



Please read the safety information carefully before using this product.

PF1500G

# **LICENSES**

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7,295,673; 7,460,668; 7,515,710; 7,519,274.



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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**

## **MARNING**

- 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.

## **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.

### <u>Power</u>

## **WARNING**

- The appliance coupler is used as the disconnect device.
  - Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is easily accessible.

- The grounding wire should be connected
  - 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.
- Prevent dust from collecting on the power plug pins or outlet.
  - 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**

- Hold the plug firmly when unplugging.
  - A damaged wire may create a fire hazard.
- 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

#### When in Use

## **WARNING**

- Do not place anything containing liquid on top of the projector such as a vase, flower pot, cup, cosmetics, or 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.
- In the event that liquid or a foreign object falls into the projector, switch it off and unplug it from the power outlet and contact our service center.
  - This may result in fire or electric shock.
- Make sure that a child does not swallow the batteries when you replace the old remote control batteries 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.
- Do not put the plastic package used to pack the projector around your head.
  - This may 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 battery in an extremely high temperature environment.
  - This may result in fire.
- Do not use 3D glasses if you do not watch 3D.

# **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 at least 5-7 times the diagonal length of the screen.
  - If you watch the screen at a close distance for a long time, you may suffer from eyestrain.

- 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.

 Use air spray, a soft cloth, or a cotton swab moistened with a lens cleaning chemical or alcohol to remove dust or stains on the front projection lens.

## **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.

#### **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 signals.
  - 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.

- Do not stare directly into lens when in operation, eye damage can occur.
- No user serviceable parts inside unit. High voltage parts can cause shock and even electrocution.
- 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.
- 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.

## **CAUTION**

- 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.
- 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.
- Keep the batteries and remote out of reach of children.
  - This will prevent personal injury or damage to the product.
- Make sure that the battery is installed correctly.
  - This may prevent explosion or fire.
- Make sure you use the same type of batteries for replacement.
- Incorrect battery replacement may cause fire.

#### Risk Group 2

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

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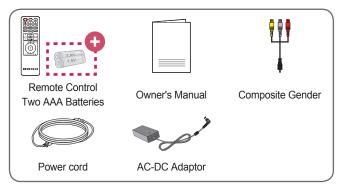
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# **PREPARATION**

The pictures may differ slightly from the actual product.

#### **Accessories**

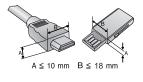
Accessories included with the projector are show below. Accessories are subject to change without prior notice. New accessories may be added or old ones removed.





Due to the environment government regulations about import and batteries destruction in Colombia, projectors will not bring the batteries of remote control included.

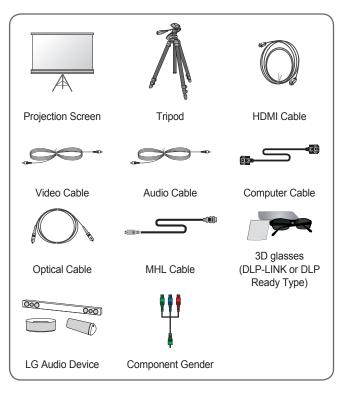
 When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm or less and a height of 10 mm or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.



- 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**

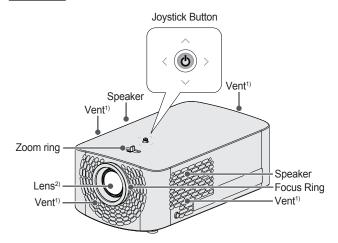
To purchase optional accessories, visit an electronics store or online shopping site or contact the retail store where you purchased the product. Optional accessories are subject to change without prior notice.



# **Parts and Components**

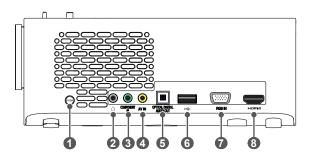
This projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue, or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.

### **Main Unit**



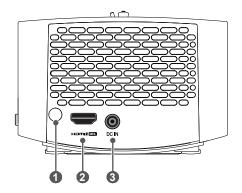
- 1) Due to the high temperature of vent area, do not get close to the vent area.
- 2) Do not touch the lens when using the projector. The lens may be damaged.

# Side



No.	Description
0	PUSH button
2	∩ (Headphone Port)
3	COMPONENT IN Port
4	AV IN Port
6	OPTICAL DIGITAL AUDIO OUT Port
6	•← (USB port)
7	RGB IN Port
8	Hami1 Port

# **Back**



No.	Description
0	IR Reciver
2	HDMI2 MHD Port
3	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**

< <u>\$</u> >	Power On	When the projector is turned off, place your finger on the joystick button, press it once, and release it.
< <b>®</b> >	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.)
<b>≪⊚</b> →	Volume Control	Place your finger over the joystick button and move it left or right. You can adjust the volume level.
<b>★⑤→</b>	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

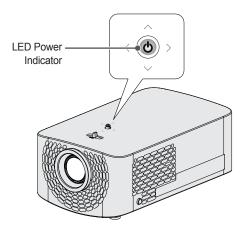
 Move the joystick button up, down, left, or right. Be careful not to press the joystick button. If you press the button while moving the joystick, the volume control may not work, and the cursor may not move.

## **Adjusting the Menu**

When the projector is turned on, press the joystick button one time. You can adjust the menu items ((), (, ), ()) 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.

(1)	(J	Projector off	Turns the power off.
		Input List	Changes the input source.
Close C	×	Close	Clears on-screen displays and returns to projector viewing.
X	**	Settings	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 wellventilated 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.

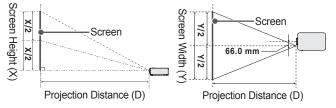


- Do not place the projector in a hot, cool, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
  - This may result in fire.
- Never open any cover on the projector. There is a high risk of electric shock.
- The projector is manufactured using high-precision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

- 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. (See page 32.)
- 4 Connect the power cord of the projector and the connected device to the wall outlet.

#### Ratio of upward projection: 100 %

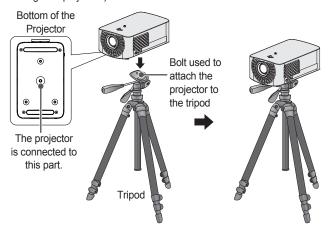


16:9 Aspect Ratio (Wide)			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (D) (mm)
762	664	374	905
889	775	436	1061
1016	886	498	1230
1143	996	560	1371
1270	1107	623	1526
1397	1218	685	1682
1524	1328	747	1837
1651	1439	809	1992
1778	1550	872	2147
1905	1660	934	2302
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.)



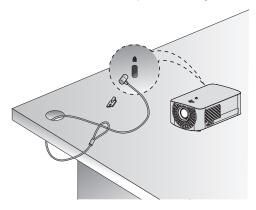


## CAUTION

- 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



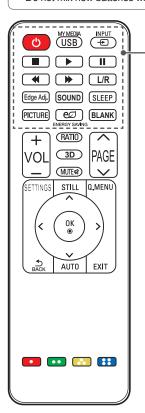
# REMOTE CONTROL

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





Do not mix new batteries with old ones.



## (POWER)

Turns the projector on or off.

#### USB/MY MEDIA

Accesses USB mode.

#### INPUT Ð

Changes the input source.

#### **Playback Control Buttons**

Controls playback of MY MEDIA.

#### L/R

Switches left and right in 3D mode.

#### Edge Adi.

Adjusts the Edge Adj settings.

#### SOUND

Changes the Sound Mode.

#### SLEEP

Sets the sleep timer.

#### **PICTURE**

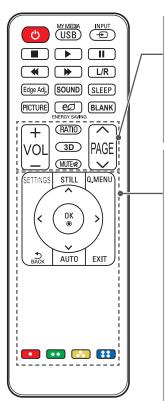
Changes the picture mode.

#### **ENERGY SAVING**

Reduces power consumption by adjusting peak screen brightness.

#### BLANK

Displays a blank screen.



VOL +. -

Adjusts the volume level.

PAGE ^, V

Moves to the previous/next page.

RATIO

Resizes an image.

3E

Shows 3D images.

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.

**⊅васк** 

Returns to the previous screen.

AUTO

Optimizes the screen automatically in RGB-PC input mode.

**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**

# **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.

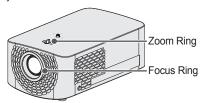
- 1 Connect the power cord correctly.
- 2 After waiting for a moment, press the POWER button on the remote control or the joystick button.
- 3 In the Language Selection screen, select a language.
- 4 In the Mode Setting screen, select the setting mode you want.



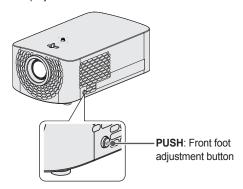
- \* Store Demo is used when displaying the product in-store. The picture mode is automatically reset after a certain period of time. You can select Standard to use the product at home.
- 5 Select an input signal by using the **INPUT** button on the remote control.

## Focus and Position 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.



- While pressing the PUSH button, adjust the projector upward/downward until the screen image is in the desired position.
- When you release the PUSH button, the front foot becomes fixed at the current position.

## 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 all sounds.
Q.MENU	Accesses the quick menu.
RATIO	Resizes an image.
Edge Adj.	Adjusts the Edge Adj settings.

4 To turn the projector off, press the **POWER** button.

# **Additional Options**

## **Adjusting Aspect Ratio**

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



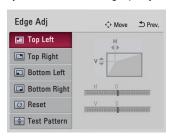
- · Available picture size may differ depending on the input signal.
- · You can also use the Q.MENU or SETTINGS button.

Menu	Description
16:9	Resizes images to the 16:9 ratio.
Just Scan	Displays video images in the original size without removing parts of the edge of the image.  If you select <b>Just Scan</b> , 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 ∨ 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 ∨ 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

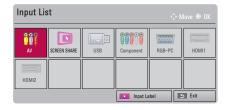
## **Changing Input Device**

#### To select an external input

Selects external input.

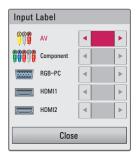
The illustration of the menu may differ from the actual screen on the product.

- Press the INPUT button on the remote control to display the input selection screen.
  - Connected inputs are displayed first. However, SCREEN SHARE and AV input 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 <, >, , , or V button to switch between all the input modes.



#### Selecting an Input Label

Displays which devices are connected to which input ports.



- Press the INPUT button on the remote control to display the input selection screen.
- 2 Press the **Red** button.
- 3 Use the  $\wedge$  or  $\vee$  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.

- 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 ∧, ∨, <, or > buttons to select **OPTION 2** and press the **OK** button.
- 3 Press the ∧, V buttons to select Blank Image and press the OK button.
- 4 Press the ∧ 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.

Menu	Description
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  $\wedge$  or  $\vee$  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

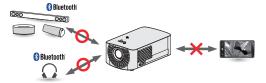
- Windows 7 / 8 / 8.1 are compatible with SCREEN SHARE. However, other versions of Windows, and some other operating systems, may not be compatible with SCREEN SHARE.
- Ice Cream Sandwich, Jellybean, and KitKat versions of LG's Android devices are guaranteed to be compatible.
- When connecting via SCREEN 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



- 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  $\rightarrow$  AUDIO  $\rightarrow$  Sound Out  $\rightarrow$  Bluetooth  $\rightarrow$  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.



- 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.





- 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  $\rightarrow$  AUDIO  $\rightarrow$  Sound Out  $\rightarrow$  Bluetooth  $\rightarrow$  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**  $\rightarrow$  **AUDIO**  $\rightarrow$  **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 Hard Disk Drive with its own power supply.
   (If the power being supplied is not sufficient, the USB storage device may not be detected correctly.) Note, a USB Hub is not supported.
- 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	Video	VC-1 Advanced Profile, VC-1 Simple and Main Profiles
.wmv	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
.mkv	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

### 44 MY MEDIA

Extension	Codec	
	Video	MPEG-1, MPEG-2
.vob	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM
.mpg	Video	MPEG-1
.mpeg	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
ACS	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,	Bit rate	24 kbps to 3844 kbps
HEAAC	Sampling rate	8 kHz to 96 kHz
CDDA	Bit rate	1.44 kbps
CDDA	Sampling rate	44.1 kHz
	Bit rate	1.41 Mbps to 9.6 Mbps
LPCM	Sampling rate	Multi-channel : 44.1 kHz, 88.2 kHz / 48 kHz, 96 kHz Stereo : 176.4 kHz, 192 kHz
		SIE1EU . 170.4 KHZ, 192 KHZ

# Available photo file

File type	Item	Info
2D (jpeg, jpg, jpe), 3D (jps)	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)
	Support File type	MPO
3D (mpo)	Picture Size	4:3 size : 3648 x 2736, 2592 x 1944, 2048 x 1536 3:2 size : 3648 x 2432
BMP Picture Size Minimum: 64 x 64 Maximum: 9600 (W) x 6400 (H)		The state of the s
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)

<sup>\*</sup> 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

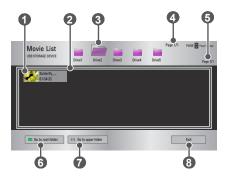
- Some subtitles created by users may not work properly.
- The video and subtitle files should be placed in the same folder. For subtitles to display correctly, the video and subtitle files must have the same name.
- We do not support any stream that contains GMC (Global Motion Compensation) or Qpel (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** button.

**4** Use the  $\bigwedge$  ,  $\bigvee$  , < , or > button to select the file you want and press the **OK** button.



No.	Description		
	Thumbnails		
0	Abnormal file		
	File not supported		
2	File List		
3	Moves to the upper level folder.		
4	Current page/Total no. of folder pages		
6	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.		

Control playback by using the following buttons.



Item	Description		
<b>◆</b> ▶	Shows the current playing position. Use < or > buttons to move forward or backward.		
	Stops playing and returns to Movie List.		
<b>•</b>	Returns to normal playback.		
11	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.		
<b>4</b> >	Whenever this button is pressed, the playback speed is changed.: x2, x4, x8, x16, x32		
eØ	Reduces power consumption by adjusting peak screen brightness.		
30	Switches to the 3D screen.		
Option	A pop-up window will appear.		
Hide	Hides the playback bar. Press the <b>OK</b> button to make it appear.		
Exit	Returns to the Movie List screen.		

# **Options for Movie List**

- 1 Press the Q.MENU button.
- $oldsymbol{2}$  Use the igwedge or igvee 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 Video Play.

Item	Description		
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 <b>On</b> or <b>Off</b> .  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 69.)

#### Set Audio.

You can change audio settings. (Refer to AUDIO Settings on page 75.)

#### Set 3D Video

You can set 3D video or 2D video.

#### 3D setting

You can set 3D settings. (Refer to OPTION 1 Settings on page 81.)

### 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.

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



2 Press the ∧ or ∨ button to move to Registration and press the OK button.



3 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 ∧ or ∨ button to go to Deregistration and press the OK button.
- 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)

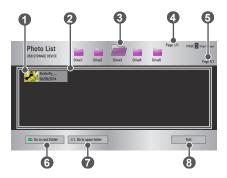
- · Only JPEG files are supported.
- Non-supported files are displayed in the form of an icon.
- An error message is displayed for corrupted files or file formats that cannot be played.
- Corrupted files may not be displayed properly.
- It may take some time to view high-resolution images in full screen.

# **Browsing Photo List**

- 1 Connect a USB storage device.
- 2 Press the **USB** 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		
0	Abnormal file		
	File not supported		
2	File List		
3	Moves to the upper level folder.		
4	Current page/Total no. of folder pages		
6	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		
00	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 siz  • Set the BGM in Option → Set Photo View. menu.			

Item	Description		
υ	Rotates photos.  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.		
Q	Views the photo in full mode or original mode.  Press the <b>blue</b> button to enlarge the image.		
eØ	Reduces power consumption by adjusting peak screen brightness.		
30	Switches to the 3D screen.		
Option	A pop-up window will appear.		
Hide	Hides the menu on the full size screen. To see the menu, press the <b>OK</b> button on the remote control.		
Exit	Exit from full screen photo view.		

# **Options for Photo List**

- 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  $\bigwedge$ ,  $\bigvee$ , <, or > button to set up each item.

### Set Photo View.

Item	Description		
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 69.)

#### Set Audio.

You can change audio settings. (Refer to AUDIO Settings on page 75.)

#### Set 3D Video

You can set 3D image or 2D image.

### 3D setting

You can set 3D settings. You can set 3D settings. (Refer to OPTION 1 Settings on page 81.)

# **Listening to Music**

You can play audio files stored on the connected device.

### Supported Music Files

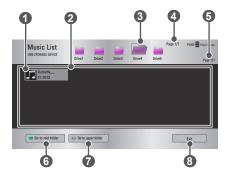
\*.MP3

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**

- Connect a USB storage device.
- 2 Press the **USB** 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		
	Thumbnails		
0	Abnormal file		
	File not supported		
2	File List		
3	Moves to the upper level folder.		
4	Current page/Total no. of folder pages		
6	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.		

Control playback by using the following buttons.



Item	Description	
<b>◆</b> ▶	Changes the playing position.	
	Stops playing.	
<b>•</b>	Returns to normal playback.	
II	Pauses the media player.	

Item	Description		
ЖЖ	Plays the previous/next file.		
eØ	Reduces power consumption by adjusting peak screen prightness.		
Option	Sets up the options of Music List.		
Hide	Hides the playback bar.  Press the <b>OK</b> button to make the playback bar appear.		
Exit	Returns to the Music List screen.		

# **Options for Music List**

- Press the Q.MENU button.
- ${f 2}$  Use the  ${f \wedge}$  or  ${f \vee}$  button to move to a desired option and press the  ${f ok}$ button.
- 3 Use the  $\bigwedge$ ,  $\bigvee$ ,  $\leqslant$ , or  $\gt$  button to set up each item.

# Set Audio Play.

Item	Description	
Repeat	Selects repeat play.	
Random	Selects random play.	

### Set Audio.

You can change audio settings. (Refer to AUDIO Settings on page 75.)

# Viewing Files

You can see document files stored on a connected device.

### Supported File Formats

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

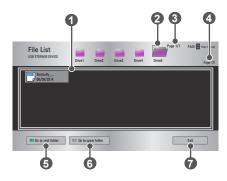
Microsoft Office: 97/2000/2002/2003/2007 Version

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** 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
0	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
6	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 <b>Up/Down/Left/Right</b> buttons to select a page and press the <b>OK</b> button.		
Zoom	Enlarges or reduces the document.		
Option	Sets up the options of File Viewer.		
Hide	Hides the menu.  • Press the <b>OK</b> 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  $\wedge$ ,  $\vee$ , <, or > button to set up each item.

### Set FileViewer Option

Item	Description		
	On	Loads and displays pages one by one. The initial loading time is short but a content-heavy page may be displayed slowly.	
Single Page Loading	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.

# 3D FUNCTION

3D technology uses different video frames for each eye to add depth to the video.

# While Watching 3D

# **WARNING**

- If you view 3D video or images too closely for a long period of time, you may experience eyestrain.
- If you watch the projector or game screen for a long time with 3D glasses on, you may experience dizziness or eye fatigue.
- People with chronic diseases (epilepsy, cardiovascular disease, blood pressure-related diseases, etc.), pregnant women, and people with serious motion sickness should avoid watching 3D video.
- People with stereo blindness, or with stereopsis problems, should also avoid watching 3D video content. It may cause double vision or visual discomfort.
- People with strabismus, amblyopia, or astigmatism may have difficulty perceiving video depth and may be fatigued easily due to double vision or other ailments. It is recommended to rest more frequently than other viewers.
- Because 3D can be perceived as real, some viewers may be surprised or overexcited.
- Do not watch 3D images near fragile objects or any objects that can be knocked over easily.
- Take care not to injure yourself as you may subconsciously try to move away from the life-like 3D images.

### Warning about photosensitivity seizures

- Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular patterns from a video game. If anyone in your family has a history of epilepsy or has ever experienced any kind of seizure, please consult your doctor before viewing 3D images.
  - If you experience one of the following symptoms while watching a 3D video, stop watching the 3D video immediately and take a rest.
- Dizziness, switched eyesight, twitching of the eye or facial muscles, involuntary movements, cramp, loss of consciousness, confusion, loss of sense of direction, or nausea. If the symptom does not disappear, please consult your doctor.
- You can reduce the risk of photosensitive seizures by taking the following preventive measures.
  - Take a rest of 5 to 15 mins. for every 1 hour of viewing.
  - If vision varies between each eye, correct the variation before beginning to watch a 3D video.
  - Ensure that the 3D video is directly in front of you, at eye level.
  - You should stop watching if you experience a headache, fatigue, or dizziness.
  - Do not view 3D images for a long period of time when you are tired or ill.

### **↑** CAUTION

Extra special care is required for children watching a 3D video.

### When Watching 3D Video

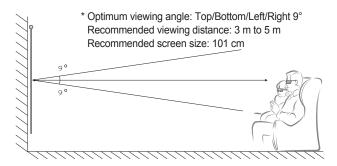
- Prevent children of 5 years or younger from watching a 3D video. It may impair the development of their eyes.
- Children 10 years old or younger are still developing their eyesight and may have an excessive tendency to touch or jump at the screen. Adult guidance and supervision is recommended.
- Since the distance between the eyes is narrower for children than in adults, children tend to notice a greater difference in the images seen by each eye. Therefore, even while watching the same 3D video, children may have a greater depth perception than adults.
- Children under 19 years old or younger may respond with sensitivity to the light stimuli of 3D content. Excessive viewing when fatigued is not recommended

- Elderly viewers may have a reduced depth perception than younger viewers. Avoid watching video nearer than the recommended distance.
- Watch 3D images within the optimum viewing angle and distance.
- If you are outside the viewing angle or distance, you may not be able to see 3D images. You cannot view 3D images when you are lying down.
- You may see left and right images overlapped during projector initialization after it is powered on. It may take some time for optimization.
- It may take some time for the 3D image to look normal after you turn your eyes away from the screen and look back at the 3D image.
- It may flicker slightly while watching 3D images under a 3 wavelength lamp fluorescent light (50 Hz to 60 Hz) or near windows. If so, it is recommended to block the sun light with a curtain and to dim the lights.
- The 3D glasses must be DLP-LINK (DLP Ready) type.
- You may not be able to watch 3D properly if there is an obstacle between the projector and 3D glasses.
- Install the 3D projector as far as possible from other devices.
- If a future 3D broadcasting format that is not supported by this projector becomes the standard, an additional device such as a set-top box may be required.

# Please check the following when using 3D glasses.

- Do not use 3D glasses as ordinary glasses, sunglasses, or protective goggles.
  - If you do so, this may cause injury.
- Do not store 3D glasses in very hot or very cold conditions. If you do, this may cause them to become distorted. Do not use distorted glasses.
- Do not drop 3D glasses or allow them to come into contact with other objects.
  - This may cause product malfunction.
- The lenses of 3D glasses are easily scratched. Use a soft clean cloth when cleaning them.
- · Foreign particles on the cloth may cause scratches.
- Do not scratch the surface of the 3D glasses' lenses with sharp objects or wipe them with chemicals. If the lenses get scratched, images may not look normal when viewing 3D.

# **Requirements for Watching 3D Images**



\* Watching 3D videos should be done in dark room environments only.



# NOTE

- The pairing with the DLP-LINK glasses is affected by the intensity of light reflected from the screen. Therefore, the pairing with DLP-LINK glasses may not work properly if the light reflected from the screen is not bright enough, such as when the surrounding area is bright, the screen is big, or the maximum energy saving mode is enabled.
- Some menus may not work while playing a 3D video.
- You can only watch a 3D video properly when the 3D video format option has been selected on the projector.

# Using the DLP-LINK (DLP-Ready) Type Glasses

- 1 While watching 3D images from the projector, press buttons on the glasses.
- When you press the button, the glasses flicker while synchronizing with the 3D images. (The flickering is a unique operation method of DLP-LINK type glasses. It may be different depending on the glasses type.)
- 3 If the glasses flicker or problems occur while watching 3D, first turn the lights off to make the room darker. Contact your projector seller for queries about the glasses.

# To view 3D images

3D imaging is a technology that utilizes the slight difference in left/ right eyes to make the images on the projector appear just like real-life 3-dimensional space.

- Play a 3D-image title or tune to a 3D channel.
- 2 Press the **3D** button to activate 3D.
- 3 Turn on the 3D glasses and put them on.
- 4 While viewing 3D images, press the **3D** button on the remote control to end 3D image viewing.
- 5 Press the L/R button to switch the playing direction of an image. Select a screen with better 3D display quality.
  - If you press the 3D button during viewing, it returns to 2D.
- \* Depending on the input signal, the available 3D type may differ.

# Supported 3D Mode

	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Supported 3D Formats
	720p	1280 x 720	89.9 / 90	59.94 / 60	Frame Packing
			45	60	Side by side (half), Top and Bottom
	1080i	1920 x 1080	33.7	60	Side by side (half), Top and Bottom
		1920 x 1080	53.95 / 54	23.98 / 24	Frame Packing
HDMI	1080p		67.5	60	Side by side (half), Top and Bottom, Single Frame Sequential
			27	24	Side by side (half), Top and Bottom
			33.7	30	Side by side (half), Top and Bottom
USB	1080p	1920 x 1080	33.75	30	Side by side, Top and Bottom, MPO, JPS (Photo)
RGB	1080p	1920 x 1080	67.5	60	Side by side(half), Top and Bottom

# **CUSTOMIZING SETTINGS**

# **SETTINGS**

- 1 Press the **SETTINGS** button.
- 2 Use the  $\wedge$  .  $\vee$  .  $\leq$  . or > button to select the desired item and press the **OK** button.
- 3 Use the  $\wedge$ ,  $\vee$ ,  $\leq$ , 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 → BACK button.
- 4 Press the EXIT button when completed.



The available picture settings are described as follows.

Menu	Description		
	Reduces power consumption by adjusting peak screen brightness.		
Energy		Mode	
Saving	Minimum/ Medium/ Maximum	Applies the pre-set <b>Energy Saving</b> mode.	

Menu	Description		
	Selects the picture mode optimized for the viewing environment or the program.  You can also customize advanced options for each mode.		
		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.	
Picture Mode	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 <b>Expert1 / Expert2</b> .		
Color	Adjusts the i	ntensity of all colors.	
Tint	Adjusts the b	palance between red and green levels.	
Advanced Control	Customizes the advanced settings.		
Picture Option	Sets optional settings.		

Menu	Description		
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 p	icture.	
	Adjusts the pi	cture quality of RGB-PC input.	
		Option	
	Resolution	Available resolutions are 768 resolution (1024 x 768/ 1280 x 768/ 1360 x 768, 60 Hz).	
Screen (RGB-PC)	Auto Config.	Provides optimized picture quality by automatically calibrating the mismatch of horizontal width and picture shake caused by clashes between the internal settings of the projector and various PC graphic signals.  You can also use the AUTO button on the remote control.	
	Position	Moves the image up/down/left/right.	
	Size	Changes the screen size.	
	Phase	Makes the picture look clear by removing horizontal noise.	
	Reset	Restores all the settings to the factory default.	

### **Advanced Control**

Menu	Description			
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.			

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

# **Expert Control**

Menu	Description
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.

Menu	Description		
	In <b>Expert</b> mode, you can customize the options of each mode.		
Color Temperature	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.		

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

#### 74 CUSTOMIZING SETTINGS

#### **Picture Option**

Menu	Description	
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 ∧, ∨, <, or > button to select AUDIO 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 → BACK button.
- 4 Press the EXIT button when completed.



The available audio settings are described as follows.

Menu	Description	
	Sets the sound mode.	
	Mode	
0	Standard	Suitable for all types of video.
Sound Mode	News / Music / Cinema / Sport / Game	Sets audio optimized for a specific genre.

Menu	Description		
	The user can select various sound effects.		
	Mode		
	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.	
Sound Effect	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.		

Menu	Description			
	Sets the audio output of the projector.			
		ı	Mode	
	Projector Speaker	Sound is output through the projector speaker.		
	External		Sound is output through the speaker connected to the optical port.	
Sound Out	Speaker (Optical)	Digital So Sound Ou	und Out: Sets up Digital tput.	
	Bluetooth	headset.	put through the Bluetooth  uetooth to on.	
			Item	
		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.	

Menu	Description		
	Synchronizes video and audio directly when they do not match. If you set <b>AV Sync. Adjust</b> to <b>On</b> , you can adjust the sound output (projector speakers or SPDIF) to the screen image.		
	Mode		
	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.	
AV Sync. Adjust	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 → BACK button.
- 4 Press the EXIT button when completed.



The available time settings are described as follows.

Menu	Description
Sleep Timer	Turns off the projector after a preset number of minutes. To cancel the <b>Sleep Timer</b> , select <b>Off</b> .
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 → BACK button.
- 4 Press the **EXIT** button when completed.



The available wireless settings are described as follows.

Menu	Description		
	The SCREEN SHARE displays the screen of the connected device.		
	You can ch	eck the SCREEN SHARE's ID.	
		Mode	
	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.	
SCREEN SHARE	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  $\wedge$ ,  $\vee$ , <, or >button to select **OPTION 1** 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 SBACK button.



4 Press the **EXIT** button when completed.

The available option 1 settings are described as follows.

Menu	Description		
Language	Selects a desire	ed Menu Language.	
	Adjusts various	aspects of 3D imaging.	
3D Mode		Mode	
ob mode	3D Picture Correction	Switches left/right images of 3D video.	
Auto Input Search	Automatically searches for and displays the input signal type when it is received. It is available only with external inputs (RGB-PC, HDMI1, HDMI2, AV, and Component).		
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 ∧, ∨, <, or > button to select **OPTION 2** 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 → BACK button.
- 4 Press the **EXIT** button when completed.



The settings for OPTION 2 are described as follows.

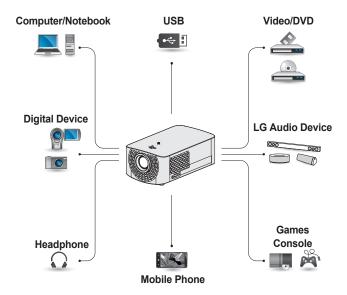
Menu	Description		
Edge Adj	Edge Adj adjusts the right, left, top, and bottom width of the projected image if the projected image and screen are not perpendicular to each other due to a tilted screen.		
Auto Keystone	Auto Keystone(Vertical) provides a rectangular screen image by automatically adjusting the Keystone number when there is a trapezoidal screen image caused by tilting of the projector.		
(Vertical)		Item	
	On	Automatically adjusts the Keystone number.	
	Off	Manually adjusts the Keystone number.	
	This function turns the projected image upside down or flips horizontal.		
PJT Mode	Select <b>Rear</b> when projecting from the back of the transparent screen purchased separately.		
PJI Wode	Selection     ceilin	ct <b>Front Ceiling</b> when installing the product on the lag.	
	When the PJT Mode is Rear Ceiling/Front Ceiling the left/right of the speaker changes automatically.		

Menu		Description	
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.		
	Makes the projector turn on automatically when the adaptor plug is inserted.		
A 4	Item		
Auto Power	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.		

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

## **CONNECTING DEVICES**

You can connect various external devices to the projector.



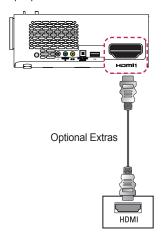
HDMI - Page 85
Composite (AV) - Page 86
Component - Page 87
RGB - Page 90
USB Device - Page 41
Headphone - Page 92
Digital Amp - Page 92
Mobile Phone (MHL) - Page 94

## Connecting to HD Receiver, DVD, or VCR Player, External Devices

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

#### **HDMI Connection**

With an HDMI cable, you can enjoy high quality picture and sound. Using a HDMI cable, connect the Hamil port of the projector to the HDMI output port of the device to connect. Both video and audio are output at the same time. You can also use the Hamil Mill. Press the INPUT button on the remote control to select HDMI. You can connect with any HDMI input port.

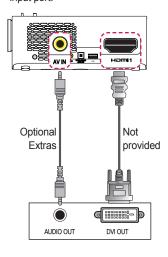


#### **HDMI to DVI Connection**

Using an HDMI to DVI cable, connect the projector's Hamil port to the DVI OUT port.

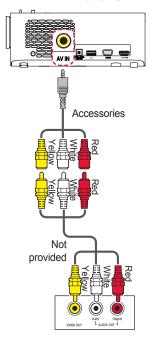
To output audio, use an audio cable for connection. You can also use the Hamil (MI).

Press the INPUT button on the remote control to select HDMI. You can connect with any HDMI input port.



#### **AV** Connection

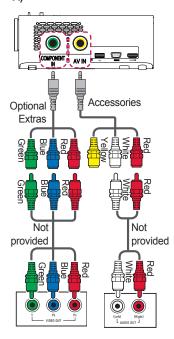
Connect the output ports of an external device and the **AV IN** ports of the projector using an AV cable. Press the **INPUT** button on the remote control to select **AV**. Check whether cables of the same color are connected properly.



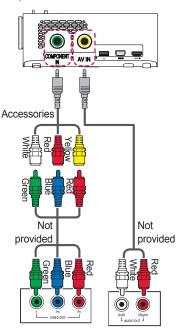
### **Component Connection**

You can enjoy a video by connecting the component port of an external device to the **COMPONENT IN** port of the projector. Press the **INPUT** button on the remote control to select **Component**. Check whether cables of the same color are connected properly.

#### A)



#### B)



## Connecting a PC

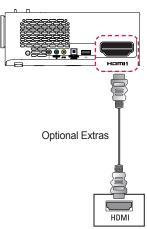
The projector supports Plug & Play. Your PC will automatically detect the projector and requires no driver installation.

#### **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. You can also use the

#### HDMI2 Mil.

Press the **INPUT** button on the remote control to select **HDMI**. You can connect with any HDMI input port.

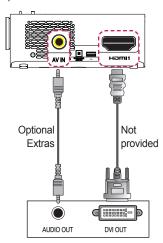


## **HDMI to DVI Connection**

Using an HDMI to DVI cable, connect the projector's **HDMI1** port to the DVI OUT port.

To output audio, use an audio cable for connection. You can also use the Hamia MHs.

Press the **INPUT** button on the remote control to select **HDMI**. You can connect with any HDMI input port.





## NOTE

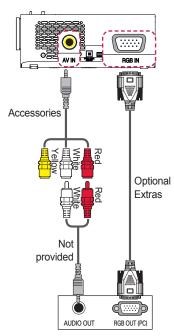
- It is recommended to use an HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode video may not work if a HDMI to DVI Cable is in use.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast, or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate, or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- If you are using DVI out from a PC, you have to connect analog audio separately.
- When using the HDMI/DVI cable, Single link only is supported.

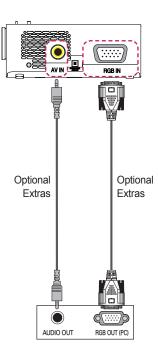
#### **RGB Connection**

Connect the PC output and the PC video input port of the projector with the RGB cable.

For audio signal, connect the PC and the projector with an optional audio cable.

Press the **INPUT** button on the remote control to select **RGB-PC**.





You can connect the audio cable without using a gender as shown in the illustration above

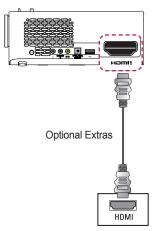
## **Connecting a Laptop**

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

#### **HDMI Connection**

Using an HDMI cable, connect the HDMI output port of the projector to the HDMI output port of your laptop. Both video and audio are output at the same time. You can also use the HDMI2 (MIR).

Press the **INPUT** button on the remote control to select **HDMI**. You can connect with any HDMI input port.

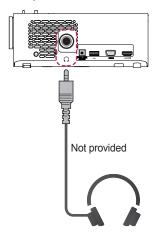


The table below shows examples of switching the output. For more information, refer to the **External Output**, **Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

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.

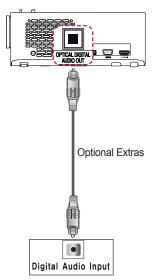
# Connecting Headphones

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) as shown below. 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.)

## Using the Mirroring Function of a Mobile Phone

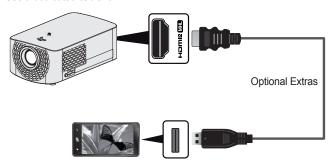
#### **MHL Connection**

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 HDM12 MHL port.

Use a dedicated cable for MHL.





- When you connect a mobile phone to the Hami2 MHD 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.
  - Your mobile device is fully charged in standby mode.

## **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**

Model	PF1500G (PF1500G-GL)		
Resolution (Pixel)	1920 (Horizontal) × 1080 (Vertical)		
Aspect Ratio	16:9 (Horizontal:Vertical)		
Panel size (mm)	11.896		
Projection Distance (Video size)	Wide: 0.91 m to 3.70 m (76.2 cm to 304.8 cm) Tele: 0.91 m to 3.70 m (69.3 cm to 277.1 cm)		
Ratio of Upward Projection	100 %		
Working range of the remote control	6 m		
Power	AC 100 - 240 V, 50 Hz/ 60 Hz		
Power consumption	100 W		
AC-DC Adaptor	Manufacturer: HONOR Model: ADS-110CL-19-3 190110G 19 V === 5.79 A	Manufacturer: CHICONY Model: A16-140P1A 19 V === 7.37 A (only India)	
Audio Output	(Adaptor Input 100 - 240 V @ 50/60 Hz)		
Video Input	NTSC M / PAL-B, D, G, H, I / PAL M / PAL N / PAL 60 / SECAM		
Height (mm)	84 (without foot) / 87 (with foot)		
Width (mm)	132		
Depth (mm)	213 (without lens) / 220 (with lens)		
Weight (g)	1500		
USB Device	5 V, 0.5 A (Max.)		

Operation environment	Temperatur	Temperature	
	Operation	0 °C to 40 °C	
	Storage	-20 °C to 60 °C	
	Relative hu	Relative humidity	
	Operation	0 % to 80 %	
	Storage	0 % to 85 %	

<sup>\*</sup> Contents in this manual may be changed without prior notice due to upgrade of product functions.

#### Supported RGB-PC/HDMI(PC) Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
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 & Play function (Auto-recognition of PC monitor).
- PC synchronization signal types supported: Separate type synchronization.
- In PC mode, 1920 x 1080 (1080p) is recommended for the best picture quality.

#### Supported HDMI/DVI-DTV Mode

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

 To provide the best picture quality, a 1920 x 1080 (1080p) resolution is recommended.

#### **Component Port Connecting Information**

Signal	Component
480i / 576i	0
480p / 576p	0
720p / 1080i	0
1080p	O (50 Hz / 60 Hz only)

#### **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  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 

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**

$\sim$	Refers to alternating current(AC).
===	Refers to direct current(DC).
	Refers to class II equipment.
Ф	Refers to stand-by.
	Refers to "ON" (power).
4	Refers to dangerous voltage.



The model and serial numbers of the projector are located on the back or on the side of the projector. Record them below should you ever need service.

model .		
SERIAL		