



Owner's Manual

# LG Minibeam

DLP Projector

Please read the safety information carefully before using the product.

PW800

[www.lg.com](http://www.lg.com)

# LICENSE

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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.



## 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 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 on hand.



**WARNING/CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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

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

### CAUTION

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

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

## **Power**

### **⚠ WARNING**

- 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.

- Keep the AC adapter, power plug, and the used power outlet clean from dust or foreign materials building up.
  - This may result in fire.
- If there is any smoke or a burning smell from the projector or AC adapter, stop using the product immediately. Disconnect the power cord from the power outlet, and then contact the customer service center.
  - This may result in fire.
- To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.

### **⚠ CAUTION**

- Always grab the plug to remove the AC adapter or power cord.
  - Otherwise, this may result in a fire or may damage the product.
- Refrain from constantly bending the power cord of the AC adapter.
  - If the power cord is bent excessively for a long period of time, the cord may break inside. This may result in a fire or electric shock.
- Ensure the power cord and plug are not damaged, modified, severely bent, twisted, pulled, sandwiched or hot. Do not use the product if the power outlet is loose.
  - This may result in fire or electric shock.
- Keep the power cord away from heating devices.
  - The wire's sheath may melt, which may result in fire or electric shock.
- Place the projector where people will not trip over or step on the power cord to protect the power cord and plug from any damage.
  - This may result in fire or electric shock.

- Do not turn the projector on or off by plugging in the power plug or unplugging it from the power outlet. (Do not use the power plug as a switch.)
  - This may result in electric shock or damage to the product.
- Do not insert a conductor into the other side of the wall outlet while the power plug is inserted into the wall outlet. In addition, do not touch the power plug immediately after it is disconnected from the wall outlet.
  - This may result in electric shock.
- Only use the official power cord provided by LG Electronics. Do not use other power cords.
  - This may result in fire or electric shock.
- If any water or foreign materials have gone into the AC adapter, power cord, or the interior of the projector, turn off the projector by pressing the power button. Remove all the cables, and then contact the customer service center.
  - This may result in fire or electric shock.
- The surface of the AC adapter is hot. Keep the AC adapter out of the reach of children and avoid touching it during use.
- Never disassemble the power supply devices (AC adapter/power cord, etc.).
  - This may damage the power cord and result in a fire or electric shock.
- Connect the AC adapter and the power cord firmly.
  - Not doing so may result in a product failure or fire.

- Do not place heavy objects or put pressure on the power cord and AC adapter and avoid damage.
  - This may result in a fire or may damage the product.
- Always use the AC adapter provided or any AC adapters approved and certified by LG Electronics.
  - Any other AC adapter connected may result in the screen flickering.

## When in Use

### **WARNING**

- Do not place anything containing liquid on top of the projector such as a vase, flower pot, cup, cosmetics, medicine, or ornaments, candles, etc.
  - This may result in fire or electric shock, or cause injury due to falling.
- In the event that there is a heavy impact or the cabinet is damaged, switch it off, unplug it from the power outlet and contact an authorized service center.
  - This may result in electric shock.
- Do not insert pieces of metal such as coins, hairpins, or metal debris, nor flammable materials such as paper or matches into the projector.
  - This is to prevent electric shock or fire.
- Make sure that a child does not swallow the batteries when you replace the old 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., 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, 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).
- 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 high-precision electronic devices or those that transmit weak radio signal.
    - This may affect the operation of the product, causing an accident.
  - Only a qualified technician can disassemble or modify the projector. For diagnosis, adjustment, or repair, contact your seller or our service center.
    - This may result in fire or electric shock.
  - Proper ventilation required, do not block airflow around unit. Doing so can cause injury and internal overheating.
  - To prevent damage to lamp, unit must remain plugged in for approximately 3 minutes after power down to allow for proper cool down (not applicable on LED models).
  - Do not touch the lens; doing so can result in burns or damage to lens. Lens and unit may be HOT during and immediately after use. Use caution when handling unit, allowing for proper cool down.
- Only use a grounded electrical outlet.
  - Do not insert anything into or cover up the exhaust vents.
    - This may result in fire or electric shock.
  - Follow all maintenance guidelines for optimal use; service only at an authorized service center.
  - Lamp contains mercury and as such must be disposed of according to local, state, and federal laws (not applicable on LED models).
  - Keep the batteries and remote out of reach of children.
    - This will prevent personal injury or damage to the product.

**⚠ CAUTION**

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

- Make sure that the battery is installed correctly.
  - This prevent explosion or fire.
- Incorrect battery replacement may cause fire.

**Risk Group 2**

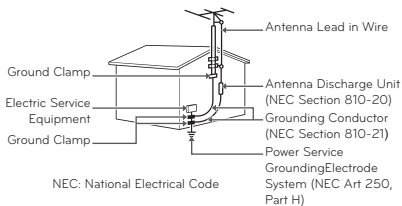
**CAUTION** Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

## ANTENNA

### Outdoor Antenna Grounding

- If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur. Be sure the antenna system is grounded to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

### Antenna grounding according to the National Electrical Code, ANSI/NFPA 70



### For USA

#### NOTE TO CABLE/TV INSTALLER

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

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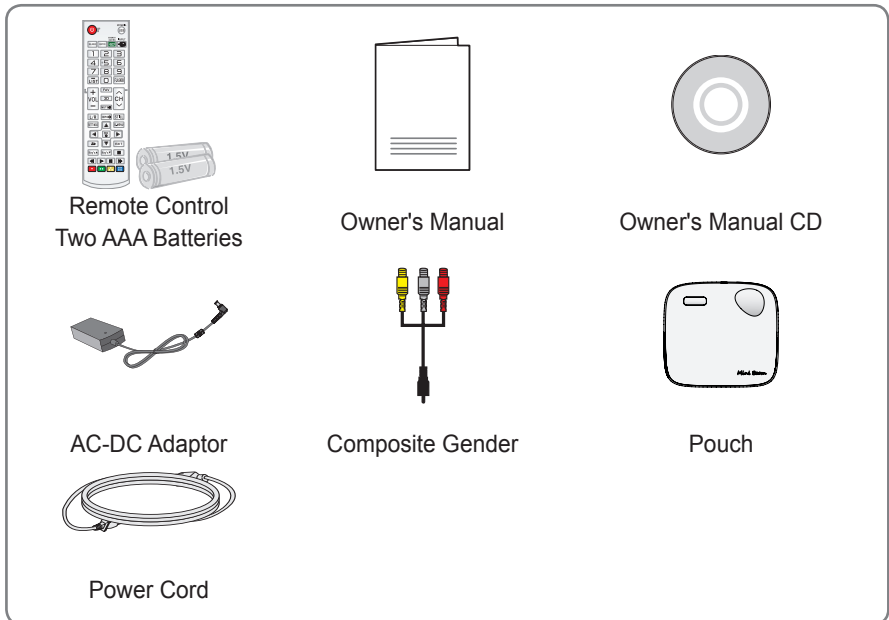
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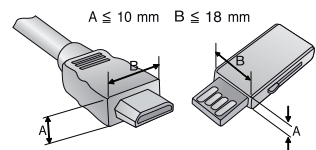
# PREPARATION

## Accessories

Accessories included with the projector 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.

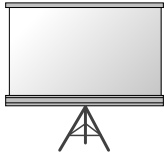


- When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm or less and a height of 10 mm or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.
- 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>/TM Cable
  - High-Speed HDMI<sup>®</sup>/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.



Projection Screen



Tripod



HDMI Cable



Video Cable



Audio Cable



3D glasses  
(DLP-LINK or DLP-Ready Type)



RGB to Component cable



Component Cable



MHL or Slimport cable



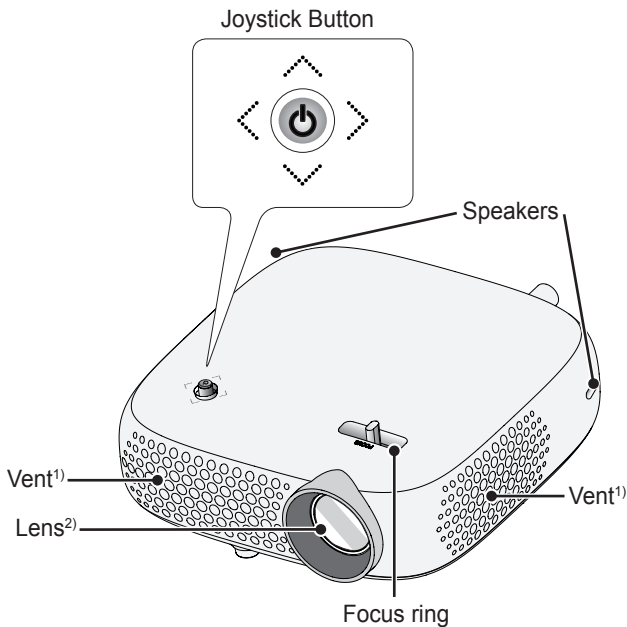
Computer Cable



RF Cable

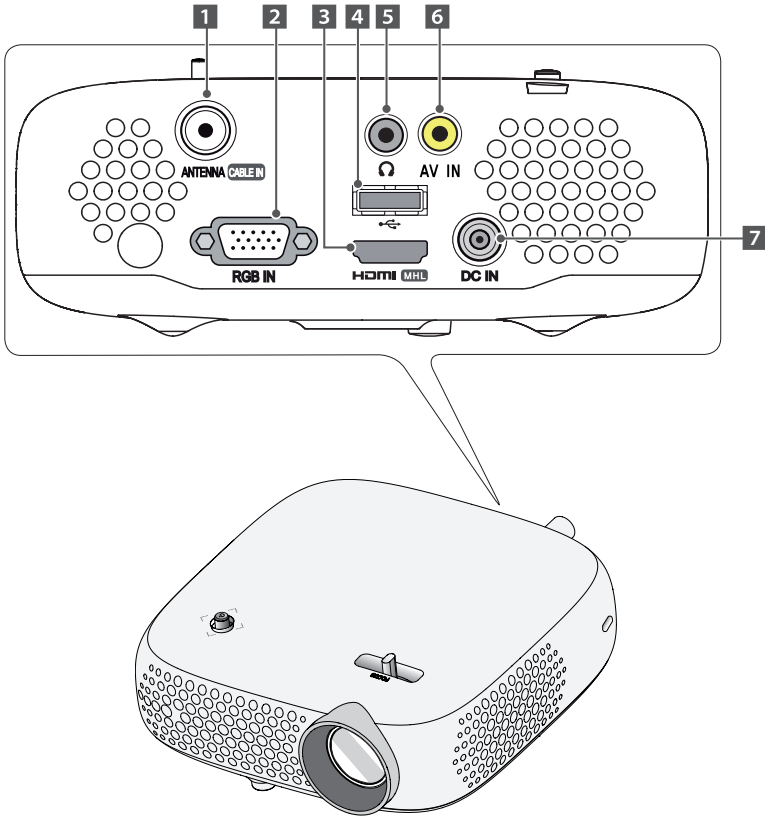
## Parts and Components

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.



- 1) Due to the high temperature of the 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.









- 1** ANTENNA CABLE IN Port
- 2** RGB IN Port
- 3** HDMI MHL Port
- 4** USB Port

- 5** Ω (Headphone Port)
- 6** AV IN Port
- 7** 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

	<b>Power On</b>	When the projector is turned off, place your finger on the joystick button, press it once, and release it.
	<b>Power Off</b>	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>Volume Control</b>	If you place your finger over the joystick button and move it left or right, you can adjust the volume level.
	<b>Channels Control</b>	If you place your finger over the joystick button and move it up or down, you can scroll through the saved channels.



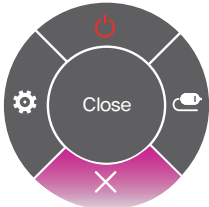




#### NOTE

- When your finger over the joystick button and move it up, down, left, or right, be careful not to press the joystick button. If you press the joystick button first, you may not be able to adjust the volume level and/or scroll through saved channels.

### Adjusting the Menu

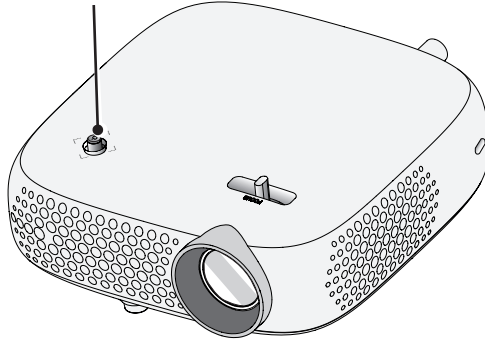
When the projector is turned on, press the joystick button one time.

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.

		<b>Projector off</b>	Turns the power off.
		<b>Input List</b>	Changes the input source.
		<b>Close</b>	Clears on-screen displays and returns to projector viewing.
		<b>Settings</b>	Displays the Settings menu.

## Projector Status Indicators

LED Power Indicator

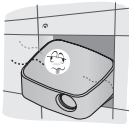


LED Power Indicator	
Red	Power standby state
Off	The projector is operating with the power on.

# Installation

## Installation Precautions

- Place the projector in a well-ventilated environment.
- To prevent internal heat build-up, install the projector in a well-ventilated 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.

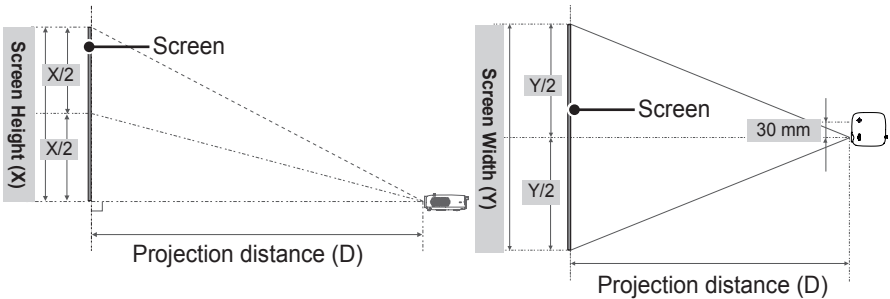


- Do not place the projector in a hot or humid environment.
  - Do not place the projector in a hot, cold, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
  - This may result in fire.
- Never open any cover on the projector. There is a high risk of electric 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 31.)
- 4 Connect the power cord of the projector and the connected device to the wall outlet.

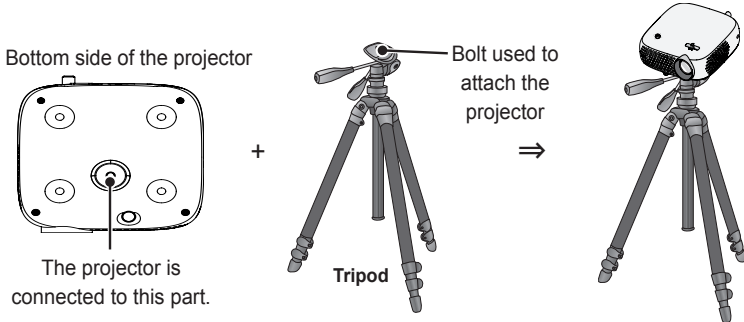
Ratio of upward projection: 100 %



16:10 Ratio			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (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.)

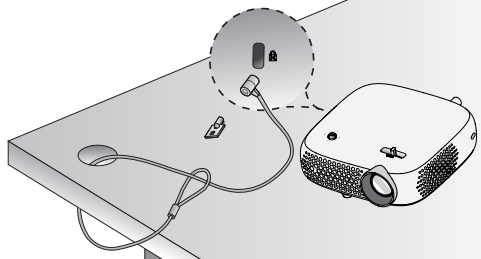


### CAUTION

- 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.

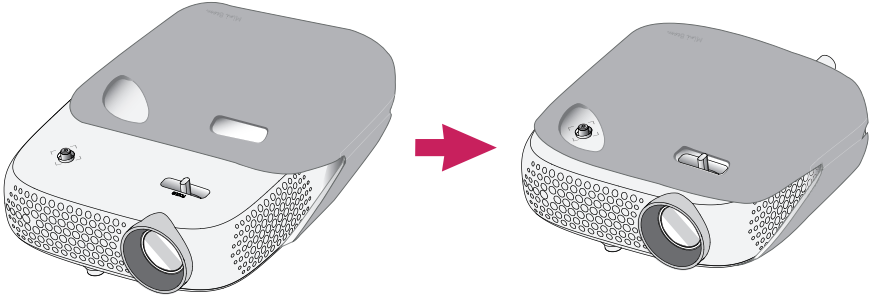
## Kensington Security System

- This projector has a Kensington Security Standard connector. 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>



## Caution when Using Pouch

The purpose of the pouch provided is to protect the exterior of the product. Please insert the back of the product first into the pouch as illustrated.

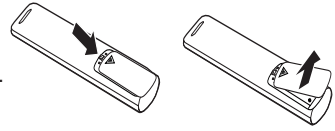


### NOTE

- When using the product with the pouch on for a long period of time, the parts exposed to direct sunlight may change colors.
- When using the product with the pouch on, the built-in speakers may sound low in volume.

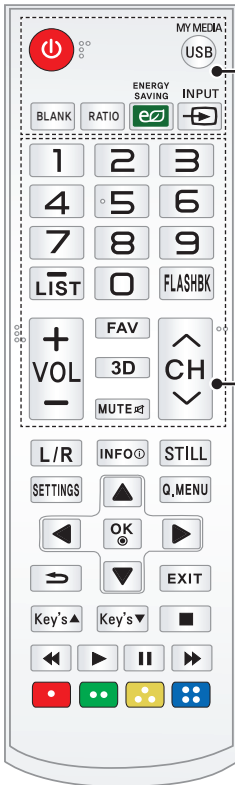
# REMOTE CONTROL

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



## CAUTION

- Do not mix new batteries with old ones.



### POWER

Turns the projector on or off.

### USB/MY MEDIA

Accesses USB mode.

### BLANK

Blanks the screen.

### RATIO

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

### ENERGY SAVING

Reduces power consumption by adjusting peak screen brightness.

### INPUT

Changes the input source.

### Number buttons

Enters a number.

### - (dash)

Enters a channel number, such as 2-1 or 2-2.

### LIST

Displays the channel list.

### FLASHBK

Displays the channel you were watching previously.

### VOL +, -

Adjusts the volume level.

### FAV

Shows favorite channels.

### 3D

Shows 3D images.

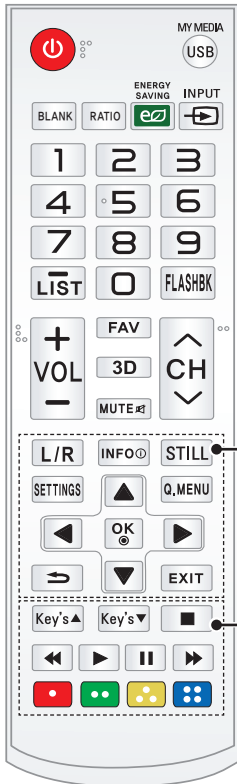
### MUTE $\text{M}$

Mutes the sound of the projector.

### CH $\wedge$ , $\vee$

Changes the TV channel.





**L/R**

Switches left and right in 3D mode.

**INFO** ⓘ

Displays the information of a program or screen.

**STILL**

Freezes the moving image.

(Available in any mode other than USB mode.)

**SETTINGS**

Displays or closes the Settings menu.

**Q.MENU**

Allows you to change the settings easily.

**Up/Down/Left/Right buttons**

Sets the function or moves the cursor.

**OK** Ⓞ

Shows the current mode and saves changes to the settings.

**↶**

Returns to the previous screen.

**EXIT**

Exits the menu.

**Key's ▲, ▼**

Adjusts the Keystone function.

**Playback control buttons**

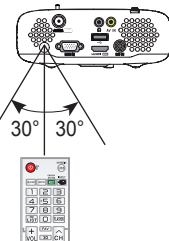
Controls playback of MY MEDIA.

**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.

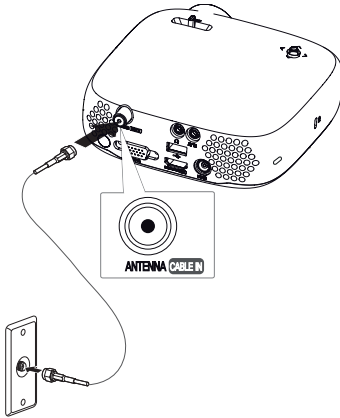


# USING THE PROJECTOR

## Connecting to an Antenna or Cable

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

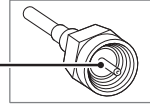
You can watch terrestrial or cable (analog or digital) TV.  
(The RF cable is sold separately.)



### ! NOTE

- Make sure not to bend the copper wire of the RF cable (75  $\Omega$ ). Turn the input jack to the right to fasten it.

Copper wire



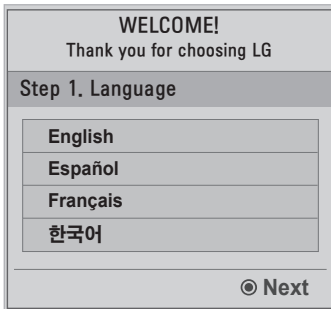
- Ensure you use a standard coaxial cable (75  $\Omega$ , sold separately) when connecting to the projector input.
- For better image quality in locations where signal strength is low, purchase and install a signal amplifier (booster).
- A signal splitter is required if you want to use two or more projectors through one antenna.
- If you have any problems when installing the antenna, please consult a suitable retailer or the store where you purchased the antenna.

# Watching Projector

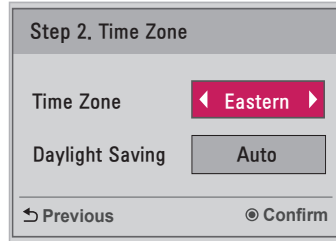
## Turning on the Projector

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.

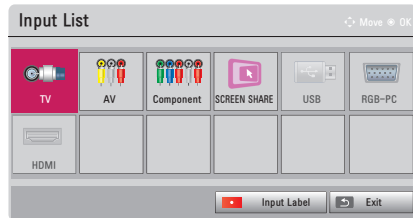
- 1 Connect the power cord correctly.
- 2 After waiting for a moment, press the **POWER** button on the remote control or the joystick button.
- 3 In the Language Selection screen, select a language.



- 4 In the **Time Zone** screen, select **Time Zone** region and **Daylight Saving** option.



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

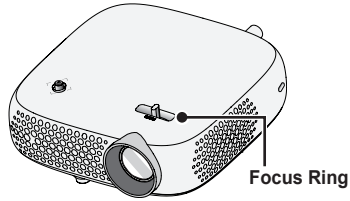


## Focus of the Screen Image

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


Adjust the focus of the image by rotating the Focus Ring to the left or right.

Make sure the product does not move when adjusting the focus.



## 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
<b>CH</b> ^, v	Changes the TV channel.
<b>LIST</b>	Displays the channel list.
<b>Number buttons</b>	Enters a number.
<b>VOL</b> +, -	Adjusts the volume level.
<b>MUTE</b> 	Mutes all sounds.
<b>Q.MENU</b>	Accesses the quick menu. (See page 33.)
<b>FLASHBK</b>	Displays the channel you were watching previously.

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

## To Set Channel

Image shown may differ from your projector.

### Memorizing the Available Channels

#### Using the Auto Tuning function

Saves a channel which is currently broadcasting. Be sure to activate Auto Tuning when you move to a new home or change the position of your projector. When you activate this function, make sure that the antenna is connected and there are channels broadcasting signals.

- 1 Press the **SETTINGS** button.
- 2 Press the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **CHANNEL** and press the **OK** button.
- 3 Press the  $\wedge$ ,  $\vee$  button to select **Auto Tuning** and press the **OK** button.
- 4 Select **Start** to start automatic tuning. The projector scans and saves available channels automatically.
- 5 When you are finished, press **EXIT**.

#### Memorizing or Deleting Channels

##### Manually

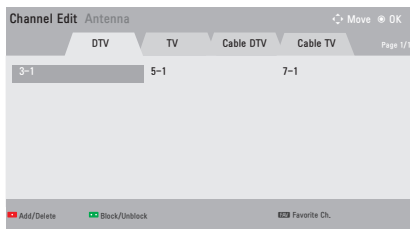
- 1 Press the **SETTINGS** button.
- 2 Press the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **CHANNEL** and press the **OK** button.
- 3 Press the  $\wedge$  or  $\vee$  button to select **Manual Tuning** and press the **OK** button.
- 4 Scroll through the channel types, and then add or delete channels.
- 5 When you are finished, press **EXIT**.

##### **NOTE**

- If **Lock System** is turned on, a pop-up window will appear asking for password.
- You can store up to 1000 Channels. The number of channels that you can store differs depending on the broadcasting signal environment.
- **Auto Tuning** memorizes the Channels that are currently being broadcast.
- The channels are stored in the order of DTV, TV, Cable DTV, and Cable TV.

## Editing Your Channel List

- 1 Press the **SETTINGS** button.
- 2 Press the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **CHANNEL** and press the **OK** button.
- 3 Press the  $\wedge$  or  $\vee$  button to select **Channel Edit** and press the **OK** button.
- 4 Edit channels using the following buttons.

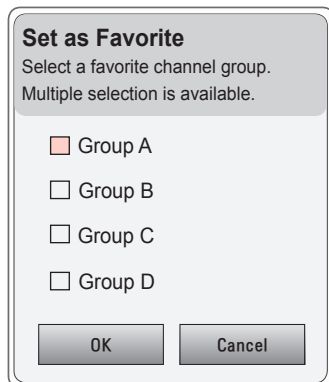


Button	Description
<b>Red</b>	Adds or deletes a channel.
<b>Green</b>	Block or unblock a channel.
<b>FAV</b>	Adds a favorite channel.

- 5 When you are finished, press **EXIT**.

## Favorite Channel Setup

- 1 Press the **SETTINGS** button.
- 2 Press the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **CHANNEL** and press the **OK** button.
- 3 Press the  $\wedge$  or  $\vee$  button to select **Channel Edit** and press the **OK** button.
- 4 Move to your desired channel.
- 5 Press **FAV** to access the **Set as Favorite**.
- 6 Press the  $\wedge$  or  $\vee$  buttons to scrolls through channel group.
- 7 Press the **OK** button.



## Additional Options

### Adjusting Aspect Ratio

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

**NOTE**

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

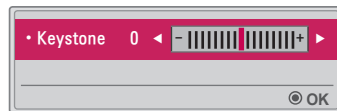
Menu	Description
<b>16:9</b>	Resizes images to the 16:9 ratio.
<b>Full</b>	Changes to the full screen regardless of the aspect ratio.
<b>Just Scan</b>	Displays video images in the original size without removing parts of the edge of the image. <ul style="list-style-type: none"> <li>• If you select <b>Just Scan</b>, you may see image noises at the edge or edges of the screen.</li> </ul>
<b>Set By Program</b>	Displays images in the same aspect ratio as the original image.
<b>4:3</b>	Resizes images to the previous standard 4:3.
<b>Zoom</b>	Resizes the image to fit the screen width. The top and bottom parts of the image may be cut off. Press the < or > button to zoom in or out of the image. Press the ^ or v button to move the image.

Menu	Description
<b>Cinema Zoom 1</b>	Formats an image to the cinemascope ratio, 2.35:1. It ranges from 1 to 16. Press the < or > button to zoom in or out of the image. Press the ^ or v button to move the image. <ul style="list-style-type: none"> <li>• If you enlarge or reduce an image, the image may be distorted.</li> </ul>

### 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.



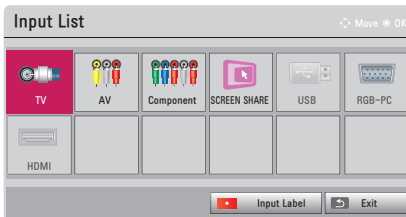
- 1 Press the **Key's ▲** or **Key's ▼** button to adjust the picture.
  - **Keystone** can be adjusted from **-40** to **40**.
- 2 Press the **OK** button when done.

## Changing Input Device

### To select an external input

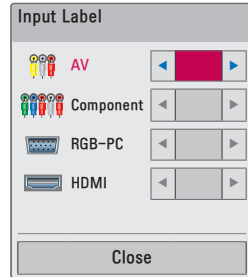
Selects external input.

- Press the **INPUT** button on the remote control to display the input selection screen.
  - Connected inputs are displayed first. However, **TV / 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  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to switch between all the input modes.



### Selecting an Input Label

Displays which devices are connected to which input ports.



- 1 Press the **INPUT** button on the remote control to display the input selection screen.
- 2 Press the **red** button.
- 3 Use the  $\wedge$  or  $\vee$  button to scroll to one of the input sources.
- 4 Use the  $\lt$  or  $\gt$  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  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **OPTION 2** and press the **OK** button.
- 3 Press the  $\wedge$ ,  $\vee$  button to select **Blank Image** and press the **OK** button.
- 4 Use the  $\wedge$  or  $\vee$  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  $\lt$  or  $\gt$  button to select a menu and press **OK**.

Menu	Description
<b>Aspect Ratio</b>	Resizes the picture.
<b>PJT Mode</b>	Turns the projected image upside down or flips it horizontally.
<b>Picture Mode</b>	Changes the picture mode.
<b>Multi Audio</b>	Sets <b>MONO</b> or <b>STEREO</b> , or a language for a bilingual broadcast (Digital signal).
<b>SAP</b>	Changes the MTS sound (Analog signal).
<b>Sleep Timer</b>	Sets the projector to be turned off at the specified time.
<b>Clear Voice II</b>	Makes the voice from the projector crisp and clear.
<b>Del/Add</b>	Can delete or add channels.
<b>USB Device</b>	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

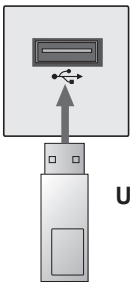
- Windows 7 / 8 / 8.1 are compatible with SCREEN SHARE. However, other versions of Windows, and some other operating systems, may not be compatible with SCREEN SHARE.
- Ice Cream Sandwich, Jellybean, and KitKat versions of LG's Android devices are guaranteed to be compatible.
- When connecting via SCREEN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

# 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.



**USB Flash Drive**

### Removing a USB Device

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

#### **NOTE**

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

**Tips for Using a USB Device**

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

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

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

## Audio File

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

## **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**

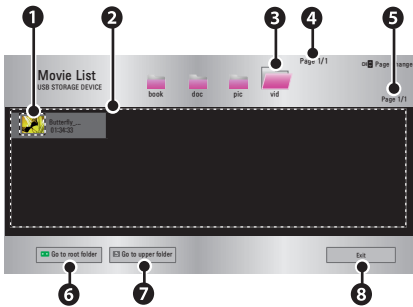
- Some subtitles created by users may not work properly.
- The video and subtitle files should be placed in the same folder. For subtitles to display correctly, the video and subtitle files must have the same name.
- We do not support any stream that contains GMC (Global Motion Compensation) or Qpel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

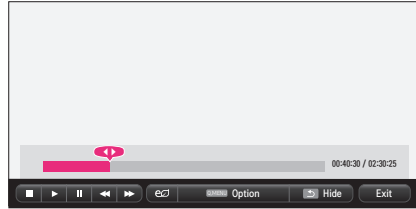
Play a video file stored in the connected device.

- 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 ^, v, <, or > button to select the file you want and press the **OK** button.



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

- 5 Control playback by using the following buttons.



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

**Options for Movie List**

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

**Set Video Play.**

Setting	Description
<b>Picture Size</b>	<p>Selects the size of a playback screen.</p> <ul style="list-style-type: none"> <li>• <b>Full</b> : Files are played in full screen mode according to the aspect ratio of video.</li> <li>• <b>Original</b> : Displays the video in the original size.</li> </ul>
<b>Audio Language</b>	<p>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.</p>

Setting	Description
<b>Subtitle Language</b>	<p>The subtitle can be turned on or off.</p> <ul style="list-style-type: none"> <li>• <b>Language</b> : One of any of the available languages can be selected.</li> <li>• <b>Code Page</b> : A character set used for a subtitle can be selected.</li> </ul> <p>By default, the subtitle is displayed in a language configured in <b>OPTION 1</b> → <b>Language</b>.</p> <ul style="list-style-type: none"> <li>- <b>Sync</b> : If a subtitle is not synchronized with its video, you can adjust its speed at 0.5 seconds unit.</li> <li>- <b>Position</b> : Moves the location of a subtitle.</li> <li>- <b>Size</b> : Changes the subtitle font size.</li> </ul>
<b>Repeat</b>	<p>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.</p>

## Subtitle Language

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

### Set Video.

You can change video settings.  
(Refer to **PICTURE Settings** on page 59.)

### Set Audio.

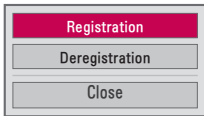
You can change audio settings.  
(Refer to **AUDIO Settings** on page 64.)

**Registering the DivX code**

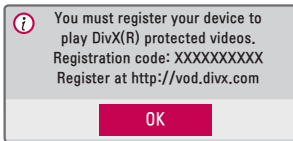
Checks DivX Reg. Code for replaying DivX protected videos. Register at <http://vod.divx.com>.

Use Reg. Code to rent or purchase movies at [www.divx.com/vod](http://www.divx.com/vod).

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



- 2 Press the  $\wedge$  or  $\vee$  button to move to **Registration** and press the **OK** button.



- 3 Check the DivX **Registration code**.

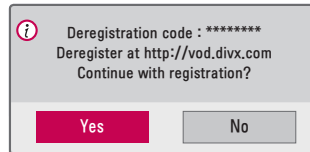
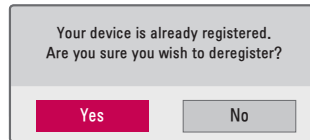
**NOTE**

- 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  $\wedge$  or  $\vee$  button to go to **Deregistration** and press the **OK** button.



- 3 Select **Yes**.

**NOTE**

- 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)

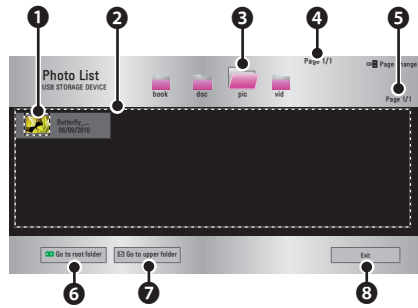
Baseline: 64-pixel (width) x 64-pixel (height) - 15360-pixel (width) x 8640-pixel (height)



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 high-resolution 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 ^, v, <, or > button to select the file you want and press the **OK** button.



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

## 5 Control playback by using the following buttons.



Setting	Description
<b>Hide</b>	Hides the menu on the full size screen. <ul style="list-style-type: none"> <li>To see the menu, press the <b>OK</b> button on the remote control.</li> </ul>
<b>Exit</b>	Exit from full screen photo view.

Setting	Description
	Selects the previous or next photo.
<b>Slide-show</b>	All photos are displayed during slide show. <ul style="list-style-type: none"> <li>Set <b>Slide Speed</b> in the <b>Option</b> → <b>Set Photo View.</b> menu.</li> </ul>
<b>BGM</b>	You can listen to music while viewing photos in full size. <ul style="list-style-type: none"> <li>Set <b>BGM</b> in the <b>Option</b> → <b>Set Photo View.</b> menu.</li> </ul>
	Rotates photos. <ul style="list-style-type: none"> <li>Rotates a photo 90°, 180°, 270°, or 360° clockwise.</li> <li>Photos cannot be rotated if their width is greater than the height of the max. supported resolution.</li> </ul>
	Views the photo in full mode or original mode. Press the <b>blue</b> button to enlarge the image.
	Reduces power consumption by adjusting peak screen brightness.
<b>Option</b>	A pop-up window will appear.

## Options for Photo 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  $\wedge$ ,  $\vee$ ,  $<$ , or  $>$  button to set up each item.

### Set Photo View.

Setting	Description
<b>Slide Speed</b>	Selects a slideshow speed.
<b>BGM</b>	<p>Selects a music folder for the background music.</p> <ul style="list-style-type: none"> <li>• You cannot change the music folder while the background music is playing.</li> <li>• For background music, only the folder from the same device can be selected.</li> </ul> <p>- <b>Repeat</b> : Selects repeat play.</p> <p>- <b>Random</b> : Selects random play.</p>

### Set Video.

You can change video settings.  
(Refer to **PICTURE Settings** on page 59.)

### Set Audio.

You can change audio settings.  
(Refer to **AUDIO Settings** on page 64.)

## Listening to Music

You can play audio files stored on the connected device.

### Supported Music Files

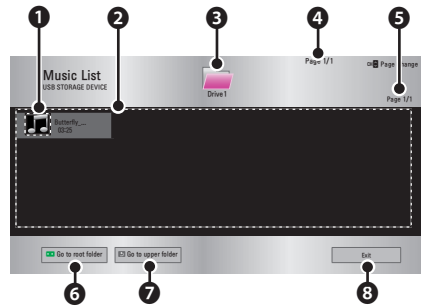
\*.MP3

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

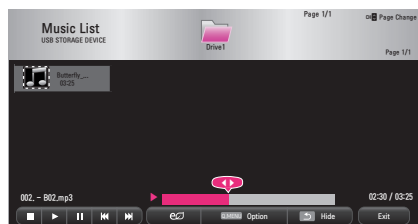
- 1 Connect a USB storage device.
- 2 Press the **USB** button.
- 3 Use the **<** or **>** button to select **Music List** and press the **OK** button.
- 4 Use the **^**, **v**, **<**, or **>** button to select the file you want and press the **OK** button.



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



- 5 Control playback by using the following buttons.



Setting	Description
◀▶	Changes the playing position.
■	Stops playing.
▶	Returns to normal playback.
	Pauses the media player.
⏮ ⏭	Plays the previous/next file.
eO	Reduces power consumption by adjusting peak screen brightness.
<b>Option</b>	Sets up the options of Music List.
<b>Hide</b>	Hides the playback bar. <ul style="list-style-type: none"> <li>Press the <b>OK</b> button to make the playback bar appear.</li> </ul>
<b>Exit</b>	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  $\wedge$ ,  $\vee$ ,  $\leftarrow$ , or  $\rightarrow$  button to set up each item.

### Set Audio Play.

Setting	Description
<b>Repeat</b>	Selects repeat play.
<b>Random</b>	Selects random play.

### Set Audio.

You can change audio settings.  
(Refer to **AUDIO Settings** on page 64.)

## Viewing Files

You can see document files stored on a connected device.

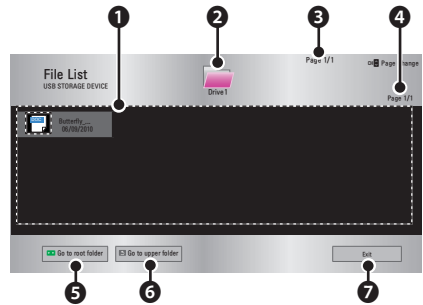
### Supported File Formats

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

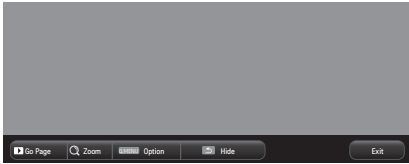
- 1 Connect a USB storage device.
- 2 Press the **USB** button.
- 3 Use the < or > button to select **File List** and press the **OK** button.
- 4 Use the ^, v, <, or > button to select the file you want and press the **OK** button.



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

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



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

### Options for File List

- 1** Press the **Q.MENU** button.
- 2** Use **^, v, <, >** button to set up each item.

### Set FileViewer Option

Setting	Description
<b>Single Page Loading</b>	<b>On</b> Loads and displays pages one by one. The initial loading time is short but a content heavy page may be displayed slowly.
	<b>Off</b> 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.
<b>Image Quality</b>	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.
<b>Document Align</b>	Selects initial document align method.

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**

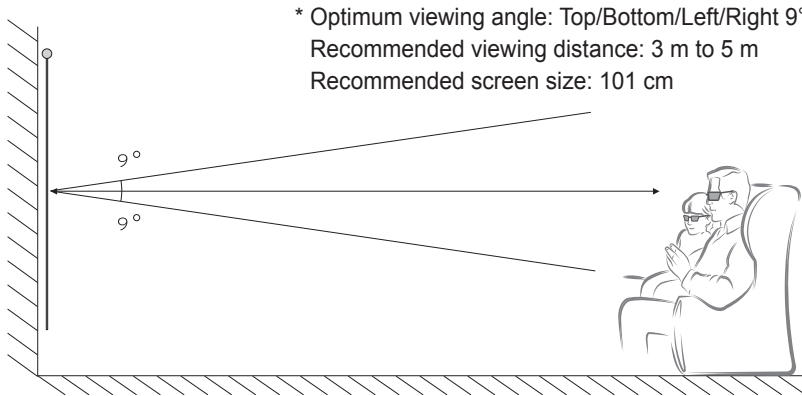
- Prevent children of 5 years or younger from watching a 3D video. It may impair the development of their eyes.
- Children 10 years old or younger are still developing their eyesight and may have an excessive tendency to touch or jump at the screen. Adult guidance and supervision is recommended.
- Since 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® Windows® XP, Vista 32/64 bit ,Windows 7 32/64 bit

Intel® Core 2 Duo or AMD Athlon™ 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](http://www.3dtv.at)

[www.nvidia.com](http://www.nvidia.com)

[www.tridef.com](http://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 In order to watch 3D images in **RGB-PC** mode, you must go to **SETTINGS** → **PICTURE** → **Screen (RGB-PC)** and run **Auto Config.**
- 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

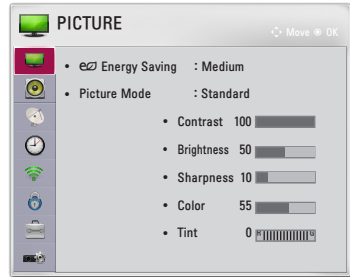
## SETTINGS

- 1** Press the **SETTINGS** button.
- 2** Use the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select the desired item and press the **OK** button.
- 3** Use the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to set up the desired item and press the **OK** button.
- 4** Press the **EXIT** button when completed.

Menu	Description
<b>PICTURE</b>	Adjusts the image quality for optimal viewing.
<b>AUDIO</b>	Adjusts the sound quality and volume level.
<b>CHANNEL</b>	Sets up and edits a channel.
<b>TIME</b>	Sets the time and time-related features.
<b>WIRELESS</b>	Wireless-related features.
<b>LOCK</b>	Locks or unlocks a channels or a programs.
<b>OPTION 1</b>	Customizes the general settings.
<b>OPTION 2</b>	Customizes the settings related the projector.
<b>INPUT</b>	Selects the desired input source.
<b>MY MEDIA</b>	Accesses photo, music, movie, and document files.

# PICTURE Settings

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



The available picture settings are described as follows.

Item	Description
<b>Energy Saving</b>	Reduces power consumption by adjusting peak screen brightness.
	<b>Mode</b>
	<b>Minimum/ Medium/ Maximum</b> Applies the pre-set <b>Energy Saving</b> mode.
<b>Picture Mode</b>	Selects the picture mode optimized for the viewing environment or the program. You can also customize advanced options for each mode.
	<b>Mode</b>
	<b>Vivid</b> Maximizes the visual effect of video. Heightens contrast, brightness and sharpness to display vivid images.
	<b>Standard</b> Displays images in standard levels of contrast, brightness and sharpness.
	<b>Cinema</b> Optimizes the image for a movie.
	<b>Sport</b> Optimizes the image for sports by emphasizing primary colors and dynamic actions.
	<b>Game</b> Optimizes the image for playing games on fast-moving screens.
	<b>Expert1/2</b> Menu for adjusting picture quality that allows experts and amateurs to enjoy the best Projector viewing. - <b>Expert</b> mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.
<b>Contrast</b>	Adjusts the difference between bright and dark regions of the screen.

Item	Description
<b>Brightness</b>	Adjusts the overall screen brightness.
<b>Sharpness</b>	Adjusts the sharpness of the borders between bright and dark. Horizontal and Vertical Sharpness are available only in <b>Expert1/2</b> .
<b>Color</b>	Adjusts the intensity of all colors.
<b>Tint</b>	Adjusts the balance between red and green levels.
<b>Advanced Control</b>	Customizes the advanced settings.
<b>Picture Option</b>	Sets optional settings.
<b>Picture Reset</b>	Resets values customized by the user. Each picture mode is reset. Select the picture mode you wish to reset.
<b>Aspect Ratio</b>	Resizes the picture.
<b>Screen (RGB-PC)</b>	Adjusts the picture quality of RGB-PC input.
	<b>Option</b>
	<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).
	<b>Auto Config.</b> 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.
	<b>Position</b> Moves the image up/down/left/right.
	<b>Size</b> Changes the screen size.
	<b>Phase</b> Makes the picture look clear by removing horizontal noise.
<b>Reset</b> Restores all the settings to the factory default.	

### Advanced Control

Item	Description
<b>Dynamic Contrast</b>	Adjusts contrast and color to the optimal level according to the screen's brightness.
<b>Dynamic Color</b>	Adjusts colors for more natural-looking colors.
<b>Color Gamut</b>	Selects the range of colors that can be expressed. <ul style="list-style-type: none"> <li>• <b>Standard:</b> Displays the original colors of an input signal regardless of the display features.</li> <li>• <b>Wide:</b> Makes use of the display's rich colors.</li> </ul>
<b>Skin Color</b>	Skin color spectrum can be separately set to implement the skin color as defined by the user.
<b>Sky Color</b>	Sky color is set separately.
<b>Grass Color</b>	Natural color spectrum (meadows, hills, etc.) can be separately set.
<b>Gamma</b>	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
<b>Dynamic Contrast</b>	Adjusts contrast and color to the optimal level according to the screen's brightness.
<b>Color Gamut</b>	Selects the range of colors that can be expressed. <ul style="list-style-type: none"> <li>• <b>Standard:</b> Displays the original colors of an input signal regardless of the display features.</li> <li>• <b>Wide:</b> Makes use of the display's rich colors.</li> </ul>
<b>Edge Enhancer</b>	Shows clearer and distinctive yet natural edges of the video.
<b>Expert Pattern</b>	Patterns used for expert adjustment.
<b>Color Filter</b>	Filters a specific color spectrum in RGB colors to fine-tune color saturation and hue accurately.

Item	Description
<b>Color Temperature</b>	<p>In <b>Expert</b> mode, you can customize the options of each mode.</p> <p><b>Gamma:</b> Select <b>1.9, 2.2, or 2.4.</b></p> <p><b>a. Method: 2 Points</b></p> <ul style="list-style-type: none"> <li>- <b>Pattern:</b> Inner, Outer</li> <li>- <b>Points:</b> Low, High</li> <li>- <b>Red/Green/Blue:</b> Adjustable range <b>-50 to +50.</b></li> <li>- <b>Apply to all inputs:</b> The values of the <b>Color Temperature</b> is applied to all the input modes.</li> </ul> <p><b>b. Method: 20 Point IRE</b></p> <ul style="list-style-type: none"> <li>- <b>Pattern:</b> Inner, Outer</li> <li>- <b>IRE</b> (Institute of Radio Engineers) is the unit indicating the size of a video signal and can be set to <b>0, 5, 10, 15, ... 100.</b> You can fine-tune for each setting as shown below.</li> <li>- <b>Luminance:</b> The adjustment range is <b>50 to 500.</b></li> <li>- <b>Red/Green/Blue:</b> The adjustment range is <b>-50 to +50.</b></li> <li>- <b>Apply to all inputs:</b> The values of the <b>Color Temperature</b> is applied to all the input modes.</li> </ul>
<b>Color Management System</b>	<p>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.</p> <ul style="list-style-type: none"> <li>- <b>Saturation Red/Green/Blue/Yellow/Cyan/Magenta,</b></li> <li><b>Tint Red/Green/Blue/Yellow/Cyan/Magenta,</b></li> <li><b>Luminance Red/Green/Blue/Yellow/Cyan/Magenta:</b></li> </ul> <p>The adjustment range is <b>-30 to +30</b> each.</p>

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

**Picture Option**

Item	Description
<b>Noise Reduction</b>	Reduces screen noise in the video.
<b>MPEG Noise Reduction</b>	Eliminates noise generated while creating digital picture signals.
<b>Black Level</b>	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.
<b>Real Cinema</b>	Optimizes the screen for movie viewing.
<b>Color Temperature</b>	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> .

## AUDIO Settings

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



The available sound settings are described as follows.

Item	Description			
<b>Sound Mode</b>	Sets the sound mode.			
	<b>Mode</b>			
	<table border="0"> <tr> <td><b>Standard</b></td> <td>Suitable for all types of video.</td> </tr> <tr> <td><b>News/ Music/ Cinema/ Sport/ Game</b></td> <td>Sets audio optimized for a specific genre.</td> </tr> </table>	<b>Standard</b>	Suitable for all types of video.	<b>News/ Music/ Cinema/ Sport/ Game</b>
<b>Standard</b>	Suitable for all types of video.			
<b>News/ Music/ Cinema/ Sport/ Game</b>	Sets audio optimized for a specific genre.			
<b>Sound Effect</b>	The user can select various sound effects.			
	<b>Mode</b>			
	<b>Clear Voice II</b>	Makes the voice from the projector crisp and clear.		
	<b>Virtual Surround</b>	LG's proprietary audio processing technology allows 5 channel-like surround sound from two speakers. <ul style="list-style-type: none"> <li>• When <b>Clear Voice II</b> is set to on, <b>Virtual Surround</b> cannot be selected.</li> </ul>		
	<b>Equalizer</b>	Adjusts the volume to a level of your choice using the <b>Equalizer</b> . <ul style="list-style-type: none"> <li>• Audio-band (<b>100 Hz/ 300 Hz/ 1 kHz/ 3 kHz/ 10 kHz</b>) can be adjusted from - <b>10</b> to <b>10</b>.</li> <li>• <b>Reset</b>: Resets voice options that the user has changed.</li> </ul>		
	<b>Balance</b>	Adjusts the balance of the left and right speakers.		
<b>Reset</b>	Initialize the applied effect under the <b>Sound Effect</b> menu.			
<b>Auto Volume</b>	Automatically adjusts the volume level.			



## CHANNEL Settings

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

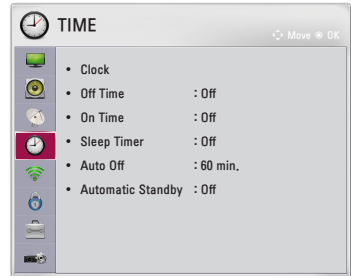


The available channel settings are described as follows.

Item	Description
<b>Auto Tuning</b>	Remembers a channel which is currently broadcasting. You should use this function when you move to another house or move the Projector to other place. It must be used while the antenna is connected and there are channel broadcasting signals. <ul style="list-style-type: none"> <li>• Channels are not registered properly unless the antenna/cable is connected correctly.</li> <li>• <b>Auto Tuning</b> only finds programs that are currently broadcasting.</li> <li>• If <b>Lock System</b> is turned <b>On</b>, a pop-up window will appear asking for password.</li> </ul>
<b>Manual Tuning</b>	Adjusts channels manually and saves the results. For digital broadcasting, signal strength, etc. can be checked.
<b>Channel Edit</b>	Edits the saved channels. Set as favorite channel, block/unblock channel, delete channel etc. of the selected channel.

## TIME Settings

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

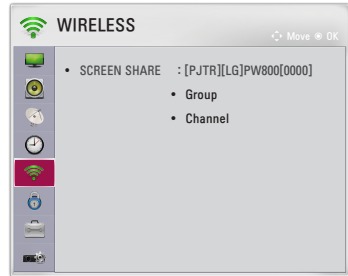


The available time settings are described as follows.

Item	Description			
<b>Clock</b>	Checks or changes the time while watching projector.			
	<b>Mode</b>			
	<table border="1"> <tr> <td><b>Auto</b></td> <td>Synchronizes the projector clock to the digital time information sent by the TV station.</td> </tr> <tr> <td><b>Manual</b></td> <td>Sets the time and date manually if the auto setup does not correspond to the current time.</td> </tr> </table>	<b>Auto</b>	Synchronizes the projector clock to the digital time information sent by the TV station.	<b>Manual</b>
<b>Auto</b>	Synchronizes the projector clock to the digital time information sent by the TV station.			
<b>Manual</b>	Sets the time and date manually if the auto setup does not correspond to the current time.			
<b>Off Time /On Time</b>	<p>Sets the time to turn on or off the projector automatically. To use this feature, you should set the current time and date in advance. To use this feature, set the time correctly. If you do not want to set <b>Off Time/On Time</b>, select <b>Off</b> in <b>Repeat</b>.</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>NOTE</b></p> <ul style="list-style-type: none"> <li>• If you set both <b>Off time</b> and <b>On time</b> features to the same time, the Off time feature overrides the On time feature.</li> <li>• If you do not press any button within two hours after the projector is turned on by the <b>On Time</b> feature, the projector enters standby mode automatically.</li> </ul> </div>			
<b>Sleep Timer</b>	Turns off the Projector after a preset number of minutes. To cancel the <b>Sleep Timer</b> , select <b>Off</b> .			
<b>Auto Off</b>	If there is no input signal or button press, the projector automatically turns off after the preset time has elapsed.			
<b>Automatic Standby</b>	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  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to select **WIRELESS** and press the **OK** button.
- 3 Use the  $\wedge$ ,  $\vee$ ,  $\lt$ , or  $\gt$  button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the  $\rightarrow$  button.
- 4 Press the **EXIT** button when completed.



The available wireless settings are described as follows.

Item	Description
<b>SCREEN SHARE</b>	The SCREEN SHARE displays the screen of the connected device. <ul style="list-style-type: none"> <li>• You can check the SCREEN SHARE's ID.</li> </ul>
	<b>Mode</b>
	<b>Group</b> 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.
	<b>Channel</b> You can change the channel used for wireless connections. <ul style="list-style-type: none"> <li>• <b>Search Channels:</b> Select channel searching methods.                             <ul style="list-style-type: none"> <li>- <b>Auto:</b> The projector searches for available channels and automatically selects the least used channel.</li> <li>- <b>Manual:</b> You can select a channel manually.</li> </ul> </li> <li>• <b>Channel:</b> This is shown when <b>Search Channels</b> is set to <b>Manual</b>. It allows you to specify a channel number to use.</li> </ul>

# LOCK Settings

- 1 Press the **SETTINGS** button.
- 2 Use the **^**, **v**, **<**, or **>** button to select **LOCK** and press the **OK** button.
  - To enter the **LOCK** menu, enter the preset 4-digit password. The initial password is set as **0000**.
- 3 Use the **^**, **v**, **<**, or **>** button to set up the desired item and press the **OK** button.
  - To return to the previous menu, press the **↶** button.
- 4 Press the **EXIT** button when completed.



The available lock settings are described as follows.

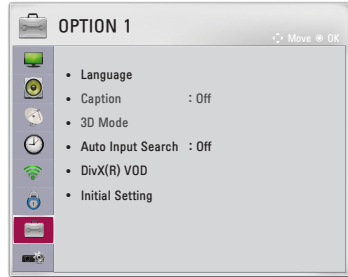
Item	Description
<b>Set Password</b>	Sets or changes projector password. <ul style="list-style-type: none"> <li>• The initial password is set as <b>0000</b>.</li> </ul>
<b>Lock System</b>	Locks the selected channel or external input. First set <b>Lock System</b> to <b>On</b> .
<b>Item</b>	
<b>Block Channel</b>	Blocks the programs that contain inappropriate contents for children. The programs can be selected but the screen is blank and the audio is muted. To watch a locked program, enter the password.
<b>Movie Rating</b>	Blocks the movies that are only broadcasted on the TV and contain inappropriate contents, based on the Motion Picture Association of America (MPAA) rating. <ul style="list-style-type: none"> <li>• <b>G : General audiences</b> All ages admitted</li> <li>• <b>PG : Parental guidance suggested</b> Some material may not be suitable for children</li> <li>• <b>PG-13 : Parents strongly cautioned</b> Some material may be inappropriate for children under 13</li> <li>• <b>R : Restricted</b> Under 17 requires accompanying parent or adult guardian</li> <li>• <b>NC-17 : No one 17 and under admitted</b></li> <li>• <b>X : Adult only</b></li> </ul>

Item	Description	
<b>Lock System</b>	<b>Item</b>	
	<b>TV Rating-Children</b>	<p>Blocks the children’s TV programs that parents do not want their children to watch. To block other TV programs, you should set the TV Rating-General feature.</p> <ul style="list-style-type: none"> <li>• <b>Age</b> TV-Y (All children, including children from ages 2-6), TV-Y7 (Directed to older children, suitable for children age 6 and above)</li> <li>• <b>Fantasy Violence</b> TY-Y7 (Directed to older children - Fantasy violence, suitable for children age 6 and above, containing more intense or combative fantasy violence)</li> </ul>
	<b>TV Rating-General</b>	<p>Blocks the TV programs that you want based on the ratings by using the Parental Control Function (V-Chip). The V-Chip electronically reads TV program ratings and allows parents to block program that are unsuitable for children.</p> <ul style="list-style-type: none"> <li>• <b>Age</b> TV-G (General audience, suitable for all ages) TV-PG (Parental guidance suggested, containing material that are unsuitable for younger children) TV-14 (Parents strongly cautioned, containing material that are unsuitable for children age 14 and under) TV-MA (Mature audience only, unsuitable for children age)</li> <li>• <b>Dialogue</b> (suggestive dialogue) TV-PG or TV-14</li> <li>• <b>Language</b> (coarse language)TV-PG, TV-14, or TV-MA</li> <li>• <b>Sex</b> (sexual situation) TV-PG, TV-14, or TV-MA</li> <li>• <b>Violence</b> TV-PG, TV-14, or TV-MA</li> </ul>
	<b>Down-loadable Rating</b>	<p>This function operates only when TV has received Region5 Rating data. The name of the rating option may differ.</p>
<b>Input Block</b>	<p>Block the input sources.</p>	

<b>Item</b>	<b>Description</b>
<b>Key Lock</b>	<p>Locks control buttons on projector.</p> <ul style="list-style-type: none"><li>• <b>Key Lock</b> function remains intact even in case of power outage or when the power cord is removed from the wall socket.</li><li>• <b>Key Lock</b> function can only be set by remote control, and not by the button on the projector.</li><li>• If you select <b>On</b>: You can turn the projector on only with the Power button if you have turned the projector off using the remote control. If you press a button on the joystick button while watching video, the message <b>Key Lock</b> is displayed.</li></ul>

## OPTION 1 Settings

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



The available option 1 settings are described as follows.

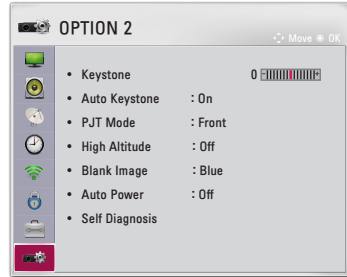
Item	Description	
<b>Language</b>	Selects a desired Menu Language.	
<b>Caption</b>	View subtitles when the TV station provides subtitled programming. Program subtitles work only on digital/analog broadcasts. Change Caption to <b>On</b> and select caption setting.	
	<table border="1"> <tr> <td><b>Mode</b></td> <td> <p><b>CC 1-4 (Closed Captioning) / Text 1-4</b>                      Displays the audio portion of a TV program as text on the TV screen. <b>CC 1</b> is the most common mode in use.</p> <p>Field 1 data channels: two Captions (<b>CC 1, CC 2</b>), two Text (<b>Text 1, Text 2</b>).</p> <p>Field 2 data channels: two Captions (<b>CC 3, CC 4</b>), two Text (<b>Text 3, Text 4</b>).</p> <p><b>Service1-6</b>                      This is only available for the digital broadcasting system.</p> </td> </tr> </table>	<b>Mode</b>
<b>Mode</b>	<p><b>CC 1-4 (Closed Captioning) / Text 1-4</b>                      Displays the audio portion of a TV program as text on the TV screen. <b>CC 1</b> is the most common mode in use.</p> <p>Field 1 data channels: two Captions (<b>CC 1, CC 2</b>), two Text (<b>Text 1, Text 2</b>).</p> <p>Field 2 data channels: two Captions (<b>CC 3, CC 4</b>), two Text (<b>Text 3, Text 4</b>).</p> <p><b>Service1-6</b>                      This is only available for the digital broadcasting system.</p>	

Item	Description		
<b>Caption</b>	<b>Digital Option</b>	Set up the size and color of the subtitles on <b>Digital Option</b> . Please select <b>Set by Program</b> or <b>Custom</b> . Select <b>Custom</b> to adjust minute options such as the subtitles' size and color.	
		<b>Item</b>	
		<b>Size</b>	Selects the wordsize.
		<b>Font</b>	Selects a typeface for the text.
		<b>Text Color</b>	Selects a color for the text.
		<b>Text Opacity</b>	Adjusts the opacity for the text color.
		<b>Bg Color</b>	Selects a color for the background color.
		<b>Bg Opacity</b>	Adjusts the opacity for the background color.
		<b>Edge Type</b>	Selects an edge type.
<b>Edge Color</b>	Selects a color for the edges.		
<b>3D Mode</b>	Selects 3D mode.		
<b>Auto Input Search</b>	Automatically searches for and displays the input signal type when it is received. It is available only with external inputs (RGB-PC, HDMI, AV, and Component).		
<b>DivX(R) VOD</b>	Sets DivX related settings.		
<b>Initial Setting</b>	<p>Deletes all optional settings and returns to initial default mode. Once initialization is complete, the projector will turn off and on by itself.</p> <ul style="list-style-type: none"> <li>• When <b>Lock System</b> is in place, a pop-up window appears and asks for password.</li> <li>• Do not turn off the power during initialization.</li> </ul>		



## OPTION 2 Settings

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



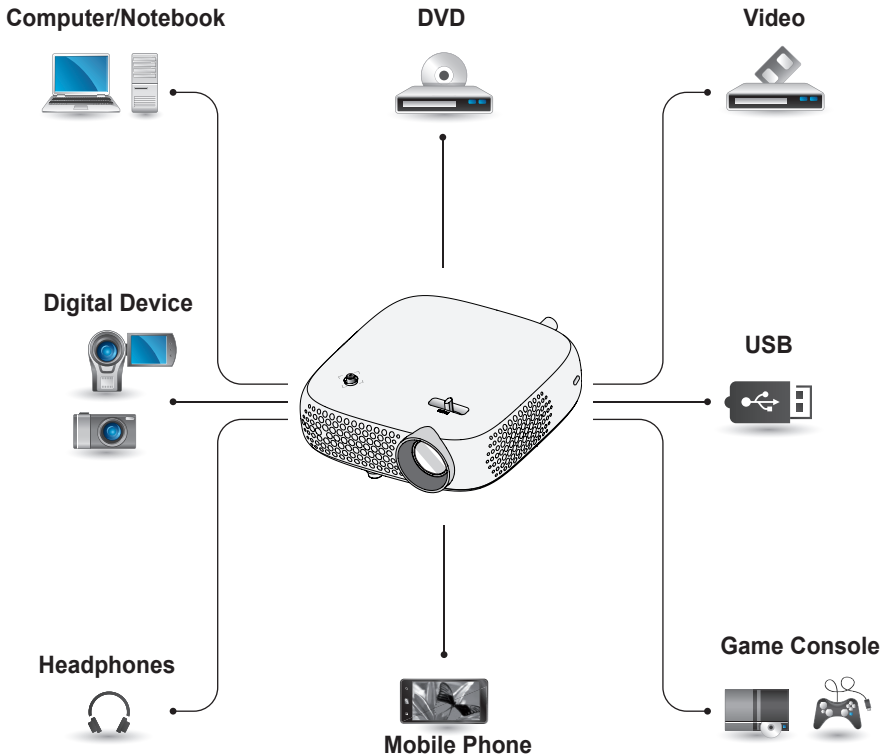
The available option 2 settings are described as follows.

Item	Description
<b>Keystone</b>	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.
<b>Auto Keystone</b>	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.
	<b>Item</b>
	<b>On</b> Automatically adjusts the Keystone number.
	<b>Off</b> Manually adjusts the Keystone number.
<b>PJT Mode</b>	This function turns the projected image upside down or flips horizontal. <ul style="list-style-type: none"> <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>
<b>High Altitude</b>	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.
<b>Blank Image</b>	Selects a background for blank Image.

<b>Item</b>	<b>Description</b>
<b>Auto Power</b>	Makes the projector turn on automatically when the adaptor plug is inserted.
	<b>Item</b>
	<b>On</b> When the AC/DC plug is connected to the projector, it turns on automatically.
<b>Off</b> When the AC/DC plug is connected to the projector, it goes into standby mode.	
<b>Self Diagnosis</b>	Troubleshoots functional problems that can arise while using the product.

# CONNECTING DEVICES

You can connect various external devices to the projector.



**HDMI - page 76**

**Component - page 77**

**Composite (AV) - page 77**

**RGB - page 79**

**USB Device - page 35**

**Headphone - page 81**

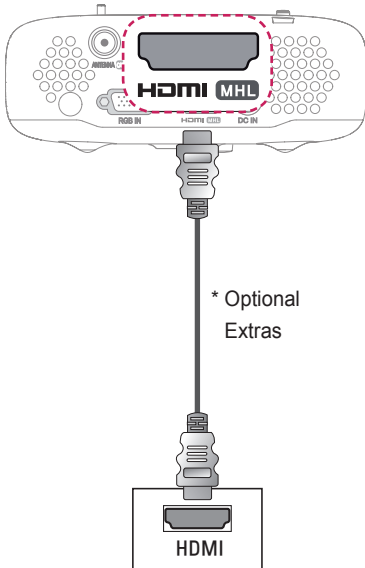
**Mobile Phone (MHL/Slimport) - page 82**

# 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 **HDMI (MHL)** 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**.

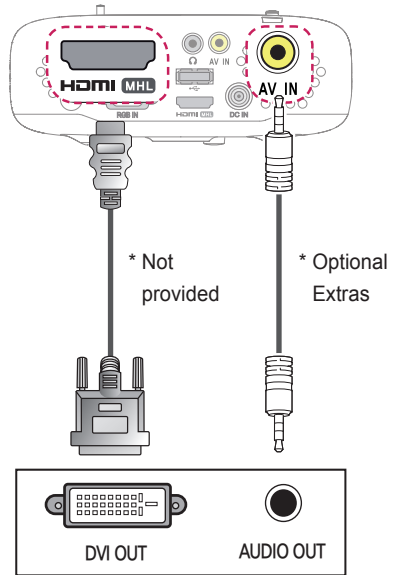


## HDMI to DVI Connection

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

To output audio, use an audio cable for connection.

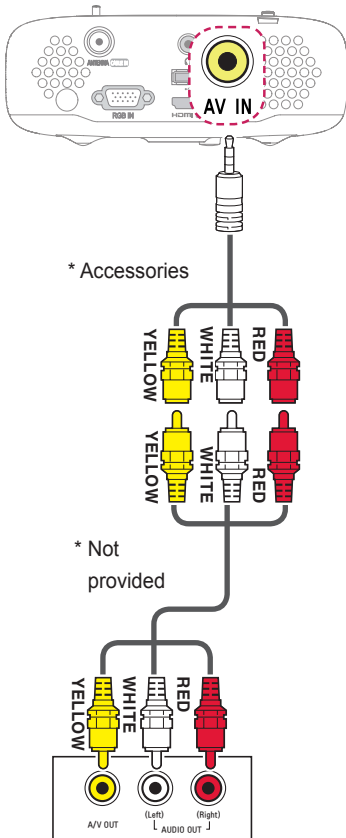
Press the **INPUT** button on the remote control to select **HDMI**.



## 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**.

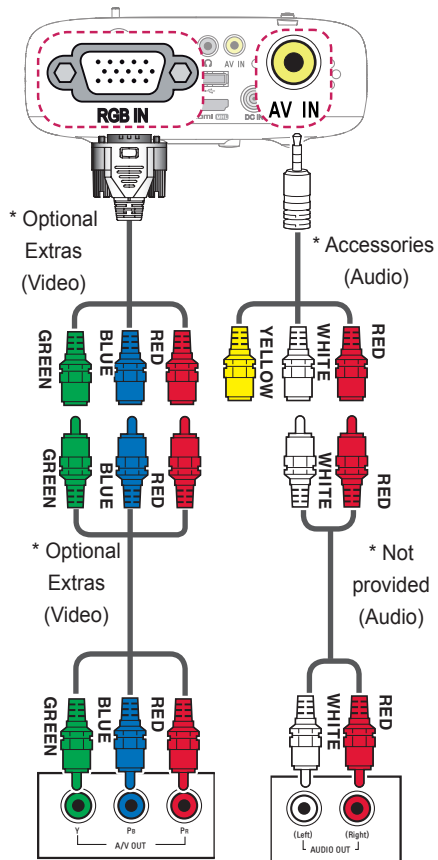
Check whether cables of the same color are connected properly.



## 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.

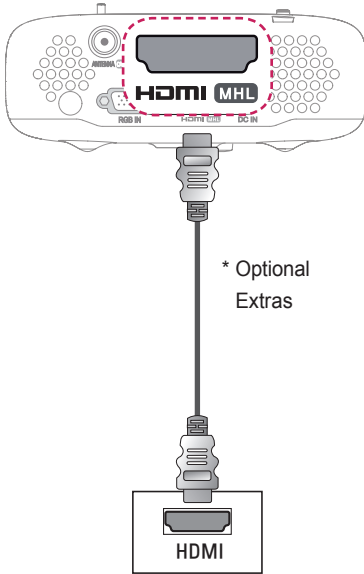


## Connecting a PC

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 (MHL)** 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**.

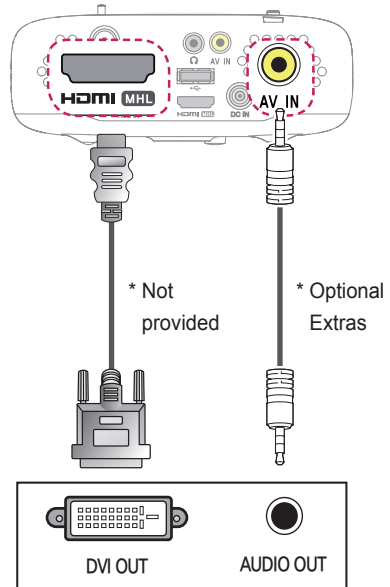


### HDMI to DVI Connection

Using an HDMI to DVI cable, connect the projector's **HDMI (MHL)** 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**.

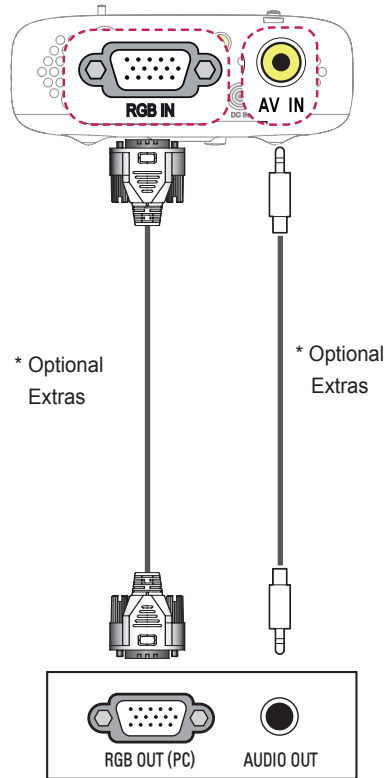
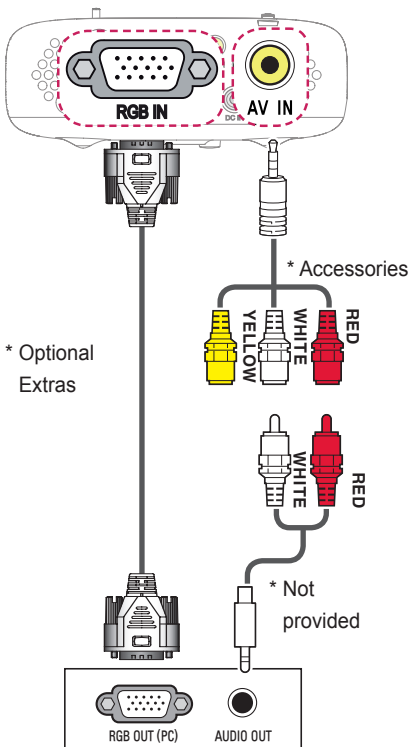


## RGB Connection

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.

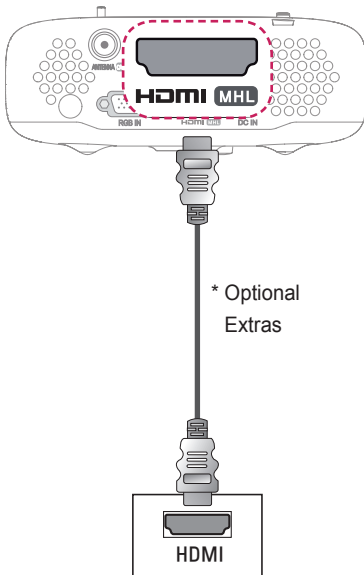
# Connecting a Laptop

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

## HDMI Connection

Using an HDMI cable, connect the **HDMI (MHL)** 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**.



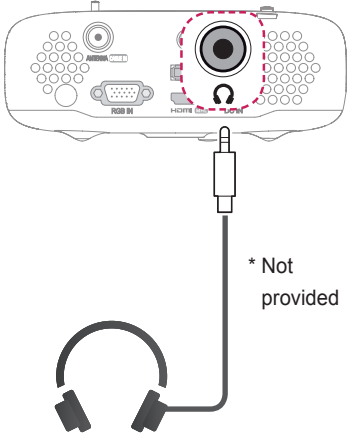
The table below shows examples of switching the output. For more information, refer to the **External Output, Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

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

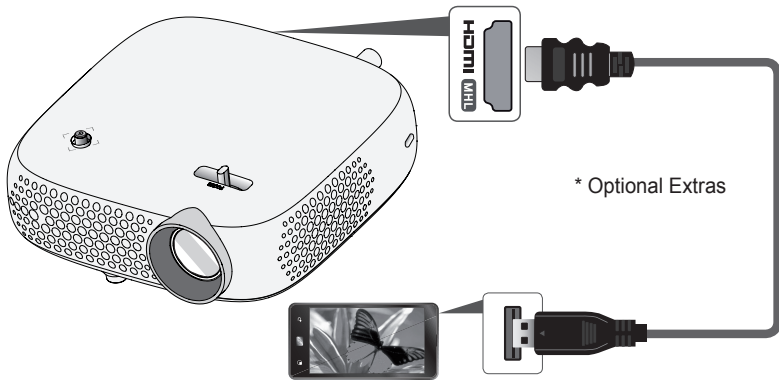
## MHL/Slimport Connection

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.)



### **!** NOTE

- When you connect a mobile phone to the **HDMI MHL** 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	PW800 (PW800-NA)	
Resolution (Pixel)	1280 (Horizontal) × 800 (Vertical)	
Aspect ratio	16:10 (Horizontal:Vertical)	
Panel size (mm)	11.623	
Projection distance (Video size)	0.80 m to 3.25 m (63.5 cm to 254.0 cm)	
Ratio of upward projection	100 %	
Working range of the remote control	6 m	
Video input	NTSC M / PAL-B, D, G, H, I / PAL M / PAL N / PAL 60 / SECAM	
AC-DC Adaptor	19.0 V  , 3.42 A (Adaptor Input 100-240 V @ 50/60 Hz)	
Audio Output	1 W + 1 W	
Reception type	DTV-ATSC / TV-NTSC	
Reception channels	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω (VHF/ UHF)	
Height (mm)	50 (without foot), 53 (with foot)	
Width (mm)	139	
Depth (mm)	139	
Weight (g)	600	
USB Device	5 V, 0.5 A (Max.)	
Power	AC 100 - 240 V~, 50 Hz/60 Hz	
Operation environment	<b>Temperature</b>	
	Operation	0 °C to 40 °C
	Storage	-20 °C to 60 °C
	<b>Relative Humidity</b>	
	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 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
	97.551	120
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, 1280 x 800 is recommended for the best picture quality.

**Supported HDMI/DVI-DTV Mode**

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

- To provide the best picture quality, a 1280 x 720 (720p) resolution is recommended.

**Component port connecting information**

Signal	Component
480i	o
480p	o
720p / 1080i	o
1080p	o (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](mailto:opensource@lge.com).

This offer is valid for three (3) years from the date on which you purchased the product.

