.

- Press the **<** or **>** button to zoom in or out of the image.
- Press the **^** or **v** button to move the image.

- **Cinema Zoom 1**

Formats an image to the cinemascope ratio, 2.35:1.

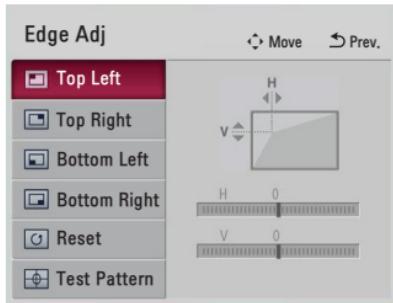
It ranges from 1 to 16.

- Press the **<** or **>** button to zoom in or out of the image.
- Press the **^** or **v** button to move the image.
- If you enlarge or reduce an image, the image may be distorted.

Using the Edge Adj (4 Corner Keystone) Function

Edge Adj (4 Corner Keystone) adjusts the horizontal and vertical sides of the projected image if the projector is at an angle and not perpendicular to the screen. This feature ensures the shape of the projected image is not distorted.

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



1 Go to **SETTINGS** → **OPTION 2** → **Edge Adj**.

2 The value range of **Edge Adj** is as follows.

- Top Left (H: 0 to 100, V: 0 to 100)
- Top Right (H: -100 to 0, V: 0 to 100)
- Bottom Left (H: 0 to 100, V: -100 to 0)
- Bottom Right (H: -100 to 0, V: -100 to 0)



NOTE

- When using **Auto Keystone(Vertical)**, the current value set for **Edge Adj** is changed to the value that has been set with **Auto Keystone(Vertical)**.
- When the input is set to **SCREEN SHARE**, **Edge Adj** feature is disabled and cannot be used.

Changing Input Device

To select an external input

Selects external input.

The illustration of the menu may differ from the actual screen on the product.

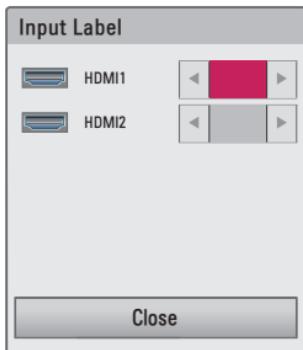
- Press the INPUT  button on the remote control to display the input selection screen.
 - Connected inputs are displayed first. However, **SCREEN SHARE** is always activated.
- Select an input signal using the remote control's INPUT  button to connect the projector to the desired input.

You can use the <, >, \wedge or \vee button to switch between all the input modes.



Selecting an Input Label

Displays which devices are connected to which input ports.



- 1 Press the **INPUT**  button on the remote control to display the input selection screen.
- 2 Press the **Red** button.
- 3 Use the **Λ** or **∨** button to scroll to one of the input sources.
- 4 Use the **<** or **>** button to select one of the input labels.

Blank Function

Using the Blank Function

This function may be effective when you need to draw attention during a meeting or training.

- 1 Press the **BLANK** button, and the screen is covered by the background color. You can change the background color by referring to *Selecting a Blank Image*.
- 2 Press any button to clear the blank function. To cover the screen temporarily, press the **BLANK** button on the remote control. Do not block the lens with any object while the projector is running. It may become overheated and deformed or even cause a fire.

Selecting a Blank Image

- 1 Press the **SETTINGS** button.
- 2 Press the **Λ**, **∨**, **<**, or **>** buttons to select **OPTION 2** and press the **OK**  button.
- 3 Press the **Λ**, **∨** buttons to select **Blank Image** and press the **OK**  button.
- 4 Press the **Λ** or **∨** button to move to the setting or option you want and press the **OK**  button.

Using the Quick Menu

You can easily customize your frequently used menus.

- 1 Press the **Q.MENU** button.
- 2 Press the **<** or **>** button to select a menu and press **OK**  button.
 - **Aspect Ratio**
Resizes the picture.
 - **PJT Mode**
Turns the projected image upside down or flips it horizontally.
 - **Picture Mode**
Changes the picture mode.
 - **Sound Mode**
Sets the sound mode.
 - **Sleep Timer**
Sets the projector to be turned off at the specified time.
 - **Clear Voice II**
Makes the voice from the projector crisp and clear.
 - **Energy Saving**
Reduces power consumption by adjusting peak screen brightness.
 - **USB Device**
Allows you to remove a connected USB device in a safe manner.
(The menu is displayed only when the USB device is connected.)
- 3 Press the **Λ** or **∨** button to scroll through the following menus.

ENTERTAINMENT

Using SCREEN SHARE

- 1 Set the external input of the projector to **SCREEN SHARE**.
- 2 Enable related SCREEN SHARE function on the device you wish to connect.
- 3 Connect the projector from the search list on the device you wish to connect.
(When you connect the projector to your laptop, input the PIN code shown on your display. The request for a PIN will be shown only at the initial connection.)
- 4 If the desired device accepts the request, SCREEN SHARE will be started.



CAUTION

- Windows 7 / 8 / 8.1 / 10 are compatible with SCREEN SHARE. However, other versions of Windows, and some other operating systems, may not be compatible with SCREEN SHARE.
- Ice Cream Sandwich, Jellybean, Kitkat, Lollipop, Marshmallow and Nougat versions of LG's Android devices are guaranteed to be compatible.
- When connecting via SCREEN SHARE, place the device close to the projector.
- The response rate and image quality may vary depending upon the user's environment.
- For more information on the device you want to connect to, refer to its owner's manual.
- Certain Windows 8.1 laptops may have difficulty in reconnecting when initializing the device information during a wireless connection. In this case, it is recommended that you remove the registered device and reconnect.
- When the input is set to **SCREEN SHARE**, these features are disabled and cannot be used: **Edge Adj**, **PJT Mode**, and **Auto Keystone(Vertical)**.

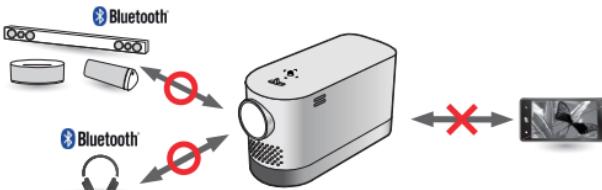
Setting Up Bluetooth on the Projector

This option is used to output sound from the projector through Bluetooth audio devices.



NOTE

- The devices that can be connected are as follows: LG BTS1, LG HBS-700, LG HBS-730, LG HBS-800 (Models available for purchase may vary by region.)
- Products from other manufacturers may not be compatible.
- You can use the remote control to adjust the volume of the connected device.
- When connecting devices wirelessly, if the device connection fails, check that the device is connected to a power supply and also check that the Bluetooth audio device is operating properly.
- If Bluetooth is turned on, the projector will automatically connect to the last connected Bluetooth device when the projector powers on. (Be sure to check that the last connected Bluetooth device is powered on as well.)
- This projector does not support the LG TV Sound Sync feature. To use products that support the LG TV Sound Sync feature, use the general Bluetooth mode instead of the LG TV mode.
- The Bluetooth function is to connect the product to Bluetooth speakers or Bluetooth headset. You cannot connect the product to a mobile phone through the Bluetooth function.



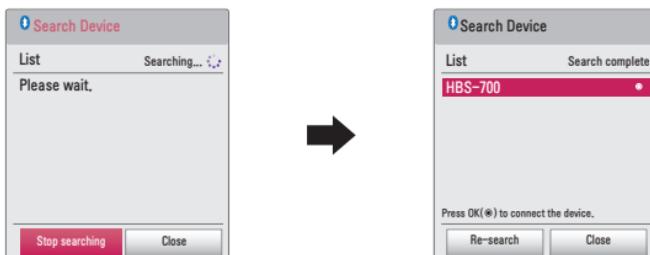
Searching for Bluetooth Devices and Connecting

Go to **SETTINGS** → **AUDIO** → **Sound Out** → **Bluetooth** → **Search Device** to search for nearby Bluetooth audio devices and then connect any detected devices to the projector. (If the device name is longer than 20 characters, only the first 20 will be displayed.)

- 1** Set the Bluetooth device to pairing mode and then select **Search Device**.
- Select **Stop searching** to view the devices detected so far.
- If the device has not been detected, check that the device is powered on and in pairing mode.
- The time it takes to search for devices may vary according to the signal strength and the number of devices.



- 2** When the search is complete, you can select a Bluetooth device and connect to it.
- You can stop the connection process immediately by selecting **Stop searching**.
- The time it takes to connect to a device may vary according to the signal strength and the number of devices.



- 3 When a Bluetooth device is connected, you will hear sound from the projector through the connected device.
- The connected Bluetooth device will be added automatically to the **List of registered devices**. Once registered, Bluetooth devices can be connected simply by selecting them from the **List of registered devices** without having to search for them.
 - Connected devices can only be disconnected from **SETTINGS** → **AUDIO** → **Sound Out** → **Bluetooth** → **List of registered devices**.

Connecting, Disconnecting, or Deleting Bluetooth Devices in the List of Registered Devices

In **SETTINGS** → **AUDIO** → **Sound Out** → **Bluetooth** → **List of registered devices**, Bluetooth devices are shown in the order that they were connected, and the same devices can be reconnected simply by selecting them without having to search for them again.



Connecting

Select a Bluetooth device from the **List of registered devices** to connect to it.

- The registered Bluetooth device will attempt to connect automatically depending on the characteristics of the device. (Refer to the manual for the Bluetooth device.)
- You can stop the connection process immediately by selecting **Stop**.
- The time it takes to connect to a device may vary according to the signal strength and the number of devices.

Disconnecting

Select **Disconnect** to disconnect the device.

- You can only disconnect a device from the **List of registered devices**.

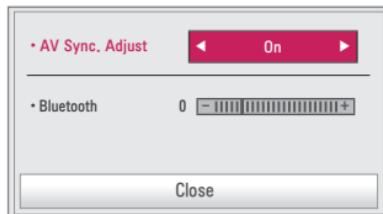
Deleting

Select **Delete Marked** or **Delete All** to delete any registered devices.

- **Delete Marked:** Press the red button in **List of registered devices** to delete the selected device.
- **Delete All:** Select **Delete All** in **List of registered devices** to delete all of the registered devices.

Adjusting AV Sync. Adjust

When a Bluetooth device is connected, go to **SETTINGS** → **AUDIO** → **AV Sync. Adjust** to adjust the synchronization between the video and the Bluetooth headset sound.



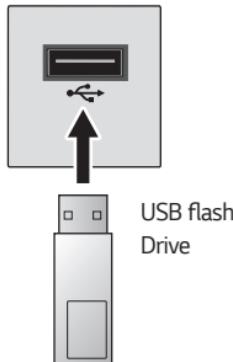
- This feature is only available when a Bluetooth device is connected.
- Audio sync may vary by manufacturer.
- When playing video from a connected USB drive, **AV Sync. Adjust** can also be adjusted using the **Set Audio** menu.

MY MEDIA

Before Using

Connecting a USB Device

Connect a USB device (external HDD, USB memory) to the USB port of projector to enjoy the content files stored in the USB device with your projector. You cannot write or delete data in the USB device. Connect a USB flash drive as shown below.



Removing a USB Device

- 1 Click the **Q.MENU** button.
- 2 Use the < or > button to move to **USB Device** and press the **OK** button.
- 3 Select a USB to remove. Wait for confirmation that the USB device has stopped before removing the USB.



NOTE

- If detached early, an error may occur on the projector or the USB storage device.
- Once a USB device has been selected for removal, it can no longer be read. Remove the USB storage device and then re-connect it.

Tips for using a USB device

- If the USB storage device has a built-in auto recognition program or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- If you use a USB extension cable, the USB device may not be recognized or may not work properly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS file system.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.
- It is recommended to use a USB hub or hard disk drive with power supplied. (If the power supplied is not enough, the USB storage device may not be detected properly.)
- It is recommended that you use USB flash drives of 32 GB or less and USB HDDs of 2 TB or less.
- If a USB HDD with power-saving function does not work properly, turn the power off and on. For more information, refer to the user manual of the USB HDD.
- Data in USB storage device can be damaged so be sure to back up important files to other devices. Data maintenance is the user's responsibility and the manufacturer is not responsible for data loss.

To Use My Media

1 Press the **SETTINGS** button on the remote control.

2 Select **MY MEDIA**.

Select desired file from the list. Watch the chosen file.

Sets play related settings by checking option during disk playback.

My Media supporting file

- Maximum data transmission rate: 20 Mbps (Mega bit per second)
- External supported subtitle formats: *.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX)
- Internal supported subtitle formats: SRT/ASS/SSA (Supports internal subtitles generated from DivX6)

Video Supported Codec

Maximum: 1920 x 1080 @ 30p (only Motion JPEG 640 x 480 @ 30p)

Extension	Codec	
.ASF .WMV	Video	VC-1 Advanced Profile, VC-1 Simple and Main Profiles
	Audio	WMA Standard, WMA 9 Professional
.DIVX .AVI	Video	DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital
.MP4 .M4V .MOV	Video	H.264 / AVC, MPEG-4 Part 2
	Audio	AAC
.MKV	Video	H.264 / AVC
	Audio	HE-AAC, Dolby Digital
.TS	Video	H.264 / AVC, MPEG-2, VC-1
.TRP .TP .MTS .M2TS	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC

Extension	Codec	
.vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM
.mpg .mpeg	Video	MPEG-1
	Audio	MPEG-1 Layer I, II

Audio File

File type	Item	Info
mp3	Bit rate	32 Kbps to 320 Kbps
	Sampling rate	32 kHz to 48 kHz
AC3	Bit rate	32 kbps to 640 kbps
	Sampling rate	32 kHz, 44.1 kHz, 48 kHz
MPEG	Bit rate	32 kbps to 448 kbps
	Sampling rate	32 kHz to 48 kHz
AAC, HEAAC	Bit rate	24 kbps to 3844 kbps
	Sampling rate	8 kHz to 96 kHz
CDDA	Bit rate	1.44 kbps
	Sampling rate	44.1 kHz
LPCM	Bit rate	1.41 Mbps to 9.6 Mbps
	Sampling rate	Multi-channel : 44.1 kHz, 88.2 kHz / 48 kHz, 96 kHz Stereo : 176.4 kHz, 192 kHz

Available photo file

File type	Item	Info
jpeg, jpg, jpe	Support File type	SOF0: Baseline, SOF1: Extend Sequential, SOF2: Progressive
	Picture Size	Minimum: 64 x 64 Maximum: Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H)
BMP	Picture Size	Minimum: 64 x 64 Maximum: 9600 (W) x 6400 (H)
PNG	Support File type	Interlace, Non-Interlace
	Picture Size	Minimum: 64 x 64 Maximum: Interlace: 1200 (W) x 800 (H) Non-Interlace: 9600 (W) x 6400 (H)

* BMP and PNG format files may be slower to display than JPEG.

Watching the Videos

In the **Movie List**, you can watch movies stored on the connected USB device. Controls playback and sets options while viewing videos.

Tips for Playing Video Files

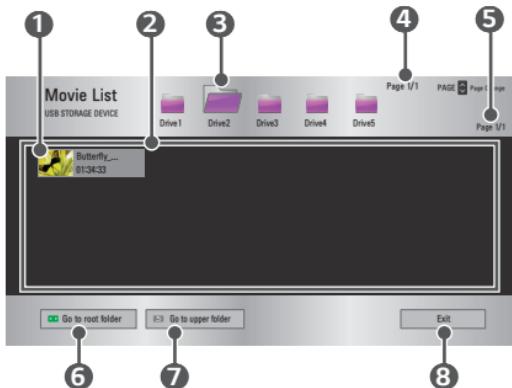
- Some subtitles created by users may not work properly.
- The video and subtitle files should be placed in the same folder. For subtitles to display correctly, the video and subtitle files must have the same name.
- We do not support any stream that contains GMC (Global Motion Compensation) or Qpel (Quarterpel Motion Estimation).
- Only H.264 / AVC profile level 4.1 and lower is supported.
- Video files that exceed 50 GB (gigabyte) are not supported for playback. The file size limit is dependent on the encoding environment.
- DTS audio codec is not supported.

Browsing Movie List

Play a video file stored from a connected device.

- 1 Connect a USB storage device.
- 2 Press the **USB/MY MEDIA** button.
- 3 Use the <, or > button to select **Movie List** and press the **OK**  button.

- 4 Use the \wedge , \vee , $<$, or $>$ button to select the file you want and press the OK  button.



No.	Description	
1	Thumbnails	
	Abnormal file	
	File not supported	
2	File List	
3	Moves to the upper level folder.	
4	Current page/Total no. of folder pages	
5	Current page/Total no. of file pages	
6	Moves to the top level folder.	
7	Moves to the upper level folder.	
8	Exit Movie List.	

- 5 Control playback by using the following buttons.



Item	Description
◀▶	Shows the current playing position. Use < or > buttons to move forward or backward.
■	Stops playing and returns to Movie List.
▶	Returns to normal playback.
⏸	Pauses the media player. If no button is pressed on the remote control for 10 minutes after pausing, the playback is restarted.
⏸▶▶	Displays in slow motion.
◀▶▶▶	Whenever this button is pressed, the playback speed is changed.: x2, x4, x8, x16, x32
energy	Reduces power consumption by adjusting peak screen brightness.
Option	A pop-up window will appear.
Hide	Hides the playback bar. Press the OK button to make it appear.
Exit	Returns to the Movie List screen.

Options for Movie List

- 1 Press the **Q.MENU** button.
- 2 Use the **Λ** or **∨** button to move to a desired option and press the **OK**  button.
- 3 Use the **Λ**, **∨**, **<**, or **>** button to set up each item.

Set Video Play.

- **Picture Size**

Selects the size of a playback screen.

- **Full**: Files are played in full screen mode according to the aspect ratio of video.
- **Original**: Displays the video in the original size.

- **Audio Language**

Allows you to select the language you want for the file with multiple audio tracks. This option is not available if the file has only one audio track.

- **Subtitle Language**

The subtitle can be turned on or off.

- **Language**: One of any of the available languages can be selected.
- **Code Page**: A character set used for a subtitle can be selected.
- **Sync**: If a subtitle is not synchronized with its video, you can adjust its speed at 0.5 seconds unit.
- **Position**: Moves the location of a subtitle.
- **Size**: Changes the subtitle font size.

- **Repeat**

Turns the repeat function **On** or **Off**.

When it is set to off, the next file can be played sequentially if the file name is similar.

Set Video.

You can change video settings. (*Refer to PICTURE Settings on page 36.*)

Set Audio.

You can change audio settings. (*Refer to AUDIO Settings on page 42.*)

BLUETOOTH

You can change Bluetooth settings. (*Refer to Setting Up Bluetooth on the Projector on page 10.*)

Registering the DivX code

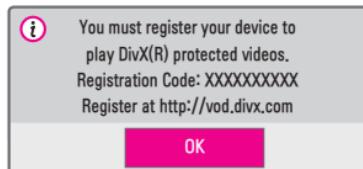
Checks DivX Reg. Code for replaying DivX protected videos. Register at <http://vod.divx.com>.

Use Reg. Code to rent or purchase movies at www.divx.com/vod.

- In the Settings menu, move to **OPTION 1** and press **DivX(R) VOD**.



- Press the **▲** or **▼** button to move to **Registration** and press the **OK** button.



- Check the DivX **Registration Code**.



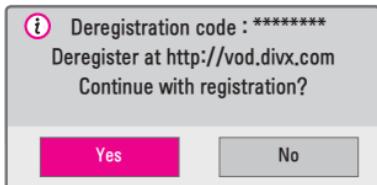
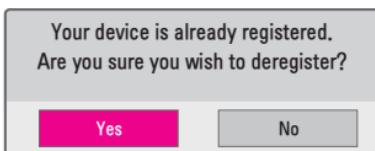
NOTE

- Rented/purchased DivX files cannot be played if the DivX Registration Code of a different device is used. Use only the DivX Registration Code granted to this specific device.
- Converted files not conforming to the DivX Codec Standard may not play or may produce abnormal sound.

To deregister the DivX code

Use the DivX deregistration code to deactivate the DivX DRM function.

- 1 In the Settings menu, move to **OPTION 1** and press **DivX(R) VOD**.
- 2 Use the **Λ** or **∨** button to go to **Deregistration** and press the **OK** 
- 3 Select **Yes**.

**NOTE**

- What is DRM [Digital Rights Management]?
- DRM technologies and services protect the interests and rights of copyright holders by preventing illegal use of digital content. Files can be played after the license is verified through an online method, etc.

Viewing the Photos

You can view photos stored on a connected device.

Supported Photo Files

PHOTO (*.JPEG)

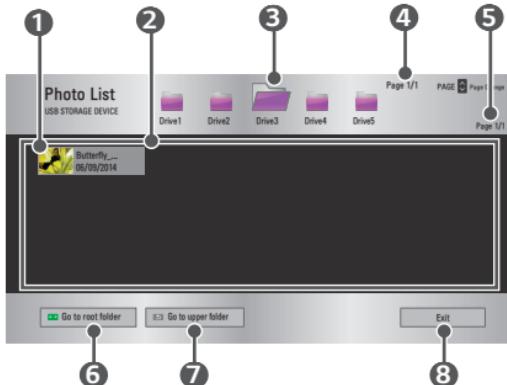
Baseline: 64-pixel (width) x 64-pixel (height) - 15360-pixel (width) x 8640-pixel (height)

Progressive: 64-pixel (width) x 64-pixel (height) - 1920-pixel (width) x 1440-pixel (height)

- Only JPEG files are supported.
- Non-supported files are displayed in the form of an icon.
- An error message is displayed for corrupted files or file formats that cannot be played.
- Corrupted files may not be displayed properly.
- It may take some time to view high-resolution images in full screen.

Browsing Photo List

- 1 Connect a USB storage device.
- 2 Press the **USB/MY MEDIA** button.
- 3 Use the < or > buttons to select **Photo List** and press the **OK** (●) button.
- 4 Use the ▲, ▼, <, or > button to select the file you want and press the **OK** (●) button.



No.	Description	
Thumbnails		
①	Abnormal file	
	File not supported	
②	File List	
③	Moves to the upper level folder.	
④	Current page/Total no. of folder pages	
⑤	Current page/Total no. of file pages	
⑥	Moves to the top level folder.	
⑦	Moves to the upper level folder.	
⑧	Exits Photo List.	

5 Control playback by using the following buttons.



Item	Description
◀ ▶	Selects the previous or next photo.
Slideshow	All photos are displayed during slide show. • Set Slide Speed in the Option → Set Photo View. menu.
BGM	You can listen to music while viewing photos in full size. • Set the BGM in Option → Set Photo View. menu.

Item	Description
	Rotates photos. <ul style="list-style-type: none"> • Rotates a photo 90°, 180°, 270°, 360° clockwise. • Photos cannot be rotated if their width is greater than the height of the max. supported resolution.
	Views the photo in full mode or original mode. Press the blue button to enlarge the image.
	Reduces power consumption by adjusting peak screen brightness.
Option	A pop-up window will appear.
Hide	Hides the menu on the full size screen. <ul style="list-style-type: none"> • To see the menu, press the OK button on the remote control.
Exit	Exit from full screen photo view.

Options for Photo List

- 1 Press the **Q.MENU** button.
- 2 Use the **Λ** or **∨** button to move to a desired option and press the **OK** button.
- 3 Use the **Λ**, **∨**, **<**, or **>** button to set up each item.

Set Photo View.

- **Slide speed**

Selects a slideshow speed.

- **BGM**

Selects a music folder for the background music.

- You cannot change the music folder while the background music is playing.
- For background music, only the folder from the same device can be selected.
 - **Repeat**: Selects repeat play.
 - **Random**: Selects random play.

Set Video.

You can change video settings. (Refer to *PICTURE Settings* on page 36.)

Set Audio.

You can change audio settings. (Refer to *AUDIO Settings* on page 42.)

BLUETOOTH

You can change Bluetooth settings. (Refer to *Setting Up Bluetooth on the Projector* on page 10.)

Listening to Music

You can play audio files stored on the connected device.

Supported Music Files

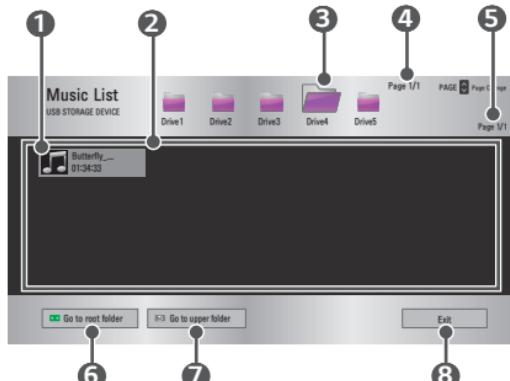
*.MP3

Bit rate range 32 Kbps to 320 Kbps

- Sampling rate MPEG1 Layer3: 32 kHz, 44.1 kHz, 48 kHz
- Sampling rate MPEG2 Layer3: 16 kHz, 22.05 kHz, 24 kHz

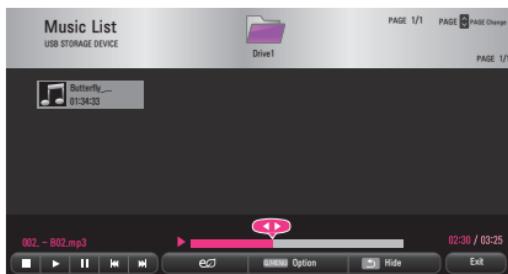
Browsing Music List

- 1 Connect a USB storage device.
- 2 Press the **USB/MY MEDIA** button.
- 3 Use the < or > button to select **Music List** and press the **OK** (●) button.
- 4 Use the ▲, ▼, <, or > button to select the file you want and press the **OK** (●) button.



No.	Description		
①	Thumbnails		
	Abnormal file		
	File not supported		
②	File List		
③	Moves to the upper level folder.		
④	Current page/Total no. of folder pages		
⑤	Current page/Total no. of file pages		
⑥	Moves to the top level folder.		
⑦	Moves to the upper level folder.		
⑧	Exits Music List.		

5 Control playback by using the following buttons.



Item	Description
◀▶	Changes the playing position.
■	Stops playing.
▶	Returns to normal playback.
	Pauses the media player.

Item	Description
	Plays the previous/next file.
	Reduces power consumption by adjusting peak screen brightness.
Option	Sets up the options of Music List.
Hide	Hides the playback bar. <ul style="list-style-type: none">• Press the OK  button to make the playback bar appear.
Exit	Returns to the Music List screen.

Options for Music List

- 1 Press the **Q.MENU** button.
- 2 Use the \wedge or \vee button to move to a desired option and press the **OK**  button.
- 3 Use the \wedge , \vee , $<$, or $>$ button to set up each item.

Set Audio Play.

- **Repeat**
Selects repeat play.
- **Random**
Selects random play.

Set Audio.

You can change audio settings. (Refer to *AUDIO Settings* on page 42.)

BLUETOOTH

You can change Bluetooth settings. (Refer to *Setting Up Bluetooth on the Projector* on page 10.)

Viewing Files

You can see document files stored on a connected device.

Supported File Formats

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

Microsoft Office: 97/2000/2002/2003/2007 Version

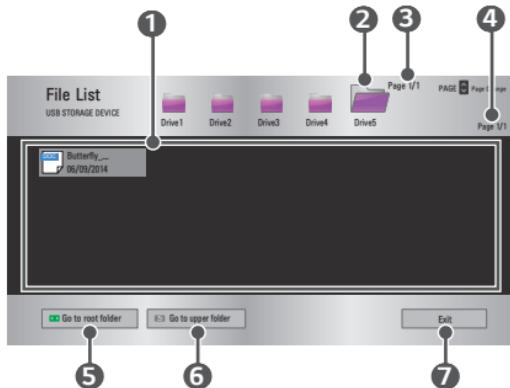
Adobe PDF: 1.0/1.1/1.2/1.3/ 1.4 Version

Hangul: 97/2000/2002/2005/2007 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.

Browsing File List

- 1** Connect a USB storage device.
- 2** Press the **USB/MY MEDIA** button.
- 3** Use the **<** or **>** button to select **File List** and press the **OK**  button.
- 4** Use the **^**, **▼**, **<**, or **>** button to select the file you want and press the **OK**  button.

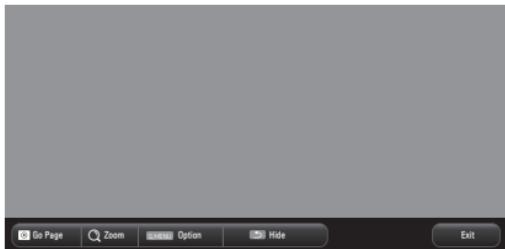


No.	Description
1	File List
2	Moves to the upper level folder.
3	Current page/Total no. of folder pages
4	Current page/Total no. of file pages
5	Moves to the top level folder.
6	Moves to the upper level folder.
7	Exits File List.

5 Control playback by using the following buttons.

- Click **Go Page**, then the pop-up window for selecting the number of page appears. Input the page to move to the page you want.
- Press the **VOL +, -** button to zoom in or zoom out.

Press the **OK** (●) button and then use the **Up/Down/Left/Right** buttons to move to **Go Page** or **Zoom**.



Item	Description
Go Page	Moves to the page you want. Use the Up/Down/Left/Right buttons to select a page and press the OK (●) button.
Zoom	Enlarges or reduces the document.
Option	Sets up the options of File Viewer.
Hide	Hides the menu. <ul style="list-style-type: none"> • Press the OK (●) button to make it appear.
Exit	Returns to the File Viewer screen.

Options for File List

- 1 Press the **Q.MENU** button.
- 2 Use the **↖, ↘, <, or >** button to set up each item.

Set FileViewer Option

- **Single Page Loading**

- **On** : Loads and displays pages one by one. The initial loading time is short but a content-heavy page may be displayed slowly.
 - **Off** : Loads all pages of a file to memory before it starts to display them. The initial loading time is long but you can navigate pages quickly after loading is complete.
- If a file is too large, it may fail to load all the pages.

- **Image Quality**

You can set the quality of the image included in the document. The following three options are available for the image quality: High, Medium, Low. Higher the image quality, lower the display time.

- **Document Align**

Selects initial document align method.

File Viewer settings are default, so close the currently opened document to apply changes to the new document, if any.

CUSTOMIZING SETTINGS

SETTINGS

- 1** Press the **SETTINGS** button.
- 2** Use the **Λ, Β, <, or >** button to select the desired item and press the **OK**  button.
- 3** Use the **Λ, Β, <, or >** button to set up the desired item and press the **OK**  button.
- 4** Press the **EXIT** button when completed.

Menu	Description
PICTURE	Adjusts the image quality for optimal viewing.
AUDIO	Adjusts the sound quality and volume level.
TIME	Sets time-related settings.
WIRELESS	Wireless-related features.
OPTION 1	Customizes the general settings.
OPTION 2	Customizes the settings related the projector.
INPUT	Selects the desired input source.
MY MEDIA	Accesses photo, music, movie, and document files.

PICTURE Settings

- 1 Press the **SETTINGS** button.
- 2 Use the **↖, ↘, <, or >** buttons to select **PICTURE** and press the **OK**  button.
- 3 Use the **↖, ↘, <, or >** button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4 Press the **EXIT** button when completed.



The available picture settings are described as follows.

• Energy Saving

Reduces power consumption by adjusting peak screen brightness.

- **Minimum/Medium/Maximum**

Applies the pre-set **Energy Saving** mode.

- **Picture Mode**

Selects the picture mode optimized for the viewing environment or the program. You can also customize advanced options for each mode.

- **Vivid**

Maximizes the visual effect of video.

Heightens contrast, brightness, and sharpness to display vivid images.

- **Standard**

Displays images in standard levels of contrast, brightness, and sharpness.

- **Cinema**

Optimizes the image for a movie.

- **Sport**

Optimizes the image for sports by emphasizing primary colors and dynamic actions.

- **Game**

Optimizes the image for playing games on fast-moving screens.

- **Expert1/Expert2**

Menu for adjusting picture quality that allows experts and amateurs to enjoy the best projector viewing.

- **Expert** mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.

- **Contrast**

Adjusts the difference between bright and dark regions of the screen.

- **Brightness**

Adjusts the overall screen brightness.

- **Sharpness**

Adjusts the sharpness of the borders between bright and dark. Horizontal and Vertical Sharpness are available only in **Expert1/Expert2**.

- **Color**

Adjusts the intensity of all colors.

- **Tint**

Adjusts the balance between red and green levels.

- **Advanced Control**

Customizes the advanced settings.

- **Picture Option**

Sets optional settings.

- **Picture Reset**

Resets values customized by the user.

Each picture mode is reset. Select the picture mode you wish to reset.

- **Aspect Ratio**

Resizes the picture.

Advanced Control

- **Dynamic Contrast**

Adjusts contrast and color to the optimal level according to the screen's brightness.

- **Dynamic Color**

Adjusts colors for more natural-looking colors.

- **Color Gamut**

Selects the range of colors that can be expressed.

- **Standard:** Displays the original colors of an input signal regardless of the display features.
- **Wide:** Makes use of the display's rich colors.

- **Skin Color**

Skin color spectrum can be separately set to implement the skin color as defined by the user.

- **Sky Color**

Sky color is set separately.

- **Grass Color**

Natural color spectrum (meadows, hills, etc.) can be separately set.

- **Gamma**

Sets the gradation curve according to the output of the picture signal in relation to the input signal.

- * Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

Expert Control

- **Dynamic Contrast**

Adjusts contrast and color to the optimal level according to the screen's brightness.

- **Color Gamut**

Selects the range of colors that can be expressed.

- **Standard:** Displays the original colors of an input signal regardless of the display features.

- **Wide:** Makes use of the display's rich colors.

- **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.

- **Color Temperature**

In **Expert** mode, you can customize the options of each mode.

Gamma: Select **1.9**, **2.2**, or **2.4**.

- **a. Method: 2 Points**

- **Pattern: Inner, Outer**

- **Points: Low, High**

- **Red/Green/Blue:** The adjustment range for each color is from **-50** to **+50**.

- **Apply to all inputs:** The values of the **Color Temperature** is applied to all the input modes.

- **b. Method: 20 Point IRE**

- **Pattern: Inner, Outer**

- **IRE** (Institute of Radio Engineers) is the unit indicating the size of a video signal and can be set to **5,10,15, ... 100**. You can fine-tune for each setting as shown below.

- **Luminance:** The adjustment range is **50** to **500**.

- **Red/Green/Blue:** The adjustment range is **-50** to **+50**.

- **Apply to all inputs:** The values of the **Color Temperature** is applied to all the input modes.

- **Color Management System**

Adjusts Red/Green/Blue/Cyan/Magenta/Yellow colors. Allows an expert to adjust the tint using a test pattern. Six colors (Red/Green/Blue/Cyan/Magenta/Yellow) can be selectively adjusted without affecting other colors. You may not see colors change on a normal picture even after adjustment.

- **Saturation Red/Green/Blue/Cyan/Magenta/Yellow, Tint Red/Green/Blue/Cyan/Magenta/Yellow, Luminance Red/Green/Blue/Cyan/Magenta/Yellow:** The adjustment range is **-30** to **+30** each.

* Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

Picture Option

- **Noise Reduction**

Reduces screen noise in the video.

- **MPEG Noise Reduction**

Eliminates noise generated while creating digital picture signals.

- **Black Level**

Adjusts the brightness or darkness of the screen to suit the black level of the picture input using the degree of darkness (black level) of the screen.

- **Real Cinema**

Optimizes the screen for movie viewing.

- **Color Temperature**

Adjusts the overall color of the screen to suit your preference.

Select **Warm**, **Natural**, **Cool**, or **Medium**.

AUDIO Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \wedge , \vee , $<$, or $>$ button to select **AUDIO** and press the **OK**  button.
- 3 Use the \wedge , \vee , $<$, or $>$ button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4 Press the **EXIT** button when completed.



The available audio settings are described as follows.

- **Sound Mode**

Sets the sound mode.

- **Standard**

Suitable for all types of video.

- **News / Music / Cinema / Sport / Game**

Sets audio optimized for a specific genre.

- **Sound Effect**

The user can select various sound effects.

- **Clear Voice II**

Makes the voice from the projector crisp and clear.

- **Virtual Surround**

LG's proprietary audio processing technology allows 5.1 channel-like surround sound from two speakers.

- When **Clear Voice II** is set to on, **Virtual Surround** cannot be selected.

- **Equalizer**

Adjusts the volume to a level of your choice using the Equalizer.

- Audio-band (**100 Hz / 300 Hz / 1 kHz / 3 kHz / 10 kHz**) can be adjusted from **-10** to **10**.

- **Reset:** Resets voice options that the user has changed.

- **Balance**

Adjusts the balance of the left and right speakers.

- **Reset**

Initialize the applied effect under the **Sound Effect** menu.

- **Auto Volume**

Automatically adjusts the volume level.

- **Sound Out**

Sets the audio output of the projector.

- **Projector Speaker**

Sound is output through the projector speaker.

- **External Speaker (Optical)**

Sound is output through the speaker connected to the optical port.

- **Digital Sound Out:** Sets up Digital Sound Output.

- **Bluetooth** Sound is output through the Bluetooth headset.

First, set **Bluetooth** to On.

- **Search Device**

Search for the device to connect to.

- **List of registered devices**

Connected devices are saved in the **List of registered devices**. The saved list of registered devices can be displayed.

- **AV Sync. Adjust**

Synchronizes video and audio directly when they do not match. If you set **AV Sync. Adjust** to **On**, you can adjust the sound output (projector speakers or SPDIF) to the screen image.

- **Projector Speaker**

Adjusts the synchronization of the sound from the projector's internal speakers. The + and - buttons allow the viewer to synchronize the audio with the video.

- **External Speaker**

Adjusts how the sound is synced to external speakers, such as an external speaker connected to the digital audio output port, LG audio device, projector speaker, SPDIF, and headphone.

The + and - buttons allow the viewer to synchronize the audio with the video.

- **Bluetooth**

Adjusts the synchronization between the video and the Bluetooth device sound.

- This feature is only available when a Bluetooth device is connected.
- Audio sync may vary by manufacturer.
- When playing video and music from a connected USB drive, **AV Sync. Adjust** can also be adjusted using the **Set Audio** menu.

- **Bypass**

Outputs broadcasting signals or the audio of an external device without audio delay. Audio may be output before video as it takes time to process video input into the projector.

TIME Settings

- 1** Press the **SETTINGS** button.
- 2** Use the **▲, ▼, <, or >** button to select **TIME** and press the **OK**  button.
- 3** Use the **▲, ▼, <, or >** button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4** Press the **EXIT** button when completed.

The available time settings are described as follows.



- **Sleep Timer**

Turns off the projector after a preset number of minutes.

To cancel the **Sleep Timer**, select **Off**.

- **Auto Off**

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

- **Automatic Standby**

Turns off the projector automatically after a set period of time if there is no button input on the projector.

WIRELESS Settings

- 1 Press the **SETTINGS** button.
- 2 Use the **↖, ↘, <, or >** button to select **WIRELESS** and press the **OK**  button.
- 3 Use the **↖, ↘, <, or >** button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4 Press the **EXIT** button when completed.



The available wireless settings are described as follows.

• SCREEN SHARE

The SCREEN SHARE displays the screen of the connected device. You can check the SCREEN SHARE's ID.

- **Group** This is the group setting for each device supporting the SCREEN SHARE feature. When the wireless connection is weak or unstable, adjust the group setting to correct the problem.
- **Channel** You can change the channel used for wireless connections.
 - **Search Channels:** Select channel searching methods.
 - Auto:** The projector searches for available channels and automatically selects the least used channel.
 - Manual:** You can select a channel manually.
- **Channel:** This is shown when **Search Channels** is set to **Manual**. It allows you to specify a channel number to use.

OPTION 1 Settings

- 1** Press the **SETTINGS** button.
- 2** Use the **Λ, V, <, or >** button to select **OPTION 1** and press the **OK**  button.
- 3** Use the **Λ, V, <, or >** button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4** Press the **EXIT** button when completed.



The available option 1 settings are described as follows.

- **Language**
Selects a desired Menu Language.
- **DivX(R) VOD**
Sets DivX related settings.
- **Initial Setting**
Resets all the projector settings to the factory default. Do not turn off the power during initialization.
- **Mode Setting**
Selects **Standard** or **Store Demo**. When in use in home, please select **Standard**. **Store Demo** mode is for store display.

OPTION 2 Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \wedge , \vee , $<$, or $>$ button to select **OPTION 2** and press the **OK**  button.
- 3 Use the \wedge , \vee , $<$, or $>$ button to set up the desired item and press the **OK**  button.
 - To return to the previous menu, press the  button.
- 4 Press the **EXIT** button when completed.



The settings for OPTION 2 are described as follows.

- **Edge Adj**

Edge Adj adjusts the right, left, top, and bottom width of the projected image if the projected image and screen are not perpendicular to each other due to a tilted screen.

- **Auto Keystone(Vertical)**

Auto Keystone(Vertical) 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.

- **PJT Mode**

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

- Select **Rear** when projecting from the back of the transparent screen purchased separately.
- Select **Front Ceiling** when installing the product on the ceiling.
- When the **PJT Mode** is **Rear Ceiling/Front Ceiling**, the left/right of the speaker changes automatically.

- **High Altitude**

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

- **Blank Image**

Selects a background for blank image.

- **Auto Power**

Makes the projector turn on automatically when the adaptor plug is inserted.

- **On:** When the AC/DC plug is connected to the projector, it turns on automatically.
- **Off:** When the AC/DC plug is connected to the projector, it goes into standby mode.

- **Self Diagnosis**

Troubleshoots functional problems that can arise while using the product.

* When the input is set to **SCREEN SHARE**, these features are disabled and cannot be used: **Edge Adj**, **PJT Mode**, and **Auto Keystone(Vertical)**.

