

# Owner's Manual LG Minibeam DLP Projector

Please read the safety information carefully before using the product.

PW700

www.lg.com

# LICENSE

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HD.

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This device meets the EMC requirements for home appliances (Class B) and is intended for home usage. This device can be used in all regions.



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

# SAFETY INSTRUCTIONS

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 injury to persons or damage to the product.

• Read the owner's manual carefully and keep it to hand.

A





The lightning flash with arrowhead symbol, within an equilateral triangle, is

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



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important

operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### WARNING/CAUTION

- TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

### Indoor Installation

#### **WARNING**

- Do not use the projector outside and do not expose the product to any humidity or water.
  - Since the product is not waterproof, this may result in a fire or electric shock.
- Do not place the projector in direct sunlight or near heat sources such as radiators, fires, stoves, etc.
  - This may result in fire.
- Do not place flammable materials such as aerosols near the projector.
   This may result in fire.
- Do not allow children to cling to or climb up to the projector.
  - This may cause the projector to fall, causing injury or death.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a closet) or on a carpet or cushion.
  - This may result in fire due to the increase in internal temperature.
- Do not place the product close to sources of steam, oil or oil mist, such as humidifiers and kitchen counters.
  - Failure to do so may result in fire, electric shock, or corrosion.
- Do not install the product onto a wall or ceiling that is close to sources of oil or oil mist.
  - The product may be damaged and fall, resulting in serious injury.

- Do not place the projector where it might be exposed to dust.
  - This may result in fire.
- Do not use the projector in a damp place such as a bathroom where it is likely to get wet.
  - This may result in fire or electric shock.
- Do not allow a tablecloth or curtain to block the air vent.
  - This may result in fire due to the increase in the internal temperature.
- Ensure good ventilation around the projector. The distance between the projector and the wall should be at least 30 cm.
  - This will prevent fire due to the increase in the internal temperature.

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- When placing the projector on a table or shelf, be careful not to put it near the edge.
  - The projector could fall due to balance problems, which may cause personal injury or damage to the product. Make sure to use the projector cabinet or stand that fits the projector.
- When moving the projector, make sure to switch it off and remove the power plug and cords.
  - The power cord may be damaged, resulting in fire or electric shock.
- Do not place the projector on an unstable or vibrating surface such as a wobbly shelf or a slope.
  - It may fall and cause injury.

- Be careful not to tip the projector over when connecting external devices to the projector.
  - This may cause personal injury or damage to the projector.

#### Power

#### **WARNING**

- 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.

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- 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 tread 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.
- Keep the plastic film used for packaging the projector out of the reach of children.
  - If not handled safely, it can cause suffocation.
- Do not keep your hand on the projector for a long time when it is running.
- When you play a game by connecting a game console to a projector, it is recommended that you maintain a distance of more than four times the diagonal length of the screen.
  - Make sure that the connecting cable is long enough. Otherwise, the product may fall causing personal injury or damage to the product.

- Do not place the projector or its remote control with 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 more than 5 to 7 times the diagonal length of the screen.
  - If you watch the screen at a close distance for a long time, your eye sight may become worse.

- 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.
- 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. 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, 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 shiner, 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).
- Remove the plug from the outlet before cleaning the product.
  - Otherwise, this may result in electric shock.

### **Others**

#### **WARNING**

- 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.
- 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 highprecision electronic devices or those that transmit weak radio signal.
  - This may affect the operation of the product, causing an accident.
- Only a qualified technician can disassemble or modify the projector.
   For diagnosis, adjustment, or repair, contact your seller or our service center.
  - This may result in fire or electric shock.
- Proper ventilation required, do not block airflow around unit. Doing so can cause injury and internal overheating.
- To prevent damage to lamp, unit must remain plugged in for approximately 3 minutes after power down to allow for proper cool down (not applicable on LED models).
- Do not touch the lens; doing so can result in burns or damage to lens. Lens and unit may be HOT during and immediately after use. Use caution when handling unit, allowing for proper cool down.
- Only use a grounded electrical outlet.
- Do not insert anything into or cover up the exhaust vents.
  - This may result in fire or electric shock.
- Follow all maintenance guidelines for optimal use; service only at an authorized service center.
- Lamp contains mercury and as such must be disposed of according to local, state and federal laws (not applicable on LED models).

- Keep the batteries and remote out of reach of children.
  - This will prevent personal injury or damage to the product.

#### **▲** CAUTION

- Do not use or store the projector outdoors for long periods of time.
- Do not mix new batteries with old ones.
  - Burst or leaking batteries may result in damage or injury.
- Be sure to unplug if the projector is not to be used for a long period.
  - Accumulated dust may result in fire or electric shock due to overheating, ignition, or poor insulation.
- · Only use the specified type of battery.
  - Burst or leaking batteries may result in damage or injury.
- Make sure you use the same type of battery when replacing.
  - In the case of a battery contact failure, the battery may drain quickly or the remote control may not work properly.
- The battery contains lithium-ion, so it must be handled with care.
  - This may result in explosion or fire.
- Do not charge the battery using any equipment other than what has been provided with the projector.
  - This may damage the battery or cause a fire.
- · 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.

- Always use batteries approved and certified by LG Electronics.
  - This will prevent damage or fire.
- Store batteries away from metallic objects, such as keys and paper clips.
  - Excess current may cause a rapid increase in temperature, resulting in fire or burns.
- Do not store the batteries near any heat source, such as a heater.
  - This may result in fire or damage to the product.
- Do not store batteries at temperatures higher than 60 °C or in high humidity.
   This may result in explosion or fire.
- Make sure that the battery is installed
- correctly.
- This prevent explosion or fire.
- 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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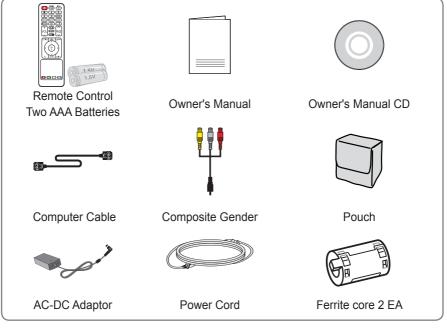
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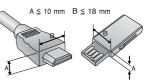
# PREPARATION

## Accessories

Accessories included with the project are show below. The pictures may differ slightly from the actual product. Accessories are subject to change without prior notice. New accessories may be added or old ones removed.



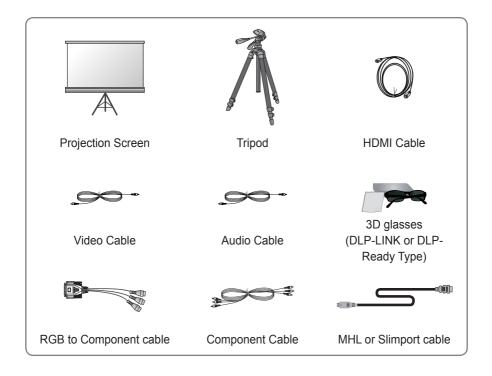
 When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm or less and a height of 10 mm or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.



- 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<sup>®</sup>/™ Cable
  - High-Speed  $\text{HDMI}^{\text{\tiny B}/\text{\tiny TM}}$  Cable with Ethernet

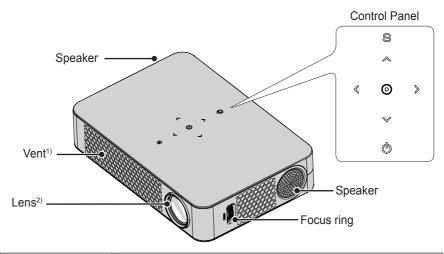
## **Optional Extras**

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**

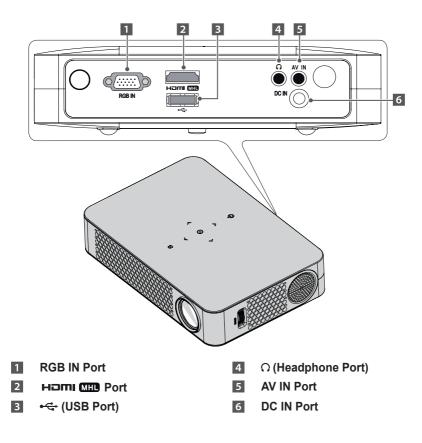
The projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.



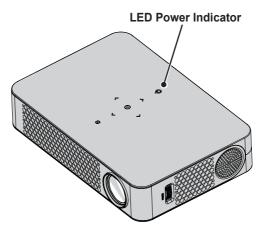
Button	Description	
🕑 (POWER)	Turns the projector on or off.	
S (SETTINGS)	Displays or closes the Settings menu.	
$\land, \lor, \lt,  angle$	Sets the function or moves the cursor.	
	(«, $\gg$ button : The volume can be adjusted according to the	
	input mode)	
© (OK)	Shows the current mode and saves changes to the settings.	

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.



## **Projector Status Indicators**



LED Power Indicator		
White	Power standby state	
Off	The projector is operating with the power on.	
Emits a white light and then turns off.	A button has been pressed.	

## Installation

## **Installation Precautions**

- Place the projector in a well-ventilated environment.
- To prevent internal heat build-up, install the projector in a wellventilated place.
   Do not place anything near the projector as this may block its air

vents. If the air vents are blocked, the internal temperature will increase.



 Do not place the projector on a carpet or rug. If the vent is on the bottom, use the projector on a solid level surface and ensure the vent is not blocked.



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



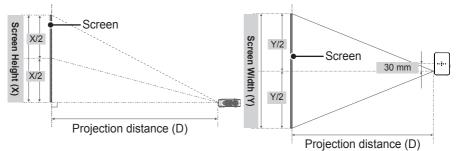
- Leave enough distance (30 cm or more) around the projector.



- Do not place the projector in a hot or humid environment.
  - Do not place the projector in a hot, cold, 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.

## **Projection Distance per Screen Size**

- 1 Place the projector on a sturdy, level surface, together with the PC or audio/video source.
- **2** Place the projector an appropriate distance away from the screen. The distance between the projector and the screen determines the actual size of the image.
- **3** Position the projector so that the lens is at a right angle to the screen. If the projector is not at a right angle, the projected image will look distorted. To correct the distortion, use the Keystone function. (see page 25.)
- **4** Connect the power cord of the projector and the connected device to the wall outlet.

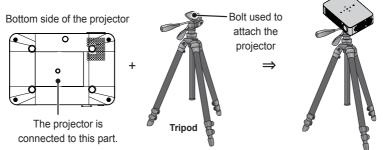


Ratio of upward projection: 100 %

	16:10 Ratio		
Screen Size	Screen Width	Screen Height	Projection Distance
(mm)	(Y) (mm)	(X) (mm)	(D) (mm)
635	538	337	803
762	646	404	966
889	754	471	1130
1016	861	539	1293
1143	969	606	1456
1270	1077	673	1619
1397	1185	741	1783
1524	1292	808	1946
1651	1400	875	2109
1778	1508	943	2272
1905	1615	1010	2436
2032	1723	1077	2599
2159	1831	1145	2762
2286	1938	1212	2925
2413	2046	1279	3089
2540	2154	1347	3252

## How to Install the Projector On a Tripod

- You can install this 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.)

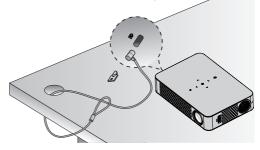


### 

- 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. 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 security systems for laptops and other electronic devices. Website: http://www.kensington.com

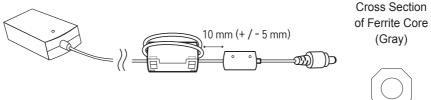


## How to use the ferrite core

\* Use the ferrite core as illustrated below to reduce electromagnetic radiation.

\* The pictures may differ slightly from the actual product.

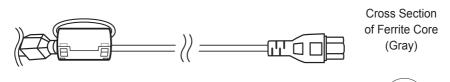
1 Put the ferrite core around the AC/DC adaptor cable as illustrated below. Place the ferrite core as close to the projector as possible for best results.



**Power Cord** 

Projector

2 Put the ferrite core around the power cable as illustrated below. Place the ferrite core as close to the power plug as possible for best results.



**Power plug** 

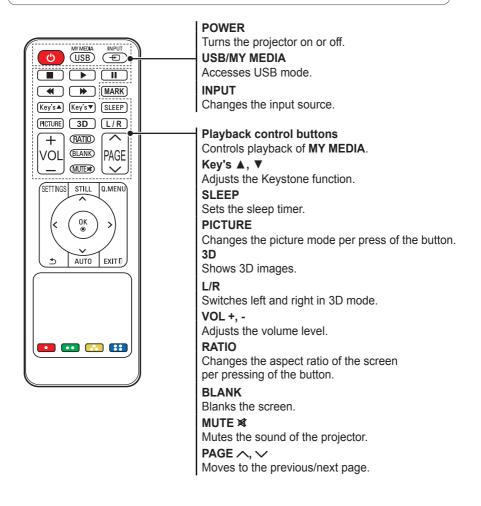
AC/DC adaptor

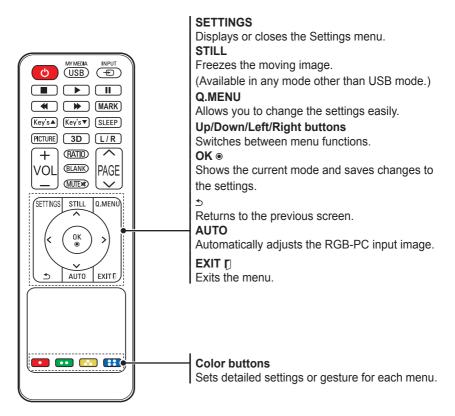
# **REMOTE CONTROL**

Open the lid at the back of the remote control and insert the batteries as described in the  $\oplus$  $\bigcirc$  instructions. Use new batteries and do not mix regular or rechargeable batteries. (1.5 V AAA)



· Do not mix new batteries with old ones.





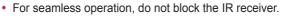
 MARK button is used when a software update is required. (MARK button is not available for a user.)



## 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.





 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 control panel.
- **3** In the Language Selection screen, select a language.

	WELCOME! Thank you for choosing LG			
La	anguage			
	한국어	Deutsch	English	
	Español	Ελληνικά	Français	
	Italiano	Polski	Português	
	Português (Brasil)	Svenska	Русский	
	Turkçe	العربية	中文	
	繁體中文			
-		· · · · · · · · · · · · · · · · · · ·	Confirm	

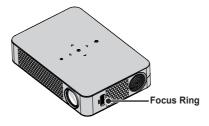
**4** Select an input signal by using the **INPUT** button on the remote control.

Input Li	st				↔ Move ⊗ OK
AV	Component	SCREEN SHARE	USB	RGB-PC	HDMI
			Inpu	rt Label	Exit

## Focus of the Screen Image

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

To adjust the focus of the image, rotate the focus ring.



## Watching Projector

- 1 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	lutes all sounds.	
Q.MENU	Accesses the quick menu. (see page 27.)	
RATIO	Resizes an image.	
Key's <b>▲</b> ,▼	Adjusts Keystone. (see page 25.)	

**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.
Full	Changes to the full screen
	regardless of the aspect
	ratio.
Just	Displays video images in
Scan	the original size without
	removing parts of the edge
	of the image.
	<ul> <li>If you select Just Scan,</li> </ul>
	you may see image
	noises at the edge or
	edges of the screen.
Set By	Displays images in the
Program	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 $\leq$ or $\geq$ button to
	zoom in or out of the image.
	Press the $\wedge$ or $\vee$ button to
	move the image.

Menu	Description
Cinema	Formats an image to the
Zoom 1	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 $\wedge$ or $\vee$ button to
	move the image.
	<ul> <li>If you enlarge or reduce</li> </ul>
	an image, the image may
	be distorted.

## Using the Keystone Function

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

Because the **Keystone** function may cause inferior screen image quality, use this function only when it is not possible to set up the projector at an optimal angle.



- 1 Press the **Key's** ▲ or **Key's** ▼ button to adjust the picture.
- Keystone can be adjusted from -40 to 40.
- 2 Press the **OK** button when done.

## **Changing input device**

#### To select an external input

Selects external input.

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

Input List Move @ OK					
ÂÛ Î AV	Component	SCREEN SHARE	USB	RGB-PC	HDMI
			Inpu	it Label	Exit

#### Selecting an Input Label

Displays which devices are connected to which input ports.

Input l	Input Label			
eee 	AV	•		
	Component	•		
	RGB-PC	•		►
	HDMI	•		
	Close			

- 1 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.

1 Press the **BLANK** button, and the screen is covered by the background color.

You can change the background color by referring to **Selecting a Blank Image**.

**2** Press any button to clear the blank function.

To cover the screen temporarily, press the **BLANK** button on the remote control.

Do not block the lens with any object while the projector is running. It may become overheated and deformed or even cause a fire.

#### Selecting a Blank Image

- 1 Press the **SETTINGS** button.
- **2** Press the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to select **OPTION 2** and press the **OK** button.
- 3 Press the ∧, ∨ button to select Blank Image and press the OK button.
- 4 Use the ∧ or ∨ button to move to the setting or option you want and press the OK button.

## Using the Quick Menu

You can customize frequently used menus.

- 1 Press the Q.MENU button.
- 2 Press the <or > button to select a menu and press OK.

Menu	Description
Aspect	Resizes the picture.
Ratio	
PJT	Turns the projected image
Mode	upside down or flips it
	horizontally.
Picture	Changes the picture mode.
Mode	
Sound	Sets the sound mode.
Mode	
Sleep	Sets the projector to be
Timer	turned off at the specified
	time.
Clear	Makes the voice from the
Voice II	projector crisp and clear.
Energy	Reduces power
Saving	consumption by adjusting
	peak screen brightness.
USB	Allows you to remove a
Device	connected USB device in a
	safe manner.
	(The menu is displayed
	only when the USB device
	is connected.)

**3** Press the  $\land$ ,  $\lor$  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.

## 

- 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.

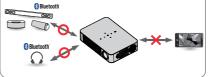
# Setting Up Bluetooth on the Projector

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

 Press the SETTINGS button on the remote control, and then set Bluetooth to On in the WIRELESS menu.

# 

- 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  $\rightarrow$  WIRELESS  $\rightarrow$ 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, no more than 20 will be displayed.)

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



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

Search Device		Search Devi	ce
List Searching		List HBS-700	Search complete
	<b>→</b>		
Stop searching Close		Press OK(®) to connect Re-search	the device. Close

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

## <u>Connecting,</u> <u>Disconnecting, or</u> <u>Deleting Bluetooth</u> <u>Devices in the List of</u> <u>registered devices</u>

In SETTINGS  $\rightarrow$  WIRELESS  $\rightarrow$  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.

List of registered devices		
List		
HBS-700		
Press OK(®) to connect the device.	-	
	Delete	
Delete All	Close	

### 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**  $\rightarrow$  **WIRELESS**  $\rightarrow$  **AV Sync. Adjust** to adjust the synchronization between the video and the Bluetooth headset sound.



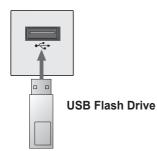
- This feature is only available when a Bluetooth device is connected.
- Audio sync may vary by manufacturer.
- When playing video from a connected USB drive, AV Sync. Adjust can also be adjusted using the Set Audio. menu.

# **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.

# 

- 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 builtin auto recognition program or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- If you use a USB extension cable, the USB device may not be recognized or may not work properly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS file system.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.
- It is recommended to use a USB hub or hard disk drive with power supplied. (If the power supplied is not enough, the USB storage device may not be detected properly.)
- It is recommended that you use USB flash drives of 32 GB or less and USB HDDs of 1 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 transfer 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

Extension	Codec		
.asf,	Video	VC-1 Advanced Profile, VC-1 Simple and Main Profiles	
.wmv	Audio	WMA Standard, WMA 9 Professional	
.divx,	Video	DivX3.11, DivX4, DivX5, DivX6, XVID, H.264/AVC	
.avi	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital	
.mp4, Video H.264 / AVC, MPEG-4 Part 2		H.264 / AVC, MPEG-4 Part 2	
.m4v, .mov	Audio	AAC	
.mkv	Video	H.264 / AVC	
	Audio	HE-AAC, Dolby Digital	
.ts, Video .trp, .tp, .mts, Audio .m2ts		H.264 / AVC, MPEG-2, VC-1	
		MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC	
.vob	Video	MPEG-1, MPEG-2	
.vob	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM	
mpg	Video	MPEG-1	
.mpg	Audio	MPEG-1 Layer I, II	

Maximum: 1920 x 1080 @ 30p (only Motion JPEG 640x480 @ 30p)

### Audio File

File type	Item	Info	
MP3	Bit rate	32 kbps to 320 kbps	
	Sampling rate	32 kHz to 48 kHz	
AC3	Bit rate	32 kbps to 640 kbps	
	Sampling rate	32 kHz, 44.1 kHz, 48 kHz	
MPEG	Bit rate	32 kbps to 448 kbps	
	Sampling rate	32 kHz to 48 kHz	
AAC, HEAAC	Bit rate	24 kbps to 3844 kbps	
	Sampling rate	8 kHz to 96 kHz	
CDDA	Bit rate	1.44 kbps	
	Sampling rate	44.1 kHz	
LPCM	Bit rate	1.41 Mbps to 9.6 Mbps	
	Sampling rate	Multi-channel : 44.1 kHz, 88.2 kHz / 48 kHz, 96 kHz Stereo : 176.4 kHz, 192 kHz	

## 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.

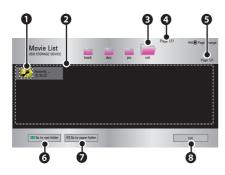
### **Tips for Playing Video Files**

- 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 in the connected device.

- 1 Connect a USB storage device.
- 2 Press the USB button.
- 3 Use the < or > button to select Movie List and press the OK button.
- 4 Use the ∧, ∨, <, or > button to select the file you want and press the OK button.



	Description	
0	Thumbnails	
	Abnormal file	
	File not supported	
0	File List	
ß	Moves to the upper lev	/el folder.
4	Current page/Total no. of folder pages	
6	Current page/Total no. pages	of file
6	Moves to the top level folder.	
0	Moves to the upper level folder.	
8	Exit Movie List.	

**5** Control playback by using the following buttons.



Setting	Description	
	Shows the current playing	
	position. Use $<, >$ buttons	
	to move forward or backward.	
	Stops playing and returns to	
	Movie List.	
	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>* </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.	
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.
- 2 Use the ∧ or ∨ button to move to a desired option and press the OK button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\leq$ , or > button to set up each item.

### Set Video Play.

Setting	Description
Picture	Selects the size of a
Size	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	Allows you to select the
Lan-	language you want for
guage	the file with multiple audio
	tracks. This option is not
	available if the file has only
	one audio track.

Setting	Description
Subtitle Lan- guage	<ul> <li>The subtitle can be turned on or off.</li> <li>Language : One of any of the available languages can be selected.</li> <li>Code Page : A character set used for a subtitle can be selected. By default, the subtitle is displayed in a language configured in OPTION 1 → Language.</li> </ul>
	<ul> <li>Sync : If a subtitle is not synchronized with its video, you can adjust its speed at 0.5 seconds unit.</li> <li>Position : Moves the location of a subtitle.</li> <li>Size : Changes the subtitle font size.</li> </ul>
Repeat	Turns the repeat function On or Off. When it is set to off, the next file can be played sequentially if the file name is similar.

### Subtitle Language

Subtitle		
Lan-	Language	
guage		
Latin1	English, Spanish, French,	
	German, Italian, Swedish,	
	Finnish, Dutch, Portuguese,	
	Danish, Romanian,	
	Norwegian, Albanian,	
	Gaelic, Welsh, Irish,	
	Catalan, Valencian	
Latin2	Bosnian, Polish, Croatian,	
	Czech, Slovak, Slovenian,	
	Serbian, Hungarian	
Latin4	Estonian, Latvian,	
	Lithuanian	
Cyrillic	Bulgarian, Macedonian,	
	Russian, Ukranian, Kazakh	
Greek	Greek	
Turkish	Turkish	
Hebrew	Modern Hebrew	
Chinese	Simplified Chinese	
Korean	Korean	
Arabic	Arabic	

### Set Video.

You can change video settings. (Refer to **PICTURE Settings** on page 56.)

### Set Audio.

You can change audio settings. (Refer to **AUDIO Settings on** page 61.)

### 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.

Registration	
Deregistration	
Close	

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.

- 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.



Select Yes.

## 

What is DRM

[Digital Rights Management]? This is a technology and service that prevents the illegal use of digital contents to protect the benefits and rights of the copyright owner. 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.

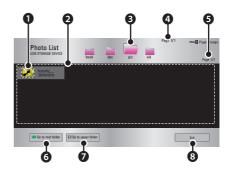
### Supported Photo Files

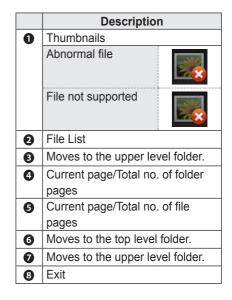
PHOTO (\*.JPEG) Baseline: 64-pixel (width) x 64-pixel (height) - 15360-pixel (width) x 8640-pixel (height) Progressive: 64-pixel (width) x 64-pixel (height) - 1920-pixel (width) x 1440-pixel (height)

- 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 highresolution images in full screen.

### **Browsing Photo List**

- 1 Connect a USB storage device.
- 2 Press the USB button.
- 3 Use the < or > button 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.





Control playback by using the following buttons.



Setting	Description	
	Selects the previous or next	
	photo.	
Slide-	All photos are displayed	
show	during slide show.	
	<ul> <li>Set Slide Speed in the</li> </ul>	
	Option $\rightarrow$ Set Photo	
	View. menu.	
BGM	You can listen to music while	
	viewing photos in full size.	
	• Set <b>BGM</b> in the <b>Option</b> $\rightarrow$	
	Set Photo View. menu.	
U	Rotates photos.	
	<ul> <li>Rotates a photo 90°, 180°, 270°. or 360° clockwise.</li> </ul>	
	<ul> <li>Photos cannot be rotated</li> </ul>	
	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.	
Option	A pop-up window will appear.	

Setting	Description	
Hide	Hides the menu on the full	
	size screen.	
	<ul> <li>To see the menu, press</li> </ul>	
	the OK button on the	
	remote control.	
Exit	Exit from full screen photo	
	view.	

### **Options for Photo List**

- 1 Press the **Q.MENU** button.
- 2 Use the ∧ or ∨ button to move to a desired option and press the OK button.
- **3** Use  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up each item.

### Set Photo View.

Setting	Description
Slide	Selects a slideshow speed.
Speed	
BGM	Selects a music folder for
(Back-	the background music.
ground	You cannot change the
Music)	music folder while the
	background music is
	playing.
	<ul> <li>For background music,</li> </ul>
	only the folder from the
	same device can be
	selected.
	<ul> <li>Repeat : Selects repeat play.</li> </ul>
	- Random : Selects
	random play.

#### Set Video.

You can change video settings. (Refer to **PICTURE Settings** on page 56.)

#### Set Audio.

You can change audio settings. (Refer to **AUDIO Settings** on page 61.)

## Listening to Music

You can play audio files stored on the connected device.

### **Supported Music Files**

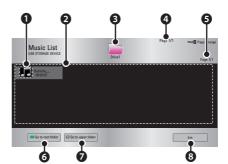
### \*.MP3

Bit rate range 32 Kbps to 320 Kbps

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

### **Browsing Music List**

- 1 Connect a USB storage device.
- 2 Press the USB 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.



	Description
0	Thumbnails
	Abnormal file
	File not supported
0	File List
B	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.
0	Moves to the upper level folder.
8	Exit

5 Control playback by using the following buttons.

Music List USB STORAGE DEVICE	Drive 1	Page 1/1	Max Poge Change Page 1/1
terety			
002 B02.mp3	ea and Option	Hide	02:30 / 03:25

Setting	Description	
	Changes the playing position.	
	Stops playing.	
	Returns to normal playback.	
II	Pauses the media player.	
₩ ₩	Plays the previous/next file.	
eø	Reduces power consumption	
	by adjusting peak screen	
	brightness.	
Option	Sets up the options of Music	
	List.	
Hide	Hides the playback bar.	
	<ul> <li>Press the OK button to</li> </ul>	
	make the playback bar	
	appear.	
Exit	Returns to the Music List	
	screen.	

### **Options for Music List**

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

### Set Audio Play.

Setting		Description
Rep	eat	Selects repeat play.
Ran	dom	Selects random play.

### Set Audio.

You can change audio settings.

(Refer to AUDIO Settings on page 61.)

## **Viewing Files**

You can see document files stored on a connected device.

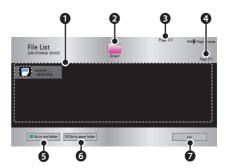
### Supported File Formats

XLS, XLSX, DOC, DOCX, PPT, PPTX, TXT, PDF Microsoft Office 97/2000/2002/2003/2007 version Adobe PDF 1.0/1.1/1.2/1.3/ 1.4 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.



	Description
0	File List
0	Moves to the upper level folder.
8	Current page/Total no. of folder
0	pages
4	Current page/Total no. of file
•	pages
6	Moves to the top level folder.
6	Moves to the upper level folder.
0	Exit

- **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.
  - 1. Press OK.
  - Press the Up/Down/Left/Right buttons to move to Go Page or Zoom.



Setting	Description	
Go	Moves to the page you want.	
Page	Use the Up/Down/Left/Right	
	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.	
	<ul> <li>Press the OK button to</li> </ul>	
	make it appear.	
Exit	Returns to the File Viewer	
	screen.	

### **Options for File List**

- 1 Press the Q.MENU button.
- **2** Use  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up each item.

### Set FileViewer Option

Setting	Description			
Single	•			
0	On	Loads and displays		
Page		pages one by one.		
Loading		The initial loading time		
		is short but a content		
		heavy page may be		
		displayed slowly.		
	Off	Loads all pages of a		
		file to memory before it		
		starts to display them.		
		The initial loading		
		time is long but you		
		can navigate pages		
		quickly after loading is		
		complete.		
	If a file is too large, it			
		may fail to load all the		
		pages.		
Image	You can set the quality of			
Quality	the i	mage included in the		
	document. The following			
	three options are available			
	for the image quality: High,			
	Medium, Low. Higher the			
	image quality, lower the			
	-	ay time.		
Docu-		cts initial document		
ment	align method.			
Align				

File View 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, your eyesight may become worse.
- 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 recognized as real, some viewers may get 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.
- Young people of 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.

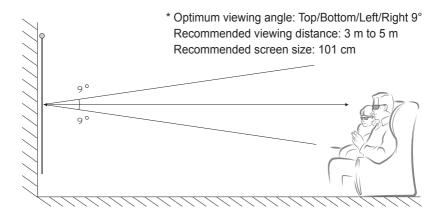
- You may see left and right images overlapped during projector initialization after it is powered on. It may take some time for optimization.
- It may take some time for the 3D image to look normal after you turn your eyes away from the screen and look back at the 3D image.
- It may flicker slightly 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.

1 Please check the minimum system requirements for your computer. Minimum requirements are as follows:

Microsoft<sup>®</sup> Windows<sup>®</sup> XP, Vista 32/64 bit ,Windows 7 32/64 bit Intel<sup>®</sup> Core 2 Duo or AMD Athlon<sup>™</sup> X2 CPU or higher More than 1 GB of system memory (2 GB recommended) Free space of 100 MB or more DirectX 9 or higher Video card should support 120 vertical frequency (Hz).

Recommended video card requirements

- Graphic Processor speed 700 MHz higher
- Memory 512 MB higher
- A laptop equipped with the chipsets above can be used but it may not work properly.

2 Set the video output to XGA 120 Hz and play a video file using a video player that supports 3D output.
 The following video players support 3D output: Stereoscopic Player, nVidia 3D

Vision, and TriDef 3D. For more information on the players above, please visit their websites at:

www.3dtv.at www.nvidia.com

www.tridef.com

## To Use DLP-LINK (DLP-Ready) Type Glasses

- **1** While watching 3D images from the projector, press buttons on the glasses.
- **2** When you press the button, the glasses flicker to be synchronized 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.

### Supported 3D input formats

Input	Signal	Resolution	Vertical Frequency (Hz)	Supported 3D Formats
HDMI	XGA	1024 x 768	120	Frame Sequential / Frame Alternative
RGB-PC	XGA	1024 x 768	120	Frame Sequential / Frame Alternative

- The resolution supporting 3D mode is 1024 x 768 for HDMI and RGB input.
- Some menus may not work in 120 Hz input.

# Watching 3D Images

- 1 Play supported 3D video titles.
- 2 For RGB-PC, you must press AUTO on the remote control before watching 3D.
- **3** Press the **3D** button.
- **4** While watching 3D images from the projector, press buttons on the glasses.
- 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.

# **CUSTOMIZING SETTINGS**

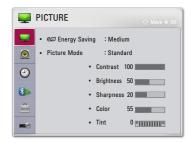
## SETTINGS

- 1 Press the **SETTINGS** button.
- ${\bf 2}$  Use the  $\wedge, \vee, <,$  or > button to select the desired item and press the  ${\bf OK}$  button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\leq$ , 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  $\land$ ,  $\lor$ ,  $\lt$ , or > button to select **PICTURE** and press the **OK** button.
- **3** Use the  $\land$ ,  $\lor$ , <, or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mbox{\scriptsize (s)}$  button.
- 4 Press the EXIT [] button when completed.



The available picture settings are described as follows.

ltem	Description			
Energy	Reduces power consumption by adjusting peak screen brightness.			
Saving	Mode			
	Minimum/	Applies the pre-set Energy Saving mode.		
	Medium/			
	Maximum			
Picture	Selects the pic	cture mode optimized for the viewing environment or the		
Mode	program.			
	You can also o	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.		
	Eco	Displays the optimized images for natural scenery.		
	Cinema	Optimizes the image for a movie.		
	Sport	Optimizes the image for sports by emphasizing primary		
		colors and dynamic actions.		
	Game	Optimizes the image for playing games on fast-moving		
		screens.		
	Expert1/2	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.		

ltem	Description			
Contrast	Adjusts the difference between bright and dark regions of the screen.			
Brightness	Adjusts the overall screen brightness.			
Sharpness		arpness of the borders between bright and dark.		
	Horizontal and	Vertical Sharpness are available only in <b>Expert1/2</b> .		
Color	Adjusts the int	ensity of all colors.		
Tint	Adjusts the ba	lance between red and green levels.		
Advanced	Customizes th	e advanced settings.		
Control	O ata antianal a			
Picture Option	Sets optional s	settings.		
Picture	Boosta values	austomized by the uper		
Reset		customized by the user. node is reset. Select the picture mode you wish to reset.		
Aspect	Resizes the pi	· · ·		
Ratio				
Screen	Adjusts the pic	Adjusts the picture quality of RGB-PC input.		
(RGB-PC)	Option			
	<b>Resolution</b> Available resolutions are 768 resolution (1024 x 768/			
		1280 x 768/ 1360 x 768, 60 Hz) and 1050 resolution		
		(1400 x 1050/ 1680 x 1050, 60 Hz).		
	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 <b>AUTO</b> 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

ltem	Description
Dynamic	Adjusts contrast and colour to the optimal level according to the
Contrast	screen's brightness.
Dynamic	Adjusts colours for more natural-looking colours.
Color	
Color Gamut	Selects the range of colours 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 colour spectrum can be separately set to implement the skin
	colour as defined by the user.
Sky Color	Sky colour is set separately.
Grass Color	Natural colour spectrum (meadows, hills, etc.) can be separately set.
Gamma	Sets the gradation curve according to the output of the picture signal in
	relation to the input signal.

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

### **Expert Control**

Item	Description
Dynamic	Adjusts contrast and colour to the optimal level according to the
Contrast	screen's brightness.
Color Gamut	Selects the range of colours that can be expressed.
	<ul> <li>Standard: Displays the original colors of an input signal regardless of the display features.</li> <li>Wide: Makes use of the display's rich colors.</li> </ul>
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video.
Color Filter	Filters a specific colour spectrum in RGB colours to fine-tune colour saturation and hue accurately.

Item	Description		
Color	In Expert mode, you can customize the options of each mode.		
Temperature	Gamma: Select 1.9, 2.2, or 2.4.		
	a. Method: 2 Points		
	- Pattern: Inner, Outer		
	- Points: Low, High		
	<ul> <li>- Red/Green/Blue: Adjustable range -50 to +50.</li> </ul>		
	- 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 0, 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	Adjusts Red/Green/Blue/Cyan/Magenta/Yellow colors. Allows an		
Management			
System	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/Yellow/Cyan/Magenta,		
	Tint Red/Green/Blue/Yellow/Cyan/Magenta,		
	Luminance Red/Green/Blue/Yellow/Cyan/Magenta:		
	The adjustment range is <b>-30</b> to <b>+30</b> each.		

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

### **Picture Option**

Item	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 <b>Warm</b> , <b>Cool</b> , <b>Medium</b> , or <b>Natural</b> .

: Standard

: Off

AUDIO

Sound Mode

Sound Effect

Auto Volume

٢

 $\Theta$ 

8

# **AUDIO Settings**

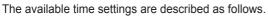
- 1 Press the **SETTINGS** button.
- 2 Use the  $\land, \lor, <$ , or > button to select AUDIO and press the OK button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mbox{\scriptsize (s)}$  button.
- 4 Press the EXIT [] button when completed.

The available sound settings are described as follows.

Item	Description		
Sound Mode	Sets the sound m	iode.	
	Mode		
	Standard	Suitable for all types of video.	
	News/ Music/	Sets audio optimized for a specific genre.	
	Cinema/ Sport/		
	Game		
Sound Effect	The user can sele	ect various sound effects.	
	Mode		
	Clear Voice II	Makes the voice from the projector crisp and clear.	
	Virtual	LG's proprietary audio processing technology	
	Surround	allows 5 channel-like surround sound from two	
		speakers.	
		<ul> <li>When Clear Voice II is set to on, Virtual</li> </ul>	
		Surround cannot be selected.	
	Equalizer	Adjusts the volume to a level of your choice using	
		the Equalizer.	
		<ul> <li>Audio-band (100 Hz/ 300 Hz/ 1 kHz/ 3 kHz/</li> </ul>	
		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.		

# **TIME Settings**

- 1 Press the **SETTINGS** button.
- **2** Use the  $\land$ ,  $\lor$ , <, or > button to select **TIME** and press the **OK** button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mbox{\scriptsize (s)}$  button.
- 4 Press the EXIT [] button when completed.



Item	Description
Sleep Timer	Turns off the Projector after a preset number of minutes.
	To cancel the Sleep Timer, select Off.
Auto Off	If there is no input signal or button press, the projector automatically
	turns off after the preset time has elapsed.
Automatic	Turns off the projector automatically after a set period of time if there is
Standby	no button input on the projector.

TIME

0

 • Sleep Timer

• Automatic Standby : Off

Auto Off

: Off

:60 min.

# **WIRELESS Settings**

- 1 Press the **SETTINGS** button.
- **2** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to select **WIRELESS** and press the **OK** button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\leq$ , or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mathfrak{S}$  button.
- 4 Press the EXIT [] button when completed.



The available wireless settings are described as follows.

Item	Description		
SCREEN	The SCREE	N SHARE displays the screen of the connected device.	
SHARE	<ul> <li>You can check the SCREEN SHARE's ID.</li> </ul>		
	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.	
	Channel	You can change the channel used for wireless connections.  • Search Channels: Select channel searching methods.	
		<ul> <li>Auto: The projector searches for available channels and automatically selects the least used channel.</li> <li>Manual: You can select a channel manually.</li> <li>Channel: This is shown when Search Channels is set to Manual. It allows you to specify a channel number to use.</li> </ul>	
Bluetooth	Sound is output through the Bluetooth headset.		
	First, set Bluetooth to On.		
	Item		
	Search	Search for the device to connect to.	
	Device		
	List of	Connected devices are saved in the List of registered	
	registered	red devices. The saved list of registered devices can be	
	devices	displayed.	
	AV Sync.	When the video and the sound are not synchronized	
	Adjust	correctly, you can manually adjust the synchronization.	

# **OPTION 1 Settings**

- 1 Press the **SETTINGS** button.
- **2** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to select **OPTION 1** and press the **OK** button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mbox{\scriptsize (s)}$  button.
- 4 Press the EXIT [] button when completed.



The available option 1 settings are described as follows.

ltem	Description
Language	Selects a desired Menu Language.
3D Mode	Selects 3D mode.
Auto Input Search	Automatically searches for and displays the input signal type when it is received. It is available only with external inputs (RGB, HDMI, 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.

# **OPTION 2 Settings**

- 1 Press the **SETTINGS** button.
- **2** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to select **OPTION 2** and press the **OK** button.
- **3** Use the  $\land$ ,  $\lor$ ,  $\lt$ , or > button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\mbox{\scriptsize (s)}$  button.
- 4 Press the EXIT [] button when completed.



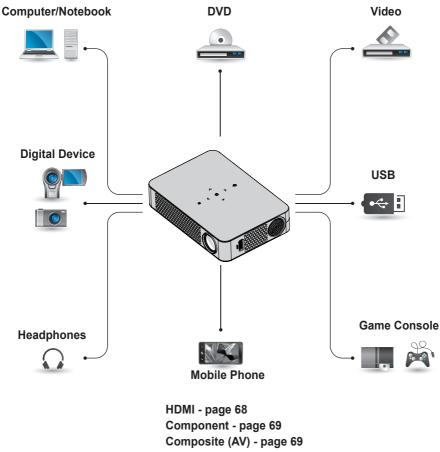
The available option 2 settings are described as follows.

Item		Description
Keystone	To prevent the screen image from becoming trapezoidal, Keystone adjusts the top and bottom width of the image if the projector is not set at a right angle to the screen.	
Auto Keystone	Auto Keystone provides a rectangular screen image by automatically adjusting the Keystone number when there is a trapezoidal screen image caused by tilting of the projector.	
	Item	
	On Automatically adjusts the Keystone number.	
	Off	Manually adjusts the Keystone number.
PJT Mode	<ul> <li>This function turns the projected image upside down or flips horizontal.</li> <li>Select <b>Rear</b> when projecting from the back of the transparent screen purchased separately.</li> <li>Select <b>Front Ceiling</b> when installing the product on the ceiling.</li> <li>When <b>PJT Mode</b> is <b>Rear/ Front Ceiling</b>, the left/right of the speaker changes automatically.</li> </ul>	
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 back	ground for blank Image.

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

# **CONNECTING DEVICES**

You can connect various external devices to the projector.



Composite (AV) - page 69 RGB - page 71 Memory - page 32 Headphone - page 73 Mobile Phone (MHL/Slimport) - page 74

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

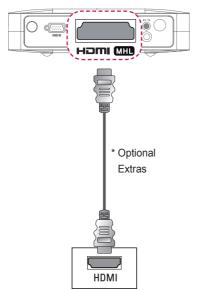
Connect an HD receiver, DVD, VCR player, or External Devices to the projector and select an appropriate input mode.

## **HDMI** Connection

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

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

Press the **INPUT** button on the remote control to select **HDMI**.

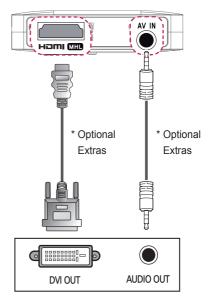


## HDMI to DVI Connection

Using an HDMI to DVI cable, connect the projector's HII (MH) port to the DVI OUT port.

To output audio, use an audio cable for connection.

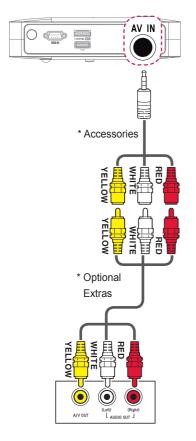
Press the **INPUT** button on the remote control to select **HDMI**.



## **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**.

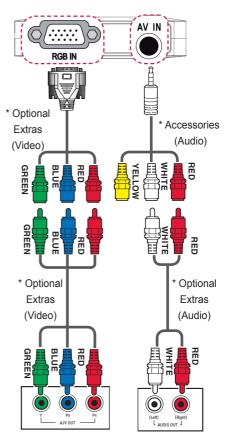
Check whether cables of the same color are connected properly.



## **Component Connection**

You can enjoy a video by connecting the Component port of an external device to the **RGB 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.

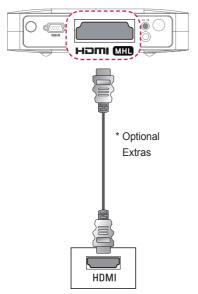


# Connecting a PC

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 with port of the projector to the HDMI output port of your PC. Both video and audio are output at the same time. Press the INPUT button on the remote control to select HDMI.

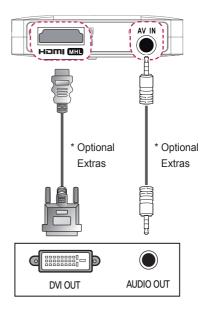


# HDMI to DVI Connection

Using an HDMI to DVI cable, connect the projector's HII (MH) port to the DVI OUT port.

To output audio, use an audio cable for connection.

Press the **INPUT** button on the remote control to select **HDMI**.

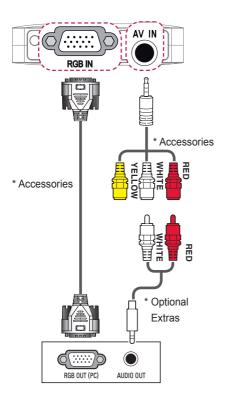


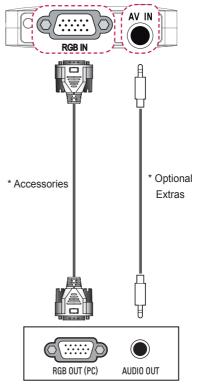
## **RGB** Connection

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.

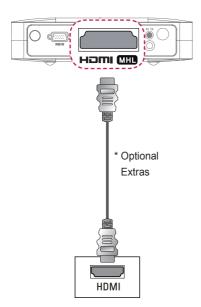
# **Connecting a Laptop**

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.

Press the **INPUT** button on the remote control to select **HDMI**.

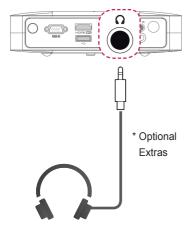


The table below shows examples of switching the output. For more information, refer to the **External Output, Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

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 to Headphones

You can listen to the audio through a headphone.



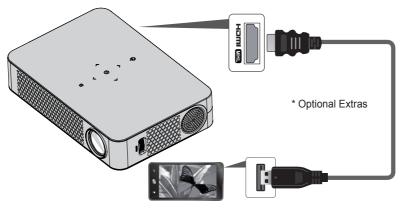
# Using the Mirroring Function of a Mobile Phone

## **MHL/Slimport Connection**

You must use a HDMI adapter to connect your cell phone to the projector and to output images and sound from your cell phone to the projector.

The compatible HDMI adapters are different, depending upon your cell phone type. Therefore, purchase an appropriate MHL or Slimport adapter.

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



# 

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

MODELS	PW700 (PW700-GL)	
Resolution (Pixel)	1280 (Horizontal) × 800 (Vertical)	
Aspect ratio	16:10 (Horizontal:Vertical)	
Panel size (mm)		11.623
Projection distance	$0.00 = t_0 2.05 = (0.25 = c_0 t_0 254.0 = c_0)$	
(Video size)	0.	80 m to 3.25 m (63.5 cm to 254.0 cm)
Ratio of upward		100 %
projection		100 %
Working range of		6 m
the remote control		0111
Video input	NTSC M	/ PAL-B, D, G, H, I / PAL M / PAL N / PAL 60 /
Video input	SECAM	
AC-DC Adaptor	19.0 V, 3.42 A	
Audio Output	1 W + 1 W	
Height (mm)	41.5 (without foot), 44.8 (with foot)	
Width (mm)	171.5	
Depth (mm)	116.8	
Weight (g)	580	
USB Device	5 V, 0.5 A (Max.)	
	Temperature	
	Operation	0 °C to 40 °C
Operation	Storage	-20 °C to 60 °C
environment	<b>Relative Hun</b>	nidity
	Operation	0 % to 80 %
	Storage	0 % to 85 %

\* Use only power supplies listed in the user instructions.

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

### Supported Monitor Display

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 97.551	60.00 119.99
1152 x 864	54.348	60.053
1280 x 800	49.68	60
1360 x 768	47.712	60.015
1280 x 1024	63.981	60.020
1400 x 1050	65.317	59.979
1680 x 1050	65.3	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, 1280x800 is recommended for the best picture quality.

### Supported HDMI/DVI-DTV Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480	31.469	59.94
	31.5	60
720 x 576	31.25	50
1280 x 720	37.5	50
	44.96	59.94
	45	60
1920 x 1080	33.72	59.94
	33.75	60
	28.125	50
	26.97	23.97
	27	24
	33.716	29.976
	33.75	30.00
	56.25	50
	67.43	59.94
	67.5	60

# 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 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.



The model and serial number 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\_\_\_\_\_