



OWNER'S MANUAL

# DLP PROJECTOR

Please read this manual carefully before operating your set and retain it for future reference.

HW300G  
HW301G

# SAFETY INSTRUCTIONS

Please take note of the safety instructions to prevent any potential accident or misuse of the projector.



**WARNING / CAUTION**  
**AVERTISSEMENT**

**RISK OF ELECTRIC SHOCK, DO NOT OPEN.**  
**RISQUE DE CHOC ÉLECTRIQUE, NE PAS OUVRIR.**



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 place the Projector in direct sunlight or near heat sources such as radiators, fires, stove etc.
  - This may cause a fire hazard.
- Do not place flammable materials in, on or near the projector.
  - This may cause a fire hazard.
- Do not hang on the installed projector.
  - It may cause the projector to fall, causing injury or death.
- Do not block the vents of the projector or restrict air-flow in any way.
  - This would cause the internal temperature to increase and could cause a fire hazard or damage to the unit.
- Do not place the projector close to sources of steam or oil such as a humidifier.
  - This may create a fire hazard or an electric shock hazard.
- Do not place the projector where it might be exposed to excessive dust.
  - This may cause a fire hazard or damage to the unit.
- Do not use the projector in a damp place such as a bathroom where it is likely to get wet.
  - This may cause a fire or an electric shock hazard.

- Do not place the projector directly on a carpet, rug or place where ventilation is restricted.
  - This would cause its internal temperature to increase and might create a fire hazard or damage the unit.
- Ensure good ventilation around the projector. The distance between the projector and the wall should be more than 30 cm.
  - An excessive increase in its internal temperature may cause a fire hazard or damage to the unit.

### NOTES

- When installing the projector on a table, be careful not to place it near the edge.
  - The projector could fall causing injury and damage to the projector. **Only use a suitable stand.**
- Disconnect from the power supply and remove all connections before moving, or cleaning.
- Only use the projector on a level and stable surface.
  - It may fall and cause injury and/or damage to the unit.
- Do not drop the projector when connecting to a external devices.
  - This may cause injury and/or damage to the unit.

## Power

### WARNING

- This Projector has a three-prong grounded AC plug. It must be connected to a three-prong grounded AC outlet. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.
- The power cord should be inserted fully into the power outlet to avoid a fire hazard.
  - This may cause a fire hazard or damage the unit.
- Do not place heavy objects on the power cord.
  - This may cause a fire or an electric shock hazard.
- Never touch the power plug with a wet hand.
  - This may cause an electric shock hazard.
- Do not plug-in too many items into one power outlet.
  - It may result in overheating of the outlet and create a fire hazard.
- Prevent dust from collecting on the power plug pins or outlet.
  - This may cause a fire hazard.

**NOTES**

- Hold the plug firmly when unplugging. If you pull the cord, it may be damaged.
  - This may cause a fire hazard.
- Do not use if the power cord or the plug is damaged or any part of the power outlet is loose.
  - This may cause a fire or an electric shock hazard or damage to the unit.
- Ensure the power cord does not come into contact with sharp or hot objects.
  - This may cause a fire or an electric shock hazard or damage to the unit.
- Place the projector where people will not trip or tread on the power cord.
  - This may cause a fire or an electric shock hazard or damage to the unit.
- Do not turn the projector On/Off by plugging-in or unplugging the power plug to the wall outlet. (Allow the unit to cool before removing power.)
  - It may cause mechanical failure or could cause an electric shock.

**Using****WARNING**

- Do not place anything containing liquid on top of the projector such as flowerpot, cup, cosmetics or candle.
  - This may cause a fire hazard or damage to the unit.
- In case of impact shock or damage to the projector switch it off and unplug it from the power outlet and contact an authorized service center.
  - This may cause a fire or an electric shock hazard or damage to the unit!
- Do not allow any objects to fall into the projector.
  - This may cause an electric shock hazard or damage to the unit!
- If water is spilt into the projector unplug it from the power supply immediately and consult your Service Agent.
  - This may cause an electric shock hazard or damage to the unit!
- Dispose of used batteries carefully and safely.
  - In the case of a battery being swallowed by a child please consult a doctor immediately.
- Do not remove any covers. High risk of Electric Shock.
- Don't look directly into the lens when the projector is in use. Eye damage may occur.
- Do not touch metal parts during or soon after operation since the vents will remain very hot.
- If the projector is in a room that experiences a gas leak, do not touch the projector.
  - It can cause a fire or a burn by a spark.
- Always open the lens door or remove the lens cap when the projector is on.
- Never touch this apparatus or power cord during a thunder or lightning storm.
  - This may cause an electric shock hazard.

- **CAUTION** concerning the Power Cord  
It is recommend that most appliances be placed on a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by authorized service personnel.  
Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

### NOTES

- Do not place heavy objects on top of projector.
  - This may cause mechanical failure or personal injury.
- Take care not to impact the lens particularly when moving the projector.
- Do not touch the lens of the projector. It is delicate and easily damaged.
- Do not use any sharp tools on the projector as this will damage the casing.
- In the event that an image does not appear on the screen please switch it off and unplug it from the power outlet and contact your Service Agent.
  - This may cause a fire or an electric shock hazard or damage to the unit!
- Do not drop the projector or allow impact shock.
  - This may cause mechanical failure or personal injury.
- Keep the proper distance from the product.
  - Your vision may be impaired if you look at the product too closely.

## **Cleaning**

### **WARNING**

- Do not use water while cleaning the projector.
  - This may cause damage to the projector or an electric shock hazard.
- In the unlikely event of smoke or a strange smell from the projector, switch it off, unplug it from the wall outlet and contact your dealer or service center.
  - This may cause a fire or an electric shock hazard or damage to the unit!
- Use an air spray or soft cloth that is moist with a neutral detergent and water for removing dust or stains on the projection lens.

### **NOTES**

- Contact the Service Center once a year to clean the internal parts of the projector.
  - Accumulated dust can cause mechanical failure.
- When cleaning the plastic parts such as projector case, unplug the power and wipe it with a soft cloth. Do not use cleanser, spray water or wipe with a wet cloth. Especially, never use cleanser (glass cleaner), automobile or industrial shiner, abrasive or wax, benzene, alcohol etc., which can damage the product. Use an air spray or soft cloth that is moist with a neutral detergent and water for removing dust or stains on the projection lens.
  - It can cause fire, electric shock or product damage (deformation, corrosion and damage).

## **Others**

### **WARNING**

- Do not attempt to service the projector yourself. Contact your dealer or service center.
  - This may cause damage to the projector and could give an electric Shock as well as invalidating the warranty.

### **NOTES**

- Do not mix new batteries with old batteries.
  - This may cause the batteries to overheat and leak.
- Be sure to unplug if the projector is not to be used for a long period.
  - Accumulated dust may cause a fire hazard or damage to the unit!
- Only use the specified type of battery.
  - This could cause damage to the remote control.

# TABLE OF CONTENTS

<b>SAFETY INSTRUCTIONS</b>	<b>2</b>	<b>ENTERTAINMENT</b>	<b>21</b>
<b>ASSEMBLING AND PREPARING</b>	<b>9</b>	<b>MY MEDIA</b>	<b>21</b>
Unpacking	9	- Connecting USB Storage Devices	21
Optional Extras	10	- MOVIE LIST	23
Parts and Buttons	11	- PHOTO LIST	29
Installation	12	- MUSIC LIST	32
- Installation Precautions	12	- FILE VIEWER	33
- Basic Operation of the Projector	13	<b>PLAY GAME</b>	<b>35</b>
- How to Install the Projector Using a Tripod	14	<b>CUSTOMIZING SETTINGS</b>	<b>36</b>
- Kensington Security System	14	The SETUP Menu	36
<b>REMOTE CONTROL</b>	<b>15</b>	PICTURE Settings	37
<b>WATCHING PROJECTOR</b>	<b>17</b>	SCREEN Settings	41
Watching Projector	17	AUDIO Settings	42
- Turning on for the First Time	17	TIME Settings	42
- Focus and Position of the Screen Image	17	OPTION Settings	43
- Operating the Projector	17	<b>MAKING CONNECTIONS</b>	<b>44</b>
<b>Using Additional Options</b>	<b>18</b>	Connecting to a HD receiver, DVD, or VCR player	45
- Adjusting Aspect Ratio	18	- HDMI Connection	45
- Adjusting Keystone	19	- Component Connection	45
- Using the Input List	19	Connecting to a PC	46
- Blank Function	20	- RGB Connection	46
Using the Quick Menu	20	- Composite Connection	46
		Connecting to a Headphone	47

<b>MAINTENANCE</b>	<b>48</b>
<b>Cleaning the Projector</b>	<b>48</b>
- Cleaning the lens	48
- Cleaning the Projector Case	48
<b>How to Fix the Lens Cap</b>	<b>48</b>
<b>SPECIFICATIONS</b>	<b>49</b>



**NOTE**

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

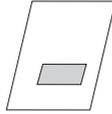
# ASSEMBLING AND PREPARING

## Unpacking

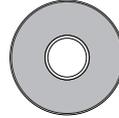
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and item.



Remote Control  
and Batteries (AAA)



Owner's manual



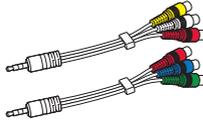
CD Owner's  
manual



Power Cord



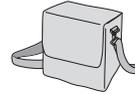
Computer Cable



Composite/  
Component  
Gender cable



AC-DC Adapter



Portable bag

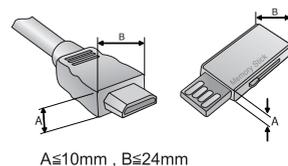


Polishing Cloth



Lens Cap and Strap

- Note that clearance is limited between the USB and HDMI inputs. Using devices of a non-standard size may block other ports.



## Optional Extras

Optional extras can be changed or modified for quality improvement without any notification.

Contact your dealer for buying these items.



Projection Screen



Tripod



HDMI Cable



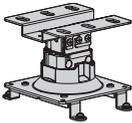
Video Cable



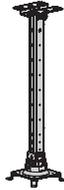
Audio Cable



Component Cable



AJ-CB2



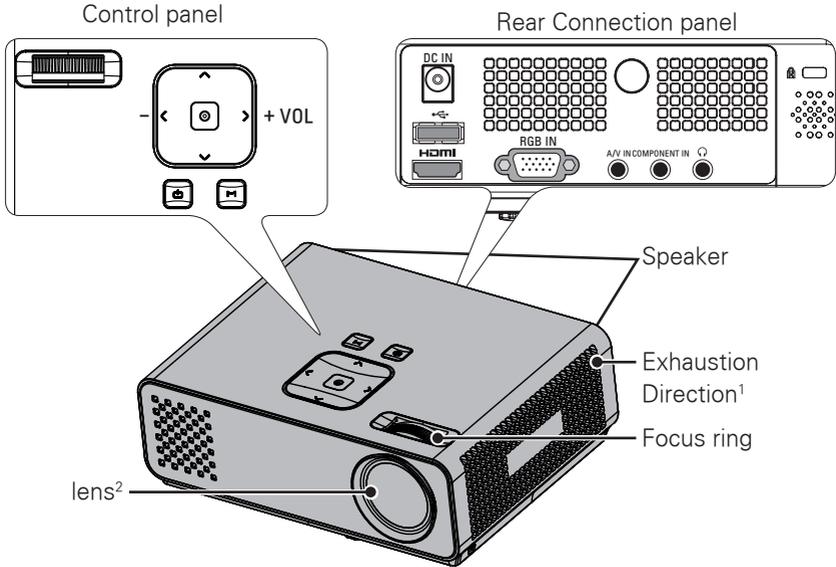
AJ-CB2+AJ-CS60

Ceiling Mounting Bracket<sup>1</sup>

<sup>1</sup> Use screw size: M4x6-M4x8

## Parts and Buttons

\* This projector is manufactured using high-precision technology. You may, however, see on the Projector screen tiny black points and/or bright points (red, blue, or green). This can be a normal result of the manufacturing process and does not always indicate a malfunction.



Button	Description
(POWER)	Turns the projector ON/OFF.
(MENU)	Displays or closes menus.
VOL -, +	Adjusts the volume level.
^, v, <, >	Adjusts functions of menus.
(OK)	Checks present mode and saves the change of functions.

1 High heat, keep the area near the exhaust clear.

2 Do not touch the lens when using the projector or opening the lens cap.

# Installation

## Installation Precautions

- Always provide proper ventilation for this projector.

- The projector is equipped with ventilation holes. Do not block or place anything near these holes. Internal heat build-up may occur, causing picture degradation or damage to the projector.



- Do not place the projector on a carpet, rug or other similar surface. It may prevent an adequate ventilation of the projector bottom. This product should be mounted to a wall or ceiling only.



- Never push the projector or spill any kind of liquid into the projector.



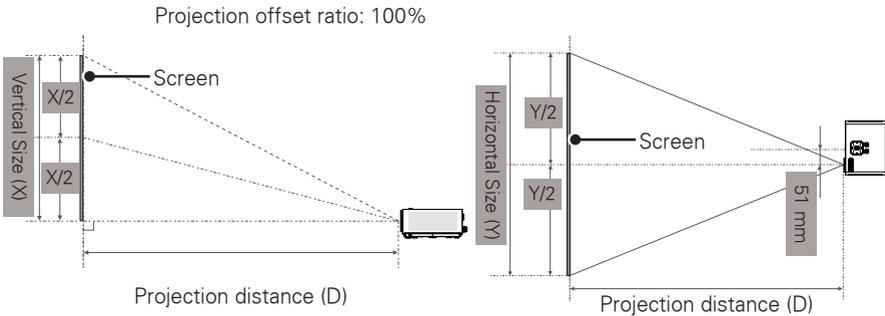
- Leave an adequate distance (30 cm or more) around the projector.



- Place this projector in adequate temperature and humidity conditions.
  - Install this projector only in a location where adequate temperature and humidity is available. (See p.49)
- Don't place the projector where it can be covered with excessive dust.
  - This may cause overheating of the projector.
- Do not obstruct the slots and openings of the projector. This may cause overheating and cause a fire hazard.
- This projector is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (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 when a lamp equipped with electronic ballast or a three-wavelength lamp is installed. Replace those lamps with international standard products to use the remote control normally.

## Basic Operation of the Projector

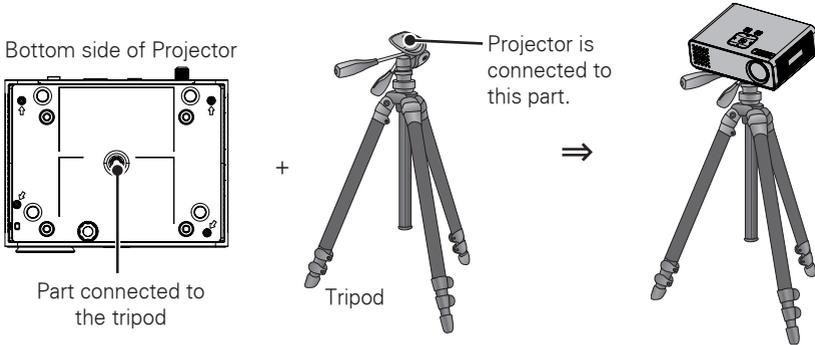
- 1 Place the projector on a sturdy and horizontal surface.
- 2 Place the projector with the desired distance from the screen. The distance between the projector and the screen determines the actual size of the image.
- 3 Position the projector so that the lens is set at a right angle to the screen. If the projector is not set at a right angle, the screen image will be crooked. Although, slight angles can be counteracted using the Keystone adjustment. (See p.19).
- 4 After placing the projector in its desired location, connect the video input(s). Then connect the power cable to the projector and the wall outlet.



16 : 9 Scale			
Diagonal Size (mm)	Horizontal Size (Y) (mm)	Vertical Size (X) (mm)	Projection Distance (D) (mm)
508	431	269	586
635	538	337	737
762	646	404	887
889	754	471	1038
1016	861	539	1200
1143	969	606	1342
1270	1077	673	1492
1397	1185	741	1643
1524	1292	808	1794
1651	1400	875	1947
1778	1508	943	2097
1905	1615	1010	2248
2032	1723	1077	2399
2159	1831	1145	2552
2286	1938	1212	2702
2413	2046	1279	2853
2540	2154	1347	3004

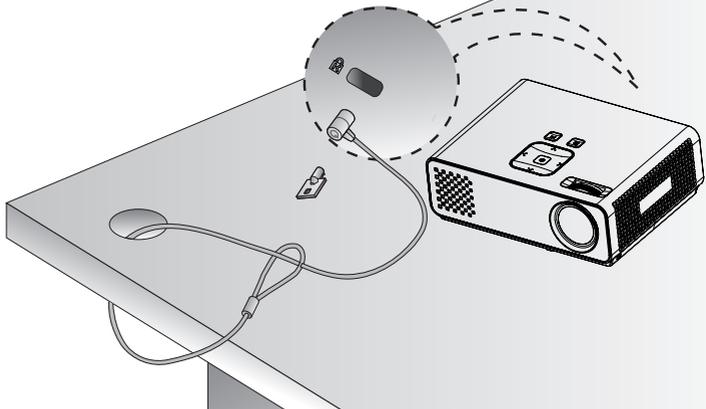
## How to Install the Projector Using a Tripod

- \* You can install this projector using a camera tripod.
- \* When stabilizing the tripod, we recommend using the 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.)



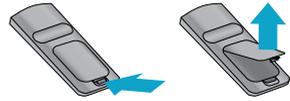
## Kensington Security System

- This projector has a Kensington Security System Connector on the panel. Connect a Kensington Security System cable as below.
- For detailed installation and use of the Kensington Security System, refer to the user's guide included with the Kensington Security System set. And for further information, contact <http://www.kensington.com>, the internet homepage of the Kensington company that deals with expensive electronic equipment such as notebook PCs or projectors.
- The Kensington Security System is an optional item.



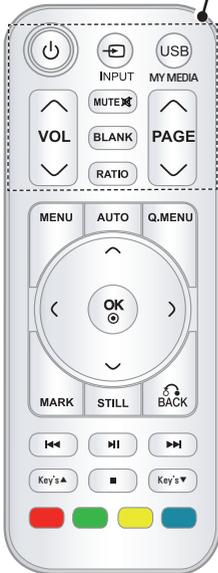
# REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully and use the projector correctly. To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching the ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse.



## CAUTION

- RISK OF EXPLOSION IF BATTERY IS REPLACED WITH AN INCORRECT TYPE. DISPOSE OF USED BATTERIES AT A RECYCLING DROP-OFF LOCATION.
- Do not mix old and new batteries, as this may damage the remote control.



### POWER

Turns the projector on or off.

### INPUT

Changes the input source.

### USB/MY MEDIA

Access **MY MEDIA**.

### VOL

Adjusts the volume level.

### MUTE

Mutes all sounds

### BLANK

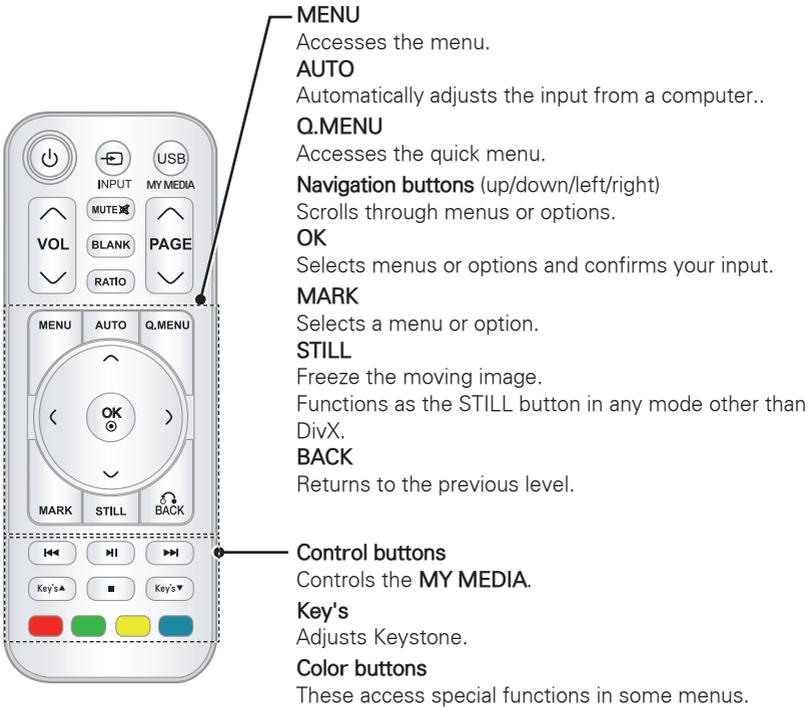
Turns the projector screen on or off.

### RATIO

Resizes an image.

### PAGE

Moves to the previous or next screen.



**MENU**  
Accesses the menu.

**AUTO**  
Automatically adjusts the input from a computer..

**Q.MENU**  
Accesses the quick menu.

**Navigation buttons** (up/down/left/right)  
Scrolls through menus or options.

**OK**  
Selects menus or options and confirms your input.

**MARK**  
Selects a menu or option.

**STILL**  
Freeze the moving image.  
Functions as the STILL button in any mode other than DivX.

**BACK**  
Returns to the previous level.

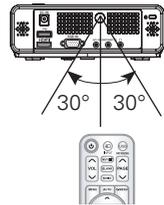
**Control buttons**  
Controls the **MY MEDIA**.

**Key's**  
Adjusts Keystone.

**Color buttons**  
These access special functions in some menus.

**NOTE**

- Optimal remote range is less than 6 meters and within a 60 degree arc of the IR receiver.
- The remote range may be less when cables are connected to the projector.
- 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 reduce the battery life significantly.



# WATCHING PROJECTOR

## Watching Projector

### Turning on for the First Time

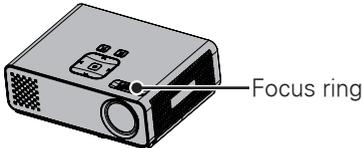
- 1 Make sure the power cord is connected correctly.
- 2 After wait for a moment, press the **POWER** button on the remote control or control panel. (The light on the control panel will be turned on.)
  - Press the **INPUT** button on the remote control to select the input signal you want.
  - Verify the lens cap is removed before turning on the power.
- 3 Follow the on-screen instructions to customize your projector settings according to your preferences.

**Language**

Selects a language to display.

### Focus and Position of the Screen Image

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



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

## Operating the Projector

- 1 In Standby mode, press the **POWER** to turn the projector on.
- 2 Press **INPUT** and select desired input.
- 3 Control the projector using the following buttons while you are watching projector.

Button	Description
<b>VOL -, +</b>	Adjusts the volume level.
<b>MUTE</b>	Mutes all sounds.
<b>Q.MENU</b>	Accesses the quick menus. (See p.20)
<b>RATIO</b>	Resizes an image.
<b>Key's</b>	Adjusts Keystone. (See p.19)

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

## Using Additional Options

### Adjusting Aspect Ratio

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



#### NOTE

- Some options may not be available depending on input signals.
- You can also change the image size by pressing **Q.MENU** or **MENU**.

- **FULL**: Changes to the full screen regardless of the aspect ratio.



- **16:9**: Resizes images to fit the screen width.



- **Just Scan**: Displays video images in the original size without cutting off the edges.



#### NOTE

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

- **Set By Program**: Displays images in the same aspect ratio as the original image.



- **4:3**: Resizes images to the previous standard.



- **Zoom**: Enlarges an image to fit the screen width. The top and bottom of the image may not appear.
  - Adjust proportion of Zoom, press  $<$  or  $>$ .
  - Move the image on the screen, press  $\wedge$  or  $\vee$ .



- **Cinema Zoom**: Formats an image to the cinemascope ratio, 2.35:1.
  - To change the ratio of the cinema zoom, press  $<$  or  $>$  and its range is from 1 to 16.
  - To move the zoom focus up or down, press  $\wedge$  or  $\vee$ .



#### NOTE

- If you enlarge or reduce an image, the image may be distorted.

## Adjusting Keystone

Use this function when the screen is not at a right angle to the projector and the image is a trapezoid shape. Only use the **Keystone** function when you can't get the best angle by moving the projector.

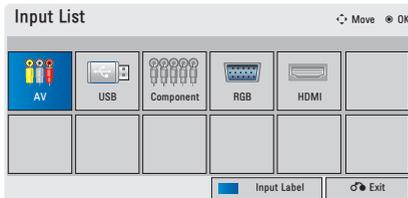


- 1 Press **Key's▲**, **Key's▼** to adjust the screen condition as you want.
  - **Keystone** can be adjusted from **-40** to **40**.
- 2 When you are finished, press **BACK**.

## Using the Input List

### Using the Input List

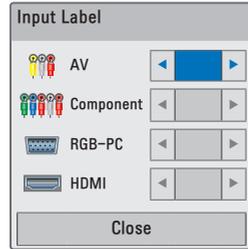
- 1 Press **INPUT** to access the input sources.
  - The connected device displays on input source, AV input is always active.



- 2 Selecting an input signal with the **INPUT** button will only change the projector only to connected inputs. Press the Navigation buttons to scroll to any inputs.

### Adding an Input Label

Add a label to an input source so that you can easily identify a device connected to each input source.



- 1 Press **INPUT** to access the input sources.
- 2 Press the **Blue**.
- 3 Press the Navigation buttons to scroll to one of the input sources.
- 4 Press the Navigation buttons to scroll to one of the input labels.
- 5 When you are finished, press **BACK**.

## Blank Function

### Using Blank Function

This function may be effective if you need to get the attention of the audience during presentations, meetings or briefings.

- 1 Press the **BLANK** to turn off the screen.

You can choose the background color. (Refer to "Selecting Blank Image")

- 2 Press any button to cancel the blank function.

To temporarily turn off the image on the screen, press **BLANK**. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire.

### Selecting Blank Image

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Blank Image** and press **OK**.
- 4 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 5 When you are finished, press **BACK**.

## Using the Quick Menu

Customize frequently used menus.

- 1 Press **Q.MENU** to access the quick menus.
- 2 Press the Navigation buttons to scroll through the following menus and press **OK**.

Menu	Description
<b>Aspect Ratio</b>	Changes the image size. (See p.18)
<b>Picture Mode</b>	Changes the image mode. (See p.37)
<b>LED Mode</b>	To adjust the brightness of the image. (See p.43)
<b>Color Temperature</b>	To adjust the overall color of the screen to the feeling you want.
<b>Caption</b>	Sets whether to display captions.
<b>Sleep Timer</b>	The sleep timer turns the projector off at the preset time.
<b>PJT Mode</b>	Turns the projected image upside down or flips horizontal.
<b>USB Device</b>	Eject a USB device. The menu is displayed only when the USB device is connected.

- 3 Press the Navigation buttons to scroll to the option you want.
- 4 When you are finished, press **Q.MENU**.

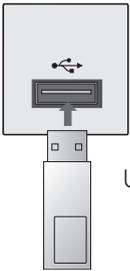
# ENTERTAINMENT

## MY MEDIA

### Connecting USB Storage Devices

Connect USB storage devices such as a USB flash drive or external hard drive to the projector and use multimedia features.

Connect a USB flash drive or USB memory card reader to the projector as shown in the following illustration.



USB memory stick

To disconnect a USB storage device, make sure to end the connection properly to prevent damages to the projector or files.

- 1 Press **Q.MENU** to access the quick menus.
- 2 Press the Navigation buttons to scroll to **USB Device** and press **OK**.
- 3 Disconnect the USB storage device only when the message says that it is safe to remove.

#### **NOTE**

- After Eject USB, USB memory cannot be read. Remove USB memory, and connect again.

## Tips for Using

### USB Storage Devices

- Only a USB storage device is recognizable.
- USB hubs are not supported.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device will depend on each device.
- Please do not turn off the projector or unplug the USB device when the connected USB storage device is operating. When such a device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files, movie files or text files.
- Please use only a USB storage device which was formatted as a FAT16, FAT32 and NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programmed which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- Some USB storage devices may not be supported or operate smoothly.
- If the name of a folder or file is too long, it will not be displayed or recognized.
- File alignment method of USB storage device is similar to Window XP and filename with up to 100 english characters can be recognized.
- Please backup important files because a data of USB device may be damaged. Data management is consumer's responsibility and in consequence the manufactures does not cover data damage.
- The recommended capacity is 1TB or less for a USB external hard disk and 32GB or less for USB memory. Any device with more than the recommended capacity may not work properly.
- If the USB memory device does not work properly, disconnect and reconnect it.
- If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.

## **MOVIE LIST**

\* The movie list is activated once USB is detected. It is used when playing movie files on projector.

### **Tips for playing video files**

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Time information in an external subtitle file should be arranged in ascending order to be played.
- Changing font and color in subtitles is not supported.
- Subtitles in languages other than one specified are not supported.
- Subtitle files of 1 MB or larger may not be played properly.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged video file may not be played correctly, or some functions may not be usable.
- Video files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, the file not playback properly.
- Video with resolution higher than maximum resolution supported for each frame, cannot be guaranteed for smooth playback.
- Video files other than the specified types and formats may not work properly.
- The movie file encoded by the GMC (Global Motion Compensation) and Opel (Quarterpel Motion Estimation) is not supported.
- Only 10000 sync blocks are supported within the subtitle file.
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A video file more than 30GB in file size is not supported for playback.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- The video file and its subtitle file must be located in the same folder. At this time, a video file name and its subtitle file name must be identical for it to be displayed.
- When you are watching a movie via the Movie List function, user setup for each picture mode is not supported.
- Trick Mode does not support other functions than ► if video files do not have index information.
- When playing video file using network, the Trick mode is limited to 2-times speed.
- Video file names that contain special characters may not be playable.

## DivX Supported Video Formats

File Extensions	Audio/Video	Codec	Profile/Level Support	Explanation
.asf .wmv	Video	VC-1 Advanced Profile	Advanced Profile @ Level 3 (e.g. 720p 60, 1080i 60, 1080p 30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		VC-1 Simple and Main Profiles	Simple Profile @ Medium Level (e.g. CIF, QVGA) Main Profile @ High Level (e.g. 1080p 30)	
.divx .avi	Video	WMA Standard		Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		WMA 9 Professional		
		DivX3.11		
	DivX4 DivX5 DivX6 XViD	Advanced Simple Profile(720p/1080i)		
Audio	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)		
	MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital			
.mp4 .m4v	Video	H.264 / AVC	Main Profile @Level 4.1 High Profile @Level 4.1 (e.g. 720p 60, 1080i 60, 1080p 30)	Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		MPEG-4 Part 2	Advanced Simple Profile(e.g. 720p/1080i)	
Audio	AAC	AAC-LC and HE-AAC		
.mkv	Video	H.264 / AVC	Main Profile @Level 4.1 High Profile @Level 4.1 (e.g.720p 60, 1080i 60, 1080p 30)	Most of the MKV content available is encoded by the open source x264 codec.
		HE-AAC	HE-AAC-LC and HE-AAC	
.ts .trp .tp	Video	H.264 / AVC	Main Profile @Level 4.1 High Profile @Level 4.1 (e.g. 720p 60, 1080i 60, 1080p 30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		MPEG-2	Main Profile @High Level (e.g. 720p 60, 1080i 60)	
		VC-1	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30) Advanced Profile@Level3 (e.g. 720p60, 1080i60, 1080p30)	
	Audio	MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital		
AAC		AAC-LC and HE-AAC		
.vob	Video	MPEG-1		
		MPEG-2	Main Profile @High Level (e.g. 720p 60, 1080i 60)	
Audio	Dolby Digital MPEG-1 Layer I, II DVD-LPCM			
.mpg .mpeg .mpe	Video	MPEG-1	Main Profile@High Level (e.g. 720p60, 1080i60)	Only streams compliant configured properly for TS, PS or ES
	Audio	MPEG-1 Layer I, II		

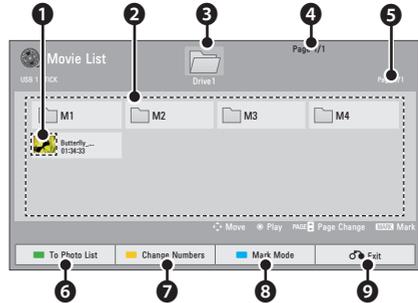
Bit rate range : within 32 kbps - 320 kbps (MP3)

Subtitle format : \*.smi/\*.srt/\*.sub(MicroDVD, SubViewer1.0/2.0)/\*.ass/\*.ssa/\*.txt(TMPlayer)/\*.psb(PowerDivX)

### Browsing Movie List

Play video files on the screen. Your screen can display video files from a USB storage device.

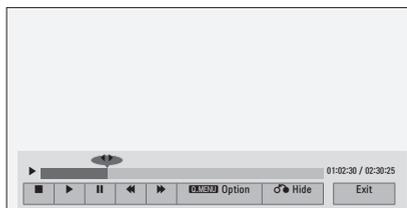
- 1 Connect a USB storage device.
- 2 Press **USB** to access the Home menu.
- 3 Press the Navigation buttons to scroll to **Movie List** and press **OK**.
- 4 Press the Navigation buttons to scroll to the device you want and press **OK**.
- 5 Press Navigation buttons to select a folder or file you want and press **OK**.



No.	Description
1	Thumbnail
	Abnormal files 
	Non-supported files 
2	Contents List
3	Moves to upper level folder
4	Current page/Total pages of folders
5	Current page/Total pages of contents
6	Move to Photo List.
7	Changes the number or thumbnails displayed at a time.

No.	Description
8	Allows you to mark certain files. Select files you want and press <b>Color buttons</b> .
<b>Play Marked</b>	Press <b>Red</b> . Play the first selected file.
<b>Mark All</b>	Press <b>Green</b> . Mark all files in the folder.
<b>Unmark All</b>	Press <b>Yellow</b> . Deselect all marked files.
<b>Exit Mark Mode</b>	Press <b>Blue</b> . Enter or exit the Mark Mode.
9	Exit.

6 Play a movie by using the following menus/buttons.



Button	Description
<, >	Move to a specific frame forward or backward while playing a video. A cursor indicating the position can be viewed on the screen. It may not work properly for some movie files.
■	Stop the media player. Back to the Movie List
▶	Return to normal playback.
	Pauses the media player. If no buttons are pressed on the remote control for 10 minutes after pausing, the projector returns to the playback state.
and ▶▶	Displays slow motion.
◀▶	Select the required speed: x2, x4, x8, x16, x32 (backward/forward).
<b>O.MENU</b> Option	Popup <b>Option</b> menu. See "Options for Movie List".
🔍 Hide	Hide the menu on screen. To see the menu again, press <b>OK</b> .
Exit	Return to <b>Movie List</b> .

### Options for Movie List

- 1 Press **Q.MENU**.  
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to the option and press **OK**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **OK**.

#### Set Video Play.

Option	Description
<b>Picture Size</b>	Selects your desired picture format for videos. <ul style="list-style-type: none"> <li>• <b>Full</b>: Files are played according to the aspect ratio of video.</li> <li>• <b>16:9</b>: Displays the video with the aspect ratio of 16:9.</li> <li>• <b>Original</b>: Displays the video in original aspect ratio.</li> </ul>
<b>Audio Language</b>	Changes the Language Group of the audio for video files. Files with a single audio track cannot be selected.

Option	Description
<b>Subtitle Language</b>	The subtitles can be turned on or off. <ul style="list-style-type: none"> <li>• <b>Language</b>: Activated for SMI subtitles and can select the language within the subtitle.</li> <li>• <b>Code Page</b>: Subtitle font selection. When set to default, contents are displayed in the language set in OPTION - Language : Menu.</li> <li>• <b>Sync</b>: When the video is not synchronized with the captions, it can be adjusted by 0.5 second.</li> <li>• <b>Position</b>: Move the location of the subtitles.</li> <li>• <b>Size</b>: Changes the subtitle font size.</li> </ul>
<b>Repeat</b>	Turn on/off repeat function of movie playback. When turned off, if the next file name is similar to the previous file, it can be played sequentially.

- Language

Subtitle Language Group	Supported Language
<b>Latin1</b>	French, Spanish, Catalan Basque, Portuguese, Italian, Albanian, Rhaeto-Romanic, Dutch, German, Danish, Swedish, Norwegian, Finnish, Faeroese, Icelandic, Irish, Scottish, English
<b>Latin2</b>	Czech, Hungarian, Polish, Romanian, Croatian, Slovak, Slovenian, Serbian
<b>Latin4</b>	Estonian, the Baltic languages and Latvian(Lettish) and Lithuanian, Greenlandic and Lappish
<b>Latin5</b>	English, Turkish
<b>Cyrillic</b>	Bulgarian, Byelorussian, Macedonian, Russian, Serbian and pre-1990(no ghe with upturn) Ukrainian
<b>Greek</b>	English, Modern Greek
<b>Hebrew</b>	English, Modern Hebrew
<b>Chinese</b>	Chinese
<b>Korean</b>	English, Korean
<b>Arabic</b>	English, Arabic

### Set Video Play.

Allows you to change Video presets (Refer to "PICTURE Settings" on page 37).

### Set Audio.

Allows you to change Audio presets (Refer to "AUDIO Settings" on page 42).

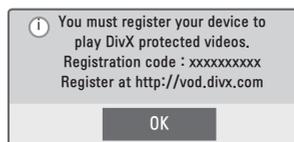
## Registering the DivX code

- The DivX registration code allows you to rent or purchase the latest movies at [www.divx.com/vod](http://www.divx.com/vod). To play a rented or purchased DivX file, the file's registration code should be same as your projector's DivX registration code.

- 1 Press **USB** to access the Home menu and press **Blue**.



- 2 Press the Navigation buttons to scroll to **DivX(R) VOD Registration** and press **OK**.



- 3 View the registration code of your projector.

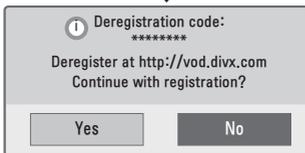
### NOTE

- While you are checking the registration code, some buttons may not work.
- If you use the DivX registration code of another device, you cannot play the rented or purchased DivX file. Make sure to use the DivX registration code assigned to your projector.
- The video or audio files that are not converted by the standard DivX codec may be corrupted or not be played.
- The DivX VOD code allows you to activate up to 6 devices under one account.

## Deactivating the DivX feature

- You can deactivate all of the devices through the web server and block devices from activating. Delete the existing authentication information to receive a new DivX user authentication for the projector. Once this function is executed, a DivX user authentication is required again to see DivX DRM files.

- 1 Press **USB** to access the Home menu and press **Blue**.
- 2 Press the Navigation buttons to scroll to **DivX(R) Deregistration** and press **OK**.
- 3 Select **Yes** to confirm.



### ! NOTE

- DRM (Digital Rights Management) function: These are the technology and the service that prevents the illegal use of digital contents to protect the copyrights owners' benefits and rights. File can be played after the license is cleared through the methods of online, etc.

## PHOTO LIST

\* The projector can display JPEG files.

### Supported Photo File Formats

PHOTO(\*.JPEG) supporting file

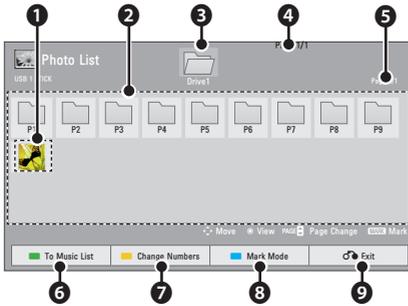
Baseline: 64 pixel (width) x 64 pixel (height) to 15360 pixel (width) x 8640 pixel (height)

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

- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.
- An error message occurs for corrupted files or file formats that cannot be played.
- Corrupted image 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 **USB** to access the Home menu.
- 3 Press the Navigation buttons to scroll to **Photo List** and press **OK**.
- 4 Press the Navigation buttons to scroll to the device you want and press **OK**.
- 5 Press Navigation buttons to select a folder or file you want and press **OK**.



No.	Description	
1	Thumbnail	
	Abnormal files	
	Non-supported files	
2	Contents List	
3	Moves to upper level folder	
4	Current page/Total pages of folders	
5	Current page/Total pages of contents	
6	Move to <b>Music List</b> .	
7	Changes the number or thumbnails displayed at a time.	

No.	Description	
8	Allows you to mark certain files. Select files you want and press <b>Color buttons</b> .	
	<b>View Marked</b>	Press <b>Red</b> . Display the selected photo.
	<b>Mark All</b>	Press <b>Green</b> . Mark all files in the folder.
	<b>Unmark All</b>	Press <b>Yellow</b> . Deselect all marked files.
9	<b>Exit Mark Mode</b>	Press <b>Blue</b> . Enter or exit the Mark Mode.
	Exit.	

6 The following options are available while viewing photos.



Option	Description
2/13	Select the previous or next photo.
<b>Slideshow</b> 	Selected photos are displayed during the slide show. If no photo is selected, all photos in the current folder are displayed during slide show. <ul style="list-style-type: none"> <li>Set the time interval of the slide show in <b>Option-Set Photo View</b> menu.</li> </ul>

Option	Description
BGM 	Listen to music while viewing photos in full size. <ul style="list-style-type: none"> <li>Set the <b>BGM</b> device and album in <b>Option-Set Photo View</b>. menu.</li> </ul>
	Rotate photos. <ul style="list-style-type: none"> <li>Rotates the photo 90°, 180°, 270°, 360° clockwise.</li> <li>Photos cannot be rotated if its width is greater than the available supported resolution height.</li> </ul>
	View the photo in full mode or original mode.
<b>Q.MENU</b> Option	Popup <b>Option</b> menu. See "Options for Photo List".
 Hide	Hide the menu on the full-sized screen. <ul style="list-style-type: none"> <li>To see the menu again on the full-sized screen, press <b>OK</b> button to display.</li> </ul>
Exit	Return to <b>Photo List</b> .

### Options for Photo List

- 1 Press **Q.MENU**.  
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to the option and press **OK**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **OK**.

#### Set Photo View.

Option	Description
<b>Slide Speed</b>	Selects a slideshow speed (Fast, Medium, Slow).
<b>BGM</b>	Selects a music folder for the background music. Select Repeat or Random option. <ul style="list-style-type: none"> <li>You cannot change the music folder while the background music is playing.</li> </ul>

#### Set Video Play.

Allows you to change Video presets (Refer to "PICTURE Settings" on page 37).

#### Set Audio.

Allows you to change Audio presets (Refer to "AUDIO Settings" on page 42)

## MUSIC LIST

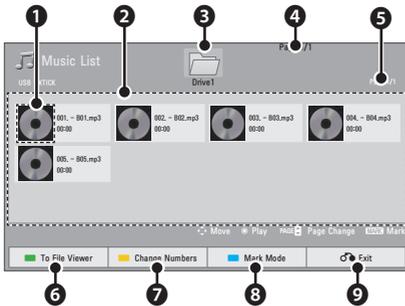
\* You can use the Music List menu to play MP3 files from a USB storage device.

### Music Supported File Formats

- MUSIC (\*.MP3) supporting file  
 Bit rate range 32 Kbps - 320 Kbps
- Sampling rate MPEG1 Layer3 : 32kHz, 44.1kHz, 48kHz
  - Sampling rate MPEG2 Layer3 : 16kHz, 22.05kHz, 24kHz

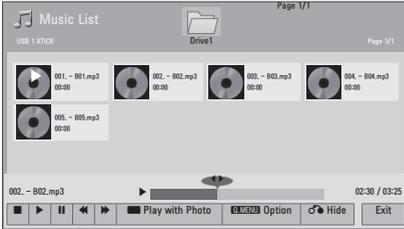
### Browsing Music List

- 1 Connect a USB storage device.
- 2 Press **USB** to access the Home menu.
- 3 Press the Navigation buttons to scroll to **Music List** and press **OK**.
- 4 Press the Navigation buttons to scroll to the device you want and press **OK**.
- 5 Press Navigation buttons to select a folder or file you want and press **OK**.



No.	Description	
1	Thumbnail	
	Abnormal files	
	Non-supported files	
2	Contents List	
3	Moves to upper level folder	
4	Current page/Total pages of folders	
5	Current page/Total pages of contents	
6	Move to <b>File Viewer</b> .	
7	Changes the number or thumbnails displayed at a time.	
8	Allows you to mark certain files. Select files you want and press <b>Color buttons</b> .	
	Play Marked	Press <b>Red</b> . Play the selected songs...
	Mark All	Press <b>Green</b> . Mark all files in the folder.
	Unmark All	Press <b>Yellow</b> . Deselect all marked files.
	Exit Mark Mode	Press <b>Blue</b> . Enter or exit the Mark Mode.
9	Exit.	

6 Control playback by using the following buttons.



Option	Description
<, >	A cursor indicating the position can be played.
■	Stop playback.
▶	Return to normal playback.
	Paused playback.
◀▶	Select the previous or next song.
Play with Photo	Start playing the selected songs and then move to the <b>Photo List</b> .
Q.MENU Option	Popup <b>Option</b> menu.
Hide	Hide the menu on screen. <ul style="list-style-type: none"> <li>To see the menu again on the full-sized screen, press <b>OK</b> button to display.</li> </ul>
Exit	Return to <b>Music List</b> .

### Options for Music List

- 1 Press **Q.MENU**.  
A pop-up window will appear.
- 2 Press the Navigation buttons to scroll to the option and press **OK**.
- 3 Press the Navigation buttons to scroll to one of the following options and press **OK**.

### Set Audio Play.

Select Repeat or Random option.

### Set Audio.

Allows you to change Audio presets (Refer to "AUDIO Settings" on page 42)

## FILE VIEWER

### Supported File Formats

Supported File : XLS, DOC, PPT, TXT, XLSX, PPTX, DOCX, PDF

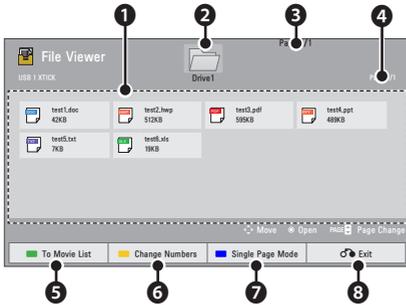
Microsoft Office Version 97 / 2000 / 2002 / 2003 / 2007

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

- File Viewer realigns the document, so it may look different than when viewed on a PC.
- For the documents that include images, the resolution may look lower during the realigning process.
- If the document volume is big or it has many pages, loading may take a long time.
- Unsupported fonts may be replaced with other fonts.

### Browsing File Viewer

- 1 Connect a USB storage device.
- 2 Press **USB** to access the Home menu.
- 3 Press the Navigation buttons to scroll to **File Viewer** and press **OK**.
- 4 Press the Navigation buttons to scroll to the device you want and press **OK**.
- 5 Press Navigation buttons to select a folder or file you want and press **OK**.



No.	Description	
1	Contents List	
2	Moves to upper level folder	
3	Current page/Total pages of folders	
4	Current page/Total pages of contents	
5	Move to <b>Movie List</b> .	
6	Changes the number or thumbnails displayed at a time.	
7	<b>Single Page Mode</b>	Loads and displays pages one by one. The initial loading time is short but a content-heavy page may be displayed slowly.
	<b>Full Document Mode</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.
8	Exit.	

6 Control playback by using the following buttons.

- Press **Page** to move the previous or next page.
- Press **VOL** to Zoom in or zoom out.
- 1. Press **Menu**.
- 2. Press the Navigation buttons to scroll to **Go page** or **Zoom** press **^**.

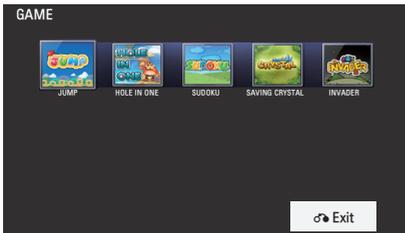


Option	Description
<b>Go Page</b>	Move to a desired page. Press the navigation or Number buttons select a desired page and press <b>OK</b> .
<b>Zoom</b>	Zoom in or zoom out. Press the navigation buttons select a desired page and press <b>OK</b> .
<b>Hide</b>	Close the menu. <ul style="list-style-type: none"> <li>• To see the menu again on the full-sized screen, press <b>MENU</b> to display.</li> </ul>

## PLAY GAME

Allows you to enjoy the games installed on the projector.

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **GAME** and press **OK**.



- 3 When you are finished, press **BACK**.

# CUSTOMIZING SETTINGS

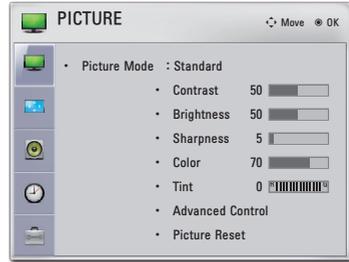
## The SETUP Menu

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **OK**.

	Menu	Description
	PICTURE	Adjusts the image quality or effect.
	SCREEN	Adjusts the screen mode, size, or keystone.
	AUDIO	Adjusts the sound quality, effect, or volume level.
	TIME	Sets the timer feature.
	OPTION	Customizes the general settings.
	INPUT	Select the desired input source.
	MY MEDIA	Access the photo, music, movie, or file lists and browse files.
	GAME	Allows you to enjoy the games installed on the Projector.

## PICTURE Settings

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **BACK**.



The available picture settings are described in the following.

Setting	Description
<b>Picture Mode</b>	Selects one of the preset image or customizes options in each mode for the best screen performance. You are also able to customize advanced options of each mode. You can also use this function through the <b>PICTURE</b> button.
<b>Mode</b>	
<b>Vivid</b>	Adjusts the video image for the retail environment by enhancing the contrast, brightness, color, and sharpness.
<b>Standard</b>	Adjusts the image for the normal environment.
<b>Cinema</b>	Optimizes video image for a cinematic look to enjoy movies as if you are in a movie theater.
<b>Sport</b>	Optimizes the video image for high and dynamic actions by emphasizing primary colors such as white, grass, or sky blue.
<b>Game</b>	Optimizes the video image for a fast gaming screen for PCs or games.
<b>Expert</b>	Adjusts the detailed video image settings for video experts as well as general viewers.
<b>Contrast</b>	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
<b>Brightness</b>	Adjusts the base level of the signal in the picture.
<b>Sharpness</b>	Adjusts the level of sharpness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.

Setting	Description
Color	Adjusts intensity of all colors.
Tint	Adjusts the balance between red and green levels.
Advanced Control or Expert Control	Customizes the advanced options.
Picture Reset	Restores the options of each mode to the factory default.

## Advanced / Expert Control Options

Setting	Description
<b>Dynamic Contrast</b>	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
<b>Dynamic Color</b>	Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
<b>Clear White</b>	Make the white area of screen brighter and more white.
<b>Skin color</b>	It detects the skin area of video and adjusts it to express a natural skin color.
<b>Noise Reduction</b>	Reduces screen noise without compromising video quality.
<b>Digital Noise Reduction</b>	Removes noise caused by compressing video.
<b>Gamma</b>	<ul style="list-style-type: none"> <li>• <b>Low:</b> Make dark and middle gray level area of the picture brighter.</li> <li>• <b>Medium:</b> Express original picture levels.</li> <li>• <b>High:</b> Make dark and middle gray level area of the picture darker.</li> </ul> <p>You can adjust brightness of dark area and middle gray level area of the picture.</p>
<b>Black Level</b>	<ul style="list-style-type: none"> <li>• <b>Low:</b> The reflection of the screen gets darker.</li> <li>• <b>High:</b> The reflection of the screen gets brighter.</li> </ul> <p>Set black level of the screen to proper level. This option is disabled in <b>RGB-PC</b> mode.</p>
<b>Real Cinema</b>	Makes video clips recorded in film look more natural by eliminating judder effect.
<b>Color Gamut</b>	<ul style="list-style-type: none"> <li>• <b>Standard:</b> Displays standard color area.</li> <li>• <b>Wide:</b> Mode to use and set the rich color area of the display.</li> </ul> <p>Maximize the utilization of color to increase color quality.</p>
<b>Edge Enhancer</b>	Show clearer and distinctive yet natural corners of the video.
<b>xvYCC</b>	<p>This feature represents rich color as much as conventional video signal.</p> <p>This function is enabled in "<b>Picture mode - Cinema, Expert</b>" when a <b>xvYCC</b> signal is inputted through HDMI.</p>
<b>Expert Pattern</b>	This is a pattern used for expert adjustment.

Setting	Description
<p><b>Color Filter</b></p>	<p>This function filters specific colors in the video.</p> <p>You can use the RGB filter to set color saturation and hue accurately.</p>
<p><b>Color Temperature</b></p>	<p>This is the function to adjust the overall color of the screen to the feeling you want.</p> <p>Select <b>Cool, Medium, Warm</b>. When <b>Expert</b> mode, customizes the options of each mode.</p> <p><b>Gamma:</b> Select <b>1.9, 2.2, 2.4</b></p> <p>a. <b>Method: 2 Points</b></p> <ul style="list-style-type: none"> <li>- <b>Pattern: Inner, Outer</b></li> <li>- <b>Red/Green/Blue Contrast, Red/Green/Blue Brightness:</b> The adjustment range is <b>-50 - +50</b>.</li> </ul> <p>b. <b>Method: 10 Points IRE</b></p> <ul style="list-style-type: none"> <li>- <b>Pattern: Inner, Outer</b></li> <li>- <b>IRE</b> (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among <b>10, 20, 30 - 90, 100</b>. You can adjust Red, Green or Blue according to each setting.</li> <li>- <b>Luminance:</b> This function displays calculated luminance value for <b>2.2</b> gamma. You can input luminance value you want at <b>100 IRE</b>, than the target luminance value for <b>2.2</b> gamma is displayed at every 10 steps from <b>10 IRE</b> to <b>90 IRE</b>.</li> <li>- <b>Red/Green/Blue:</b> The adjustment range is <b>-50 - +50</b>.</li> </ul>
<p><b>Color Management System</b></p>	<p>As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Mgt/Yellow).</p> <p>Color difference may not be distinctive even when you make the adjustments for the general video.</p> <p>Adjusts Red/Green/Blue/Yellow/Cyan, Magenta.</p> <ul style="list-style-type: none"> <li>- <b>Red/Green/Blue/Yellow/Cyan, Magenta Color:</b> The adjustment range is <b>-30 - +30</b>.</li> <li>- <b>Red/Green/Blue/Yellow/Cyan, Magenta Tint:</b> The adjustment range is <b>-30 - +30</b>.</li> </ul>

# SCREEN Settings

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **SCREEN** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **BACK**.



The available screen settings are described in the following.

Setting	Description	
<b>PJT Mode</b>	This function turns the projected image upside down or flips it horizontal. Select <b>Rear</b> when projecting from the back of the transparent screen purchased separately. Select <b>Ceiling</b> when installing the product on the ceiling. When <b>PJT Mode</b> is <b>Rear/Front Ceiling</b> , the left/right of the speaker changes automatically.	
<b>Aspect Ratio</b>	Changes the image size to view images at its optimal size. (See p.18)	
<b>Keystone</b>	Use this function when the screen is not at a right angle to the projector and the image is a trapezoid shape. (See p.19)	
<b>RGB Config.</b>	Customizes the PC display options.	
	<b>Option</b>	
	<b>Resolution</b>	Selects a proper resolution when your PC uses 768 resolution (1024x768/1280x768/1360x768, 60Hz) and 1050 resolution (1400x1050/ 1680x1050, 60Hz).
	<b>Auto Config.</b>	Sets the projector to optimize the options automatically for the projector display. You can also use this function through the <b>AUTO</b> button.
	<b>Position</b>	Locates the image at the proper position.
	<b>Size</b>	Adjusts the image size.
	<b>Phase</b>	Eliminates horizontal streaking.
<b>Reset</b>	Restores the options to the default setting.	

## AUDIO Settings

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **BACK**.



The available audio settings are described in the following.

Setting	Description
<b>Volume</b>	Adjusts the volume level. You can also use this function through the <b>VOL</b> button.
<b>Balance</b>	Adjust the left/right sound of speaker to suit your taste and room situations.
<b>Treble</b>	Adjust the treble to suit your taste and room situations.

## TIME Settings

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **TIME** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **BACK**.



The available time settings are described in the following.

Setting	Description
<b>Sleep Timer</b>	Sets the length of time until the projector to turns off. When you turn the projector off and turn it on again, the Sleep timer feature will be set to off.
<b>Auto Off</b>	This function turns the projector off automatically after the preset time is passed when there is no signal.

# OPTION Settings

- 1 Press **Menu** to access the menu.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **BACK**.

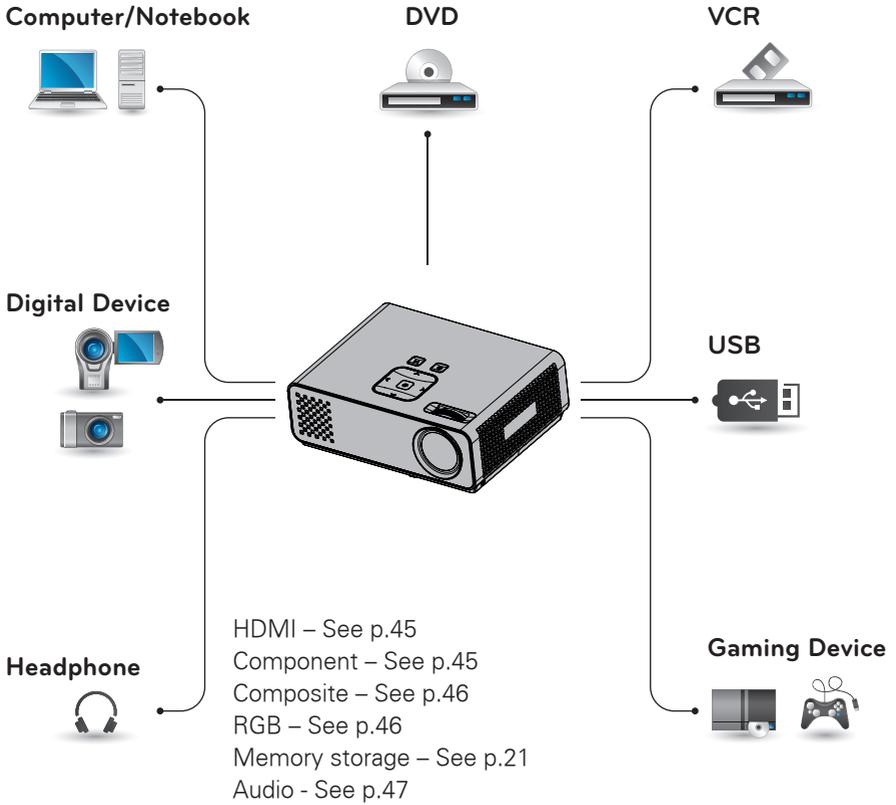


The available option settings are described in the following.

Setting	Description			
<b>Language</b>	Selects a desired Menu Language.			
<b>Blank Image</b>	You can choose the background color to the selected Blank function.(See p.20)			
<b>LED Mode</b>	To adjust the brightness of the screen. <b>LED Mode</b> changes into Dimming mode automatically if use a portable battery. <b>LED Mode</b> changes into Dimming mode automatically if there is no input signal. You can also use this function through the <b>Q.MENU</b> button.			
<b>Auto Power</b>	To make projector turned on automatically when the plug of adapter is inserted.			
	<b>Option</b>			
	<table border="1"> <tr> <td><b>On</b></td> <td>When connect DC plug to the projector, projector turns on automatically.</td> </tr> <tr> <td><b>Off</b></td> <td>When connect DC plug to the projector, projector enters standby state.</td> </tr> </table>	<b>On</b>	When connect DC plug to the projector, projector turns on automatically.	<b>Off</b>
<b>On</b>	When connect DC plug to the projector, projector turns on automatically.			
<b>Off</b>	When connect DC plug to the projector, projector enters standby state.			

# MAKING CONNECTIONS

Connect various external devices to the ports on the projector.

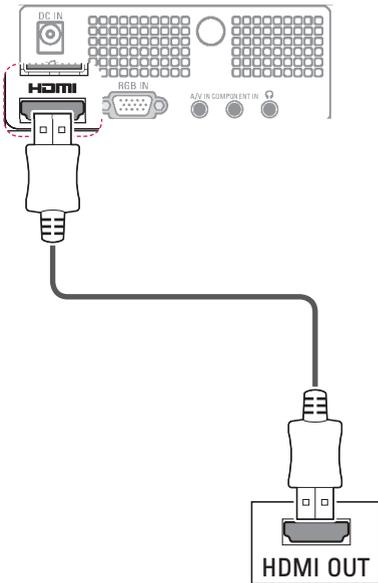


## Connecting to a HD receiver, DVD, or VCR player

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

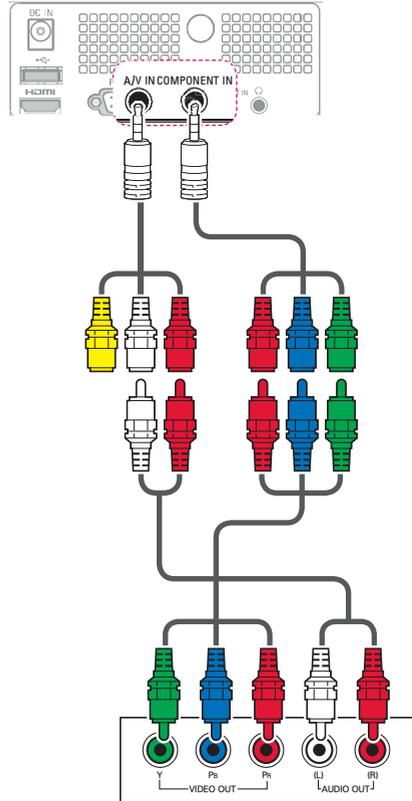
### HDMI Connection

Transmits the digital video and audio signals from an external device to the projector. Connect the external device and the projector with the HDMI cable as shown in the following illustration.



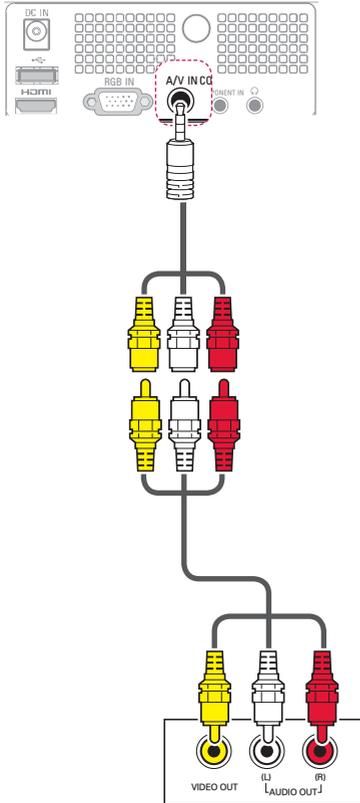
### Component Connection

Transmits the analog video and audio signals from an external device to the projector. Connect the external device and the projector with the component cable as shown in the following illustration.



## Composite Connection

Transmits the analog video and audio signals from an external device to the projector. Connect the external device and the projector with the composite cable as shown in the following illustration.



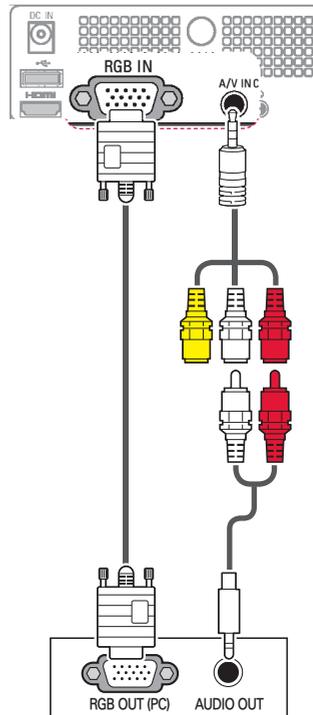
## Connecting to a PC

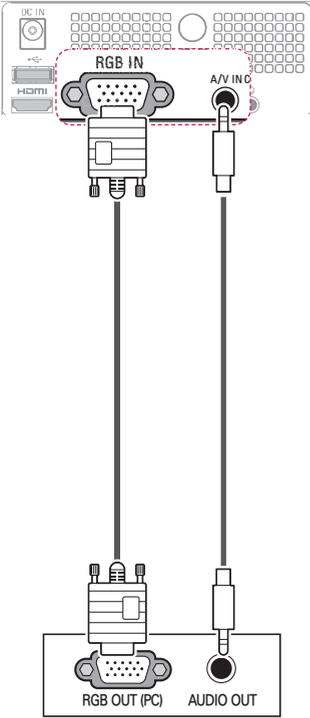
This projector supports the Plug & Play. A PC will automatically recognize the projector and requires no driver to be installed.

## RGB Connection

Transmits the analog video signal from your PC to the projector. Connect the PC and the projector with the D-sub 15 pin signal cable as shown in the following illustrations.

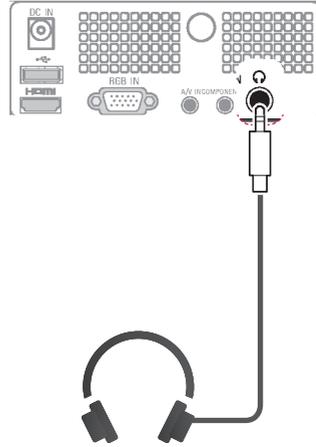
To transmit an audio signal, connect a 3-pole audio cable from PC to the projector.





## Connecting to a Headphone

Listen to the sound through a headphone.



# MAINTENANCE

Update and clean your projector regularly to keep the best performance and to extend the product lifespan.

## Cleaning the Projector

### Cleaning the lens

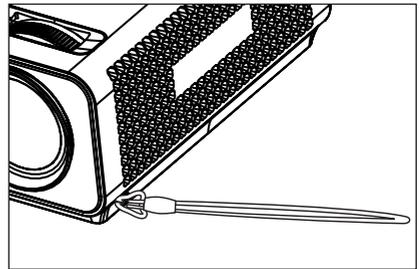
Use an air spray or cleaning cloth for product exterior, provided with the product, to lightly clean the product. Please use a recommended air spray or lens cleaning product. To clean lens, small amount of cleaning agent on a swab or a soft cloth and rub on the lens. Please be aware that liquid may flow pass through the lens if the product is sprayed on lens directly.

### Cleaning the Projector Case

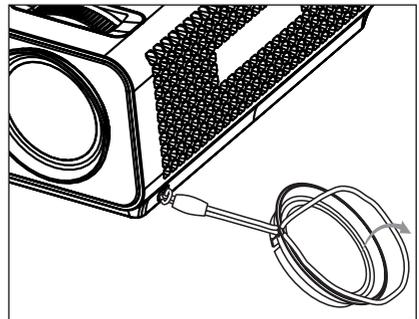
To clean the projector case, first unplug the power cable. To remove dirt or dust, wipe the casing with polish cloth provided. When you want to remove the dust or stain on the lens, use the cloth for product exterior, provided with the product. Do not use alcohol, benzene, thinners or other chemical detergents as these can cause the casing to be warped or discolored.

## How to Fix the Lens Cap

- 1 Prepare the lens cap and the strap supplied as accessories.
- 2 Insert the end of the strap into the hole at the bottom of the lens section of the projector.



- 3 Fix the strap at the hole of the projector into the hole of the lens cap, and then pass the lens cap through the strp lasso.



# SPECIFICATIONS

MODEL	HW300G(HW300G-JE) HW301G(HW301G-JE)	
Resolution (Pixel)	1280 (Horizontal) × 800 (Vertical)	
Ratio	16:10 (Horizontal:Vertical)	
Panel size (mm)	11.623	
Projection distance (Screen size)	0.59 m - 3.00 m (50.8 cm - 254.0 cm)	
Projection Offset	100 %	
Remote control distance	6 m	
Video compatibility	NTSC/PAL/PAL-M/PAL-N/PAL-60	
AC-DC Adapter	19.5 V  , 5.64 A	
Audio Output	1 W + 1 W	
Height (mm)	54.0 (without foot), 57.0 (with foot)	
Width (mm)	160.0	
Length (mm)	119.5	
Weight (g)	780	
USB Device	5 V, 0.5 A (max)	
Operating Condition	Temperature	
	In operation	0°C - 40°C
	In storage and transit	-20°C - 60°C
	Humidity (relative humidity)	
	In operation	0 % - 80%
	Not in operation	0 % - 85%

**RGB-PC supported mode**

Format	Vertical Freq. (Hz)	Horizontal Freq.(kHz)
640X350	70.090	31.468
720X400	70.080	31.469
640X480	59.940	31.469
800X600	60.310	37.879
1024X768	60.000	48.363
1152X864	60.053	54.348
1280X768	59.870	47.776
1280X800	60.000	49.680
1360X768	60.015	47.712
1280X1024	60.020	63.981
1400X1050	59.979	65.317
1680X1050	60.000	65.300

- If the projector does not support the input signal, "Invalid Format" message appears on the screen.
- The projector supports DDC1/2B type as Plug & Play. (Auto recognition of PC monitor)
- PC synchronization signal types supported: Separate type synchronization.
- To get the the best picture quality, adjust the PC graphics card to 1280x800.

**OPEN SOURCE LICENSE**

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.



The model and serial number of the projector is located on the back or one side of the projector. Record it below should you ever need service.

MODEL \_\_\_\_\_

SERIAL \_\_\_\_\_