



Please read the safety information carefully before using the product.

PA1000T

LICENSE

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DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274.



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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



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

SAFETY INSTRUCTIONS

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

· Safety precautions are given in two forms, i.e. Warning and Caution as detailed below.

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

CAUTION: Failure to follow the instructions may cause injury to persons or damage to the product.

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









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.
- Prevent dust from collecting on the power plug pins or outlet.
 - This may result in fire.

 To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.

A CAUTION

- Hold the plug firmly when unplugging.
 - A damaged wire may create a fire hazard.
- Ensure the power cord and plug are not damaged, modified, severely bent, twisted, pulled, sandwiched or hot. Do not use the product if the power outlet is loose.
 - This may result in fire or electric shock.
- Keep the power cord away from heating devices.
 - The wire's sheath may melt, which may result in fire or electric shock.
- Place the projector where people will not trip over or tread on the power cord to protect the power cord and plug from any damage.
 - This may result in fire or electric shock.
- Do not turn the projector on or off by plugging in the power plug or unplugging it from the power outlet. (Do not use the power plug as a switch.)
 - This may result in electric shock or damage to the product.

- Do not insert a conductor into the other side of the wall outlet while the power plug is inserted into the wall outlet.
 - In addition, do not touch the power plug immediately after it is disconnected from the wall outlet.
 - This may result in electric shock.
- Only use the official power cord provided by LG Electronics. Do not use other power cords.
 - This may result in fire or electric shock.

When in Use

WARNING

- Do not place anything containing liquid on top of the projector such as a vase, flower pot, cup, cosmetics, or medicine: or ornaments, candles, etc.
 - This may result in fire or electric shock, or cause injury due to falling.
- In the event that there is a heavy impact or the cabinet is damaged, switch it off, unplug it from the power outlet and contact an authorized service centre.
 - This may result in electric shock.
- Do not insert pieces of metal such as coins, hairpins or metal debris, nor flammable materials such as paper or matches into the projector.
 - This is to prevent electric shock or fire.
- In the event that liquid or a foreign object falls into the projector, switch it off and unplug it from the power outlet and contact our service centre.
 - This may result in fire or electric shock.

- Make sure that a child does not swallow the batteries when you replace the old remote control batteries with new ones. Keep batteries out of reach of children.
 - If a child swallows a battery, consult a doctor immediately.
- Never open any cover on the projector.
 - There is a high risk of electric shock.
- Do not look directly into the lens when the projector is in use.
 - The bright light may damage your eyes.
- When the lamp is on or has just been turned off, avoid touching the air vent or lamp, because these will be very hot.
- If there is a gas leak in the room with the projector, do not touch the projector or power outlet. Open the windows for ventilation.
 - Sparks may cause fire or burns.
- Unplug the power cord from the outlet during a lightning storm.
 - This will prevent shock or damage to the projector.
- Do not use the projector near electronic devices that generate a strong magnetic field.
- Do not put the plastic package used to pack the projector around your head.
 - This may cause suffocation.
- Do not keep your hand on the projector for a long time when it is running.

- When you play a game by connecting a game console to a projector, it is recommended that you maintain a distance of more than four times the diagonal length of the screen.
 - Make sure that the connecting cable is long enough. Otherwise, the product may fall causing personal injury or damage to the product.
- Do not place the projector or its remote control with battery in an extremely high temperature environment.
 - This may result in fire.
- Do not use 3D glasses if you do not watch 3D.

CAUTION

- Do not place heavy objects on the projector.
 - It may fall down and cause personal injury.
- Be careful not to allow any impact to the lens during transport.
- Do not touch the lens of the projector.
 The lens may be damaged.
- Do not use any sharp tools on the projector such as a knife or hammer, because this may damage the casing.
- In the event that no image appears on the screen or no sound is heard, stop using the projector. Switch off the projector, unplug it from the power outlet and contact our service centre.
 - This may result in fire or electric shock.

- Do not drop anything onto the projector or allow anything to bang into the projector.
 - This may cause damage to the projector or personal injury.
- It is recommended that you maintain a distance of more than 5 to 7 times the diagonal length of the screen.
 - If you watch the screen at a close distance for a long time, your eye sight may become worse.
- Do not block the light beam emitted from the projector using a book or other object.
 - Lengthy exposure to the projector beam may result in fire. In addition, the lens may be overheated and damaged by the reflected heat.
- Do not start the projector with the volume turned up high.
 - High volume may damage hearing.
- Do not use high voltage electrical equipment near the projector, (e.g. bug zapper). This may result in product malfunction.

Cleaning

WARNING

- Do not spray the projector with water when cleaning. Make sure water does not flow into the projector.
 - This may result in fire or electric shock.

- When there is smoke or a strange smell coming out from the projector or a foreign object falls into the projector, switch it off and unplug it from the power outlet and contact our service centre.
 - 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 centre once a year to clean the internal parts of the projector.
 - If you do not clean the projector for a long period of time, dust will accumulate, which may result in fire or damage to the projector.
- When cleaning plastic parts such as the projector case, unplug the power first and wipe with a soft cloth. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, automobile or industrial shiner, abrasives, wax, benzene, or alcohol as these can damage the projector.
 - This can result in fire, electric shock or cause damage to the product (deformation and corrosion).
- Remove the plug from the outlet before cleaning the product.
 - Otherwise, this may result in electric shock.

ANTENNA

- If you are using an outdoor antenna, please install it away from electrical wires to make sure it does not touch any nearby wires even when it falls down due to heavy wind.
 - Failure to do so may cause electric shock or physical injury.
- To prevent any raindrops flow into the product, bend the outdoor antenna wire where it comes indoors.
 - Raindrops flowing into the product may cause fire or electric shock.

Others

WARNING

- Some users may experience a seizure or other abnormal symptoms when they are exposed to a flashing light or particular patterns from a video game.
- When you go out, place the projector out of reach of animals, and remove the power plug from the wall outlet.
 - Using a damaged power cord may result in short circuit or fire.
- Do not use the projector near highprecision electronic devices or those that transmit weak radio signal.
 - This may affect the operation of the product, causing an accident.
- Only a qualified technician can disassemble or modify the projector.
 For diagnosis, adjustment, or repair, contact your seller or our service centre.
 - This may result in fire or electric shock.

- Do not stare directly into lens when in operation, eye damage can occur.
- No user serviceable parts inside unit.
 High voltage parts can cause shock and even electrocution.
- Proper ventilation required, do not block airflow around unit. Doing so can cause injury and internal overheating.
- Do not touch the lens; doing so can result in burns or damage to lens.
 Lens and unit may be HOT during and immediately after use. Use caution when handling unit, allowing for proper cool down.
- · Only use a grounded electrical outlet.
- Do not insert anything into or cover up the exhaust vents.
 - This may result in fire or electric shock.
- Follow all maintenance guidelines for optimal use; service only at an authorized service centre.

A CAUTION

- Do not mix new batteries with old ones.
 - Burst or leaking batteries may result in damage or injury.
- Be sure to unplug if the projector is not to be used for a long period.
 - Accumulated dust may result in fire or electric shock due to overheating, ignition, or poor insulation.
- Only use the specified type of battery.
 Burst or leaking batteries may result in damage or injury.
- · Dispose of used batteries properly.
 - This may result in explosion or fire.
 The correct method of disposal may vary depending on your country or region. Dispose of the battery pack as instructed.
- Do not throw or disassemble the battery.
 - This may result in fire or explosion due to damage to the battery.
- Always use batteries approved and certified by LG Electronics.
 - This will prevent damage or fire.
- Store batteries away from metallic objects, such as keys and paper clips.
 - Excess current may cause a rapid increase in temperature, resulting in fire or burns.
- Do not store the batteries near any heat source, such as a heater.
 - This may result in fire or damage to the product.
- Do not store batteries at temperatures higher than 60 °C or in high humidity.
 - This may result in explosion or fire.

- Keep the batteries and remote out of reach of children.
 - This will prevent personal injury or damage to the product.
- Make sure that the battery is installed correctly.
 - This prevent explosion or fire.
- The battery contains lithium-ion, so it must be handled with care.
 - This may result in explosion or fire.
- Make sure you use the same type of batteries for replacement.
- Incorrect battery replacement may cause fire.

Risk Group 2

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

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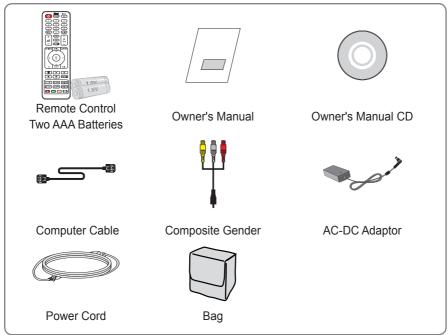
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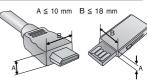
PREPARATION

Accessories

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



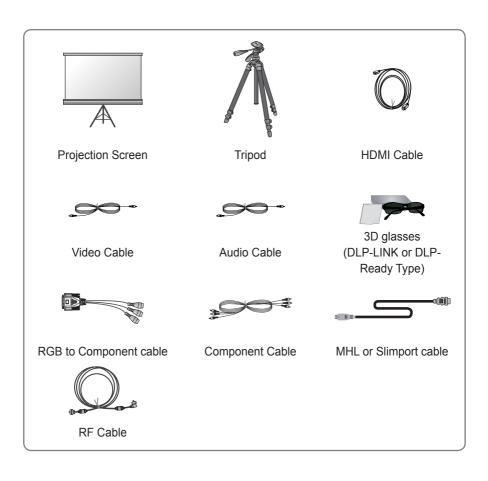
 When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm or less and a height of 10 mm or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.



- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI cable types)
 - High-Speed HDMI®/™ Cable
 - High-Speed HDMI[®]/™ Cable with Ethernet

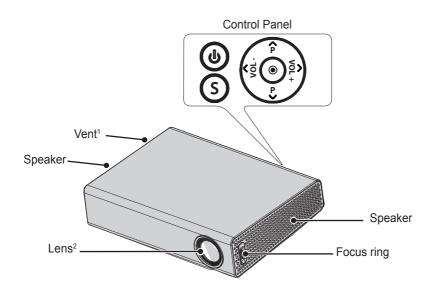
Optional Extras

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



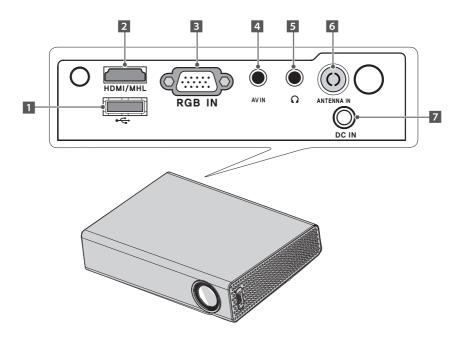
Parts and Components

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



Button	Description	
(POWER)	Turns the projector on or off.	
③ (SETTINGS)	Displays or closes the Settings menu.	
P ∧, ∨	Changes the programme or sets the features.	
(PROGRAMME)		
VOL -, +	Adjusts the volume level.	
∧, ∨, <, >	Sets the function or moves the cursor.	
⊚ (OK)	Shows the current mode and saves changes to the settings.	

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



- 2 HDMI/MHL Port
- 3 RGB IN Port
- 4 AV IN Port

- **5** Ω (Headphone Port)
- 6 ANTENNA IN Port
- 7 DC IN Port

Installation

Installation Precautions

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

Do not place anything near the projector as this may block its air vents. If the air vents are blocked, the internal temperature will increase.



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



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



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

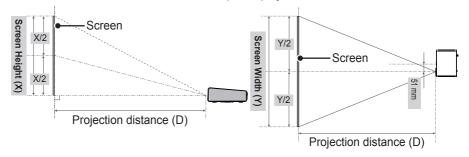


- Do not place the projector in a hot or humid environment.
 - Do not place the projector in a hot, cold, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
 - This may result in fire.
- Never open any cover on the projector. There is a high risk of electric shock.
- The projector is manufactured using high-precision technology. You may, however, see tiny black dots and/ or bright coloured dots (red, blue or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.
- The remote control may not work in an environment where a lamp equipped with electronic ballasts or a three-wavelength fluorescent lamp is installed. Replace the lamp with an international standard lamp for the remote control to work normally.
- To install to the ceiling, attach the ceiling-type bracket to the projector with M4 x 8 mm screws.

Projection Distance per Screen Size

- 1 Place the projector on a sturdy, level surface, together with the PC or audio/video source.
- 2 Place the projector an appropriate distance away from the screen. The distance between the projector and the screen determines the actual size of the image.
- 3 Position the projector so that the lens is at a right angle to the screen. If the projector is not at a right angle, the projected image will look distorted. To correct the distortion, use the Keystone function. (see page 27)
- 4 Connect the power cord of the projector and the connected device to the wall outlet.

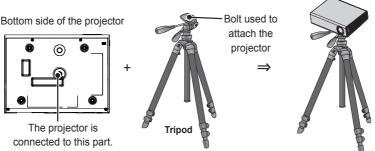
 Ratio of upward projection: 100 %



16:10 Ratio			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (D) (mm)
762	646	404	902
889	754	471	1056
1016	861	539	1210
1143	969	606	1366
1270	1077	673	1520
1397	1185	741	1674
1524	1292	808	1828
1651	1400	875	1983
1778	1508	943	2137
1905	1615	1010	2291
2032	1723	1077	2445
2159	1831	1145	2601
2286	1938	1212	2755
2413	2046	1279	2909
2540	2154	1347	3063

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.)





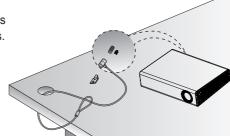
CAUTION

- 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

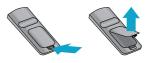
- This projector has a Kensington Security Standard connector. Connect a Kensington Security System cable as shown below.
- For more information on installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
- · The Kensington Security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



REMOTE CONTROL

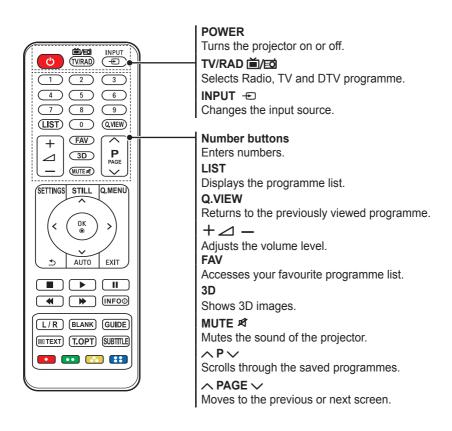
Open the lid at the back of the remote control and insert the batteries as described in the $\oplus \ominus$ instructions. Use new batteries and do not mix regular or rechargeable batteries. (1.5 V AAA)

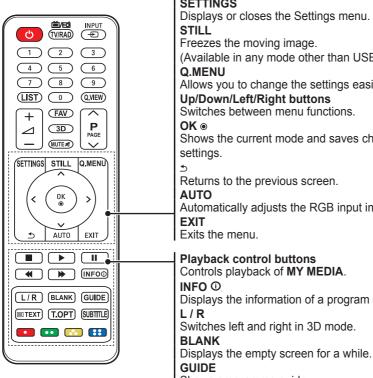




CAUTION

· Do not mix new batteries with old ones.





SETTINGS

Displays or closes the Settings menu.

(Available in any mode other than USB mode.)

Allows you to change the settings easily.

Up/Down/Left/Right buttons

Switches between menu functions.

Shows the current mode and saves changes to the

Automatically adjusts the RGB input image.

Controls playback of MY MEDIA.

Displays the information of a program or screen.

Switches left and right in 3D mode.

Shows programme guide.

■ TEXT / T.OPT (Teletext buttons)

These buttons are used for teletext

SUBTITLE

Recalls your preferred subtitle in digital mode.

Color buttons

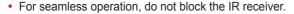
Sets detailed settings or gesture for each menu.



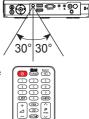
NOTE

• When using the remote control, the optimal operation range is 6 metres 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 metres or less (left/right) and within a 30 degree arc of the remote control IR receiver.



 When you carry the remote control in the portable bag, make sure that the buttons on the remote control are not pressed by the projector, cables, documents or any other accessories in the bag. Otherwise, it may significantly reduce the battery life.



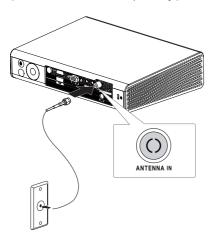
USING THE PROJECTOR

Connecting the Antenna or Cable

To watch TV using an indoor/outdoor antenna, connect a wall terminal and the **ANTENNA IN** port of the projector using an RF cable (75 Ω).

You can watch public TV or cable (analog, digital) TV.

(The RF cable is sold separately.)



NOTE

- Ensure you use a standard coaxial cable (75 Ω, 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

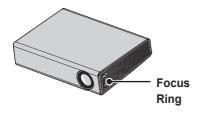
The menu screen display in this owner's manual is an example to help users understand how to operate the product and may look different from the actual screen.

- 1 Connect the power cord correctly.
- 2 After waiting for a moment, press the POWER button on the remote control or the control panel.
- 3 In the Language Selection screen, select a language.
- 4 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.

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



Watching Projector

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

Button	Description	
^P∨	Scrolls through the saved	
	programmes.	
LIST	Displays the programme	
	list.	
0 - 9	Enters a programme	
	number.	
+⊿-	Adjusts the volume level.	
MUTE	Mutes all sounds.	
Q.MENU	Accesses the quick	
	menu. (see page 29)	
Q.VIEW	Returns to the previously	
	viewed programme.	

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

To Set Programme

Image shown may differ from your projector.

Memorizing the Available Channels

Using the Auto Tuning function

This function allows your projector to memorize the available channels. Be sure to activate this function when you move home or move the position of your projector. The antenna must be connected to your projector and the channels must be currently available to use this function.

- 1 Press the **SETTINGS** button.
- 2 Press the ∧, √, <, or > button to select SETUP and press the OK button.
- 3 Press the ∧, ∨ button to select Auto Tuning and press the OK button.
- 4 Select Start to start automatic tuning. The projector scans and saves available programmes automatically.
- 5 When you are finished, press EXIT.

Memorizing or Deleting Channels Manually

- 1 Press the **SETTINGS** button.
- 2 Press the ∧, ∨, <, or > button to select SETUP and press the OK button.
- 3 Press the ∧, ∨ button to select Manual Tuning and press the OK button.
- 4 Scroll through the programme types, and then add or delete programmes.
- 5 When you are finished, press **EXIT**.



NOTE

- If the projector scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- You can store up to 1000 programmes. The number of programmes that you can store differs depending on the broadcasting signal environment.
- Auto Tuning memorizes the programmes that are currently being broadcast.
- The programmes are stored in the order of DTV and TV.

Editing Your Programme List

- 1 Press the **SETTINGS** button.
- 2 Press the ∧, √, <, or > button to select SETUP and press the OK button.
- 3 Press the ∧, ∨ button to select Programme Edit and press the OK button.
- 4 Edit programmes using the following buttons.

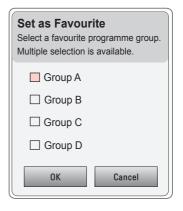


Button	Description	
Green	Selects a programme	
	number to be skipped.	
Yellow	Block or unblock a	
	programme.	
Blue	Programme Number	
	Edit(Only Digital mode)	
	Selects your desired	
	programme number.	
FAV	Adds a favourite	
	programme.	

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

Favourite Programme Setup

- 1 Press the **SETTINGS** button.
- 2 Press the ∧, √, <, or > button to select SETUP and press the OK button.
- 3 Press the ∧, ∨ button to select Programme Edit and press the OK button.
- 4 Move to your desired programme.
- 5 Press FAV to access the Set as Favourite.
- 6 Press the ∧, ∨ buttons to scrolls through programme group.
- 7 Press the **OK** button.



Additional Options

Adjusting Aspect Ratio

Select SETTINGS → PICTURE →
 Aspect Ratio to change the aspect ratio.



NOTE

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

Menu	Description	
16:9	Resizes images to the 16:9	
	ratio.	
Full	Changes to the full screen	
	regardless of the aspect	
	ratio.	
Just	Displays video images in	
Scan	the original size without	
	removing parts of the edge	
	of the image.	
	If you select Just Scan,	
	you may see image	
	noises at the edge or	
	edges of the screen.	
Original	When your projector	
	receives a wide screen	
	signal it will automatically	
	change to the picture format	
	broadcasted.	

Menu	Description	
Full	When projector receives the	
Wide	wide screen signal, it will	
	let you adjust the picture	
	horizontally or vertically,	
	in a linear proportion,to fill	
	the entire screen fully. 4:3	
	and 14:9 video is supported	
	in full screen without any	
	video distortion through	
	DTV input.	
	In Analogue/DTV/AV	
	mode, Full Wide is	
	available.	
4:3	Resizes images to the	
	previous standard 4:3.	
14:9	You can view a picture	
	format of 14:9 or a general	
	projector programme in the	
	14:9 mode. The 14:9 screen	
	is viewed in the same way	
	as in 4:3, but is moved up	
	or down.	
Zoom	Resizes the image to fit the	
	screen width. The top and	
	bottom parts of the image	
	may be cut off.	
	Press the < or > button to	
	zoom in or out of the image.	
	Press the \wedge or \vee button to	
	move the image.	
Cinema	Formats an image to the	
Zoom 1	cinemascope ratio, 2.35:1. It	
	ranges from 1 to 16.	
	Press the < or > button to	
	zoom in or out of the image.	
	Press the \(\rightarrow\) or \(\rightarrow\) button to	
	move the image.	
	If you enlarge or reduce	
	an image, the image may	
	be distorted.	

Using the Keystone Function

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

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



- 1 Select SETTINGS → OPTION 2 → Keystone 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, Antenna / 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 \(\lambda\), \(\lambda\), \(\lambda\), \(\lambda\), \(\lambda\), or \(\rangle\) 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 ∧ or ∨ button to scroll to one of the input sources.
- 4 Use the < or > button to select one of the input labels.

Blank Function

Using the Blank Function

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

- 1 Press the **BLANK** button, and the screen is covered by the background colour.
 - You can change the background colour by referring to **Selecting a Blank Image**.
- 2 Press any button to clear the blank function.

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

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

Selecting a Blank Image

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

Using the Quick Menu

You can customize frequently used menus.

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

Menu	Description	
Aspect	Resizes the picture.	
Ratio		
PJT Mode	Turns the projected image	
	upside down or flips it	
	horizontally.	
Picture	Changes the picture	
Mode	mode.	
Audio or	Changes the sound	
Audio	output.	
Language	e e	
Sleep	Sets the projector to be	
Timer	turned off at the specified	
	time.	
Clear	Makes the voice from the	
Voice II	projector crisp and clear.	
Skip Off/	Sets the Skip Off/On.	
On		
USB	Allows you to remove a	
Device	connected USB device in	
	a safe manner.	
	(The menu is displayed	
	only when the USB device	
	is connected.)	

3 Press the ∧, ∨ button to scroll through the following menus.

ENTERTAINMENT

Using SCREEN SHARE

- 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.



L 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.

MY MEDIA

Before Using

Connecting a USB Device

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



Removing a USB Device

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



NOTE

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

Tips for Using a USB Device

- If the USB storage device has a builtin auto recognition programme or uses its own driver, it may not work.
- Some USB storage devices may not work or may work incorrectly.
- If you use a USB extension cable, the USB device may not be recognized or may not work properly.
- Use only USB storage devices formatted with the Windows FAT32 or NTFS file system.
- For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA
- It is recommended to use a Hard Disk Drive with its own power supply. (If the power being supplied is not sufficient, the USB storage device may not be detected correctly.) Note, a USB Hub is not supported.
- It is recommended that you use USB flash drives of 32 GB or less and USB HDDs of 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

- 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 640x480 @ 30p)

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

Audio File

File type	Item	Info
MDO	Bit rate	32 kbps to 320 kbps
MP3	Sampling rate	32 kHz to 48 kHz
AC3	Bit rate	32 kbps to 640 kbps
ACS	Sampling rate	32 kHz, 44.1 kHz, 48 kHz
MPEG	Bit rate	32 kbps to 448 kbps
IVIPEG	Sampling rate	32 kHz to 48 kHz
AAC, Bit rate	Bit rate	24 kbps to 3844 kbps
HEAAC	Sampling rate	8 kHz to 96 kHz
CDDA	Bit rate	1.44 kbps
CDDA	Sampling rate	44.1 kHz
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.

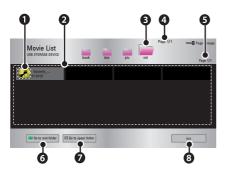
Tips for Playing Video Files

- 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 **SETTINGS** button.
- 3 Use the ∧, √, <, or > button to select MY MEDIA and press the OK button.
- **4** Use the ≤, or ≥ button to select **Movie List** and press the **OK** button.
- 5 Use the \land , \lor , \lt , or \gt button to select the file you want and press the **OK** button.



	Descriptio	n
0	Thumbnails	
	Abnormal file	
	File not supported	
2	File List	
8	Moves to the upper le	vel folder.
4	Current page/Total no.	of folder
	pages	
6	Current page/Total no.	of file
	pages	
6	Moves to the top level	folder.

		Description	
	7	Moves to the upper level folder.	
ĺ	8	Exit Movie List.	

6 Control playback by using the following buttons.



Setting	Description	
♦ ▶	Shows the current playing	
	position. Use \leq , $>$ buttons	
	to move forward or backward.	
	Stops playing and returns to	
	Movie List.	
•	Returns to normal playback.	
II	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	
eØ	You can use the Energy	
	Saving mode.	
Option	A pop-up window will appear.	
Hide	Hides the playback bar.	
	Press the OK button to make	
	it appear.	
Exit	Returns to the Movie List	
	screen.	

Options for Movie List

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

Set Video Play.

Setting	Description
Picture	Selects the size of a
Size	playback screen.
	Full: Files are played in full screen mode according to the aspect ratio of video.
	Original : Displays the video in the original size.
Audio	Allows you to select the
Language	language you want for
	the file with multiple audio
	tracks. This option is not
	available if the file has
	only one audio track.

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

Subtitle Language

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

Set Video.

You can change video settings. (Refer to "PICTURE Settings" 55)

Set Audio.

You can change audio settings. (Refer to "AUDIO Settings" 60)

Registering the DivX code

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

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

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



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



3 Check the DivX Registration code.



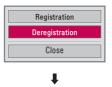
NOTE -

- 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

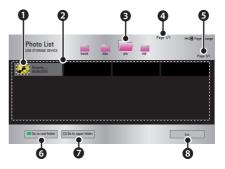
8640-pixel (height)

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 highresolution images in full screen.

Browsing Photo List

- 1 Connect a USB storage device.
- 2 Press the SETTINGS button.
- 3 Use the ∧, √, <, or > button to select MY MEDIA and press the OK button.
- 4 Use the <, or > button to select Photo List and press the OK button.
- 5 Use the ∧, √, <, or > button to select the file you want and press the **OK** button.



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

Control playback by using the following buttons.



Setting	Description
••	Selects the previous or
	next photo.
Slideshow	All photos are displayed
	during slide show.
	Set Slide Speed in the
	Option → Set Photo
	View. menu.
BGM	You can listen to music
	while viewing photos in
	full size.
	Set BGM in the
	Option → Set Photo
	View. menu.
บ	Rotates photos.
	Rotates a photo 90°,
	180°, 270°, 360°
	clockwise.
	Photos cannot be
	rotated if their width is
	greater than the height
	of the max. supported
	resolution.
Q	Views the photo in full
	mode or original mode.
	Press the blue button to
	enlarge the image.
eØ	You can use the Energy
	Saving mode.

Setting	Description
Option	A pop-up window will
Option	appear.
Hide	Hides the menu on the
	full size screen.
	To see the menu,
	press the OK button
	on the remote control.
Exit	Exit from full screen
	photo view.

Options for Photo List

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

Set Photo View.

Setting	Description
Slide speed	Selects a slideshow speed.
BGM	Selects a music folder for the background music. You cannot change the music folder while the background music is playing. For background music, only the folder from the same device can be selected.
	- Repeat : Selects repeat play.
	- Random : Selects random play.

Set Video.

You can change video settings. (Refer to "PICTURE Settings" 55)

Set Audio.

You can change audio settings. (Refer to "AUDIO Settings" 60)

Listening to Music

You can play audio files stored on the connected device.

Supported Music Files

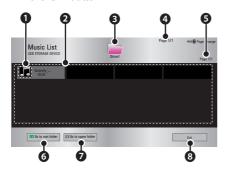
*.MP3

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 **SETTINGS** button.
- 3 Use the ∧, √, <, or > button to select MY MEDIA and press the OK button.
- 4 Use the ≤, or > button to select Music List and press the OK button.
- 5 Use the ∧, ∨, <, or > button to select the file you want and press the **OK** button.



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

6 Control playback by using the following buttons.



Setting	Description
4	Changes the playing position.
	Stops playing.
•	Returns to normal playback.
II	Pauses the media player.
H4 H4	Plays the previous/next file.
eØ	You can use the Energy
	Saving mode.
Option	Sets up the options of Music
	List.
Hide	Hides the playback bar.
	Press the OK button to
	make the playback bar
	appear.
Exit	Returns to the Music List
	screen.

Options for Music List

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

Set Audio Play.

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

Set Audio.

You can change audio settings. (Refer to "AUDIO Settings" 60)

Viewing Files

You can see document files stored on a connected device.

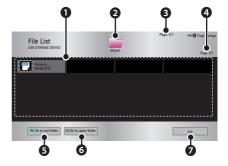
Supported File Formats

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

- File Viewer realigns a document, so it may look different from what is displayed on a PC.
- For documents that include images, the resolution may look lower during the realigning process.
- If the document is large or has many pages, it may take longer to load.
- Unsupported fonts may be replaced by other fonts.
- The file viewer may not open for Office documents that contain many high resolution images. In that case, reduce the image file size, save it on a USB storage device and run the file viewer again or connect your PC to the projector and open the file on your PC.

Browsing File List

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



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

- 6 Control playback by using the following buttons.
- Click Go Page then the pop-up window for selecting the number of page appears. Input the page to move to the page you want.
- Press the VOL +, button to zoom in or zoom out.
 - 1. Press OK.
 - Press the Up/Down/Left/Right buttons to move to Go Page or Zoom.



Setting	Description	
Go	Moves to the page you want.	
Page	Use the Up/Down/Left/Right	
	buttons to select a page and	
	press the OK button.	
Zoom	Enlarges or reduces the	
	document.	
Option	Sets up the options of File	
	Viewer.	
Hide	Hides the menu.	
	Press the OK button to	
	make it appear.	
Exit	Returns to the File Viewer	
	screen.	

Options for File List

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

Set FileViewer Option

Setting	Des	cription
Single	On	Loads and displays
Page		pages one by one.
Loading	The initial loading	
		time is short but a
		content heavy page
		may be displayed
		slowly.
	Off	Loads all pages of
		a file to memory
		before it starts to
		display them. The
		initial loading time
		is long but you can
		navigate pages
		quickly after loading
		is complete.
		If a file is too large,
		it may fail to load all
		the pages.
Image		can set the quality
Quality		e image included
		e document. The
	l	wing three options are
	l	able for the image
	'	ity: High, Medium,
		Higher the image
	quality, lower the display	
Decument	time.	
Document	Selects initial document	
Align	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 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

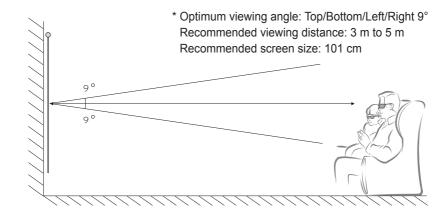
- Prevent children of 5 years or younger from watching a 3D video. It may impair the development of their eyes.
- Children 10 years old or younger are still developing their eyesight and may have an excessive tendency to touch or jump at the screen. Adult guidance and supervision is recommended.
- Since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

www.nvidia.com

www.tridef.com

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

- 1 While watching 3D images from the projector, press buttons on the glasses.
- 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	1024x768	120	Frame Sequential / Frame Alternative
RGB	XGA	1024x768	120	Frame Sequential / Frame Alternative

- The resolution supporting 3D mode is 1024x768 for HDMI and RGB input.
- · Some menus may not work in 120 Hz input.

Watching 3D Images

- 1 Play supported 3D video titles.
- **2** For RGB-PC, you must press **AUTO** on the remote control before watching 3D.
- **3** Press the **3D** button.
- **4** While watching 3D images from the projector, press buttons on the glasses.
- 5 Press the L / R button to switch the playing direction of an image. Select a screen with better 3D display quality.
- If you press the 3D button during viewing, it returns to 2D.

CUSTOMIZING SETTINGS

SETTINGS

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

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

PICTURE Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt button to select **PICTURE** and press the **OK** button.
- **3** Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available picture settings are described as follows.

Item	Description		
Energy	Reduces power consumption by adjusting screen brightness.		
Saving	Mode		
	Minimum/ Medium/	Applies the pre-set Energy Saving mode.	
Picture	Maximum Soloets the pi	cture mode optimized for the viewing environment or the	
Mode	1	can also customize advanced options for each mode.	
ouo	Mode	dan also customize davanesa opasne isi custi mede.	
	Vivid	Maximizes the visual effect of video. Heightens contrast, brightness and sharpness to display vivid images.	
	Standard	Displays images in standard levels of contrast, brightness and sharpness.	
	Eco	Displays the optimized images for natural scenery.	
	Cinema	Optimizes the image for a movie.	
	Sport	Optimizes the image for sports by emphasizing primary colours and dynamic actions.	
	Game	Optimizes the image for playing games on fast-moving screens.	
	Expert1/2	Menu for adjusting picture quality that allows experts and amateurs to enjoy the best Projector viewing. - Expert mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic.	
Contrast	Adjusts the di	fference between bright and dark regions of the screen.	
Brightness	Adjusts the overall screen brightness.		

Item	Description		
Sharpness	Adjusts the sharpness of the borders between bright and dark.		
	Horizontal and Vertical Sharpness are available only in Expert1/2.		
Colour	Adjusts the in	tensity of all colours.	
Tint	Adjusts the ba	alance between red and green levels.	
Advanced	Customizes th	ne advanced settings.	
Control			
Picture	Sets optional	settings.	
Option			
Picture	Resets values	s customized by the user.	
Reset	Each picture i	mode is reset. Select the picture mode you wish to reset.	
Aspect	Resizes the p	icture.	
Ratio			
Screen	Adjusts the pi	cture quality of RGB-PC input.	
	Option		
Resolution		Available resolutions are 768 resolution (1024 x 768/	
		1280 x 768/ 1360 x 768, 60 Hz) and 1050 resolution	
		(1400 x 1050/ 1680 x 1050, 60 Hz).	
	Auto	Provides optimized picture quality by automatically	
	Config.	calibrating the mismatch of horizontal width and picture	
		shake caused by clashes between the internal settings of	
		the projector and various PC graphic signals.	
	 You can also use the AUTO button on the remote control. 		
Position Moves the image		Moves the image up/down/left/right.	
	Size Changes the screen size. Phase Makes the picture look clear by removing horizontal		
		noise.	
	Reset	Restores all the settings to the factory default.	

Advanced Control

Item	Description
Dynamic	Adjusts contrast and colour to the optimal level according to the
Contrast	screen's brightness.
Dynamic	Adjusts colours for more natural-looking colours.
Colour	
Colour	Selects the range of colours that can be expressed.
Gamut	Standard: Displays the original colours of an input signal regardless of the display features.
	Wide: Makes use of the display's rich colours.
Skin Colour	Skin colour spectrum can be separately set to implement the skin colour as defined by the user.
Sky Colour	Sky colour is set separately.
Grass	Natural colour spectrum (meadows, hills, etc.) can be separately set.
Colour	
Gamma	Sets the gradation curve according to the output of the picture signal in
	relation to the input signal.

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

Expert Control

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

Item	Description		
Colour	In Expert mode, you can customize the options of each mode.		
Temperature	Gamma: Select 1.9, 2.2, or 2.4.		
	a. Method: 2 Points		
	- Pattern: Inner, Outer		
	- Points: Low, High		
	- Red/Green/Blue: Adjustable range -50 to +50.		
	- Apply to all inputs: The values of the Colour Temperature is		
	applied to all the input modes.		
	b. Method: 20 Point IRE		
	- Pattern: Inner, Outer		
	- IRE (Institute of Radio Engineers) is the unit indicating the size		
	of a video signal and can be set to 0, 5, 10, 15, 100. You can		
	fine-tune for each setting as shown below.		
	- Luminance: The adjustment range is 50 to 500.		
	- Red/Green/Blue: The adjustment range is -50 to +50.		
	- Apply to all inputs: The values of the Colour Temperature is		
	applied to all the input modes.		
Colour	Adjusts Red/Green/Blue/Cyan/Magenta/Yellow colours. Allows		
Management	an expert to adjust the tint using a test pattern. Six colours (Red/		
System	Green/Blue/Cyan/Magenta/Yellow) can be selectively adjusted without		
	affecting other colours. You may not see colours change on a normal		
	picture even after adjustment.		
	- Saturation Red/Green/Blue/Cyan/Magenta/Yellow,		
	Tint Red/Green/Blue/Cyan/Magenta/Yellow,		
	Luminance Red/Green/Blue/Cyan/Magenta/Yellow:		
	The adjustment range is -30 to +30 each.		

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

Picture Option

Item	Description
Noise Reduction	Reduces screen noise in the video.
MPEG Noise Reduction	Eliminates noise generated while creating digital picture signals.
Black Level	Adjusts the brightness or darkness of the screen to suit the black level of the picture input using the degree of darkness (black level) of the screen.
Real Cinema	Optimizes the screen for movie viewing.
Colour Temperature	Adjusts the overall colour of the screen to suit your preference. Select Warm, Cool, Medium or Natural.

AUDIO Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt button to select **AUDIO** and press the **OK** button.
- 3 Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available sound settings are described as follows.

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

Item		Description
Sound Effect	The user can sele	ect various sound effects.
	Mode	
	Clear Voice II	Makes the voice from the projector crisp and clear.
	Virtual	LG's proprietary audio processing technology
	Surround	allows 5 channel-like surround sound from two speakers.
		When Clear Voice II is set to on, Virtual Surround cannot be selected.
	Equalizer	Adjusts the volume to a level of your choice using the Equalizer.
		 Audio-band (100 Hz/ 300 Hz/ 1 kHz/ 3 kHz/ 10 kHz) can be adjusted from - 10 to 10.
		 Reset: Resets voice options that the user has changed.
	Balance	Adjusts the balance of the left and right speakers.
	Reset	Initialize the applied effect under the Sound Effect menu.
Auto Volume	Automatically adj	usts the volume level.
DTV Audio	When an input sig	gnal comprises different audio signals, this function
Setting	allows you to select the audio type you want.	
	If set to AUTO , the search order is HE-AAC → Dolby Digital+ → Dolby Digital → MPEG and output is produced in the first Audio	
	1	/ Lithuania only, the search order is HE-AAC \rightarrow MPEG \rightarrow Dolby Digital.
		Audio Format is not supported, another Audio e used for output.

SETUP Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt button to select **SETUP** and press the **OK** button.
- 3 Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available setup settings are described as follows.

Item	Description
Auto	Automatically tunes the programmes.
Tuning	Select Country where the projector is used. Programme settings change depending on the country you choose. Initiate Auto Tuning. Select Input Source of your choice. Set Auto Tuning following screen instructions. If Input Source is not connected properly, programme registration may not work. Auto Tuning only finds programmes that are currently broadcasting. If Lock System is turned on, a pop-up window will appear asking for password.
Manual	Adjusts programmes manually and saves the results.
Tuning	For digital broadcasting, signal strength and signal quality can be checked. For analogue broadcasting, you can set up station names and use fine tuning (except for Satellite mode). Normally fine tuning is only necessary if reception is poor. You can also adjust the frequency (kHz) and Bandwidth.
Programme	Edits the saved programmes.
Edit	Set as favourite programme, block/unblock programme, skip programme etc. of the selected programme.

TIME Settings

- 1 Press the **SETTINGS** button.
- **2** Use the \land , \lor , \lt , or \gt button to select **TIME** and press the **OK** button.
- 3 Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available time settings are described as follows.

Item	Description	
Clock	Checks or changes the time while watching projector.	
	Mode	
	Auto	Synchronizes the projector clock to the digital time
		information sent by the TV station.
	Manual	Sets the time and date manually if the auto setup does not
		correspond to the current time.
Off Time	Sets On/Off time.	
/On Time	Select Off on Repeat to discontinue On Time / Off Time.	
	To use On Time / Off Time, set the current time correctly.	
	Even when the On Time function is on, the projector will turn off	
	automatically in 120 minutes when no button is pressed within that	
	time.	
Sleep Timer	Turns off the Projector after a preset number of minutes.	
	To cancel the Sleep Timer , select Off .	
Auto Off	If there is no input signal or button press, the projector automatically	
	turns off after the preset time has elapsed.	
Automatic	Turns off the projector automatically after a set period of time if there is	
Standby	no button ir	put on the projector.

WIRELESS Settings

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



The available wireless settings are described as follows.

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

LOCK Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt 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 \land , \lor , <, or > button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available lock settings are described as follows.

Item	Description		
Set Password	Sets or changes projector password. • The initial password is set as 0000 .		
	When France is selected for Country, password is not 0000 but 1234. When France is selected for Country, password cannot be set to 0000.		
Lock System	Locks the selected programme or external input. First set Lock System to On.		
	Item	Item	
	Block	Blocks programmes with content inappropriate	
	Programme	for children. Programmes can be selected but the screen is blank and the audio is muted. To watch a	
	locked programme, enter the password.		
	Parental Guidance	This function operates according to information from the broadcaster. Therefore if the signal has incorrect information, this function does not operate. Prevents children from watching certain adult TV programmes according to the ratings	
		limit set. Enter a password to watch a blocked programme. Ratings differ by country.	
	Input Block	Block the input sources.	

Item	Description	
Key Lock	Locks control buttons on projector. Key Lock function remains intact even in case of power outage or when the power cord is removed from the wall socket.	
	Key Lock function can only be set by remote control, and not by the button on the projector.	
	Even though Key Lock is set to on, projector's buttons can turn on the power.	

OPTION 1 Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt button to select **OPTION 1** and press the **OK** button.
- **3** Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



The available option 1 settings are described as follows.

Item	Description		
Language	Selects a desired Menu Language.		
Country	Sets the country that the projector uses. Projector settings are changed according to the broadcast environment of the selected country. If the country setting is changed, the Auto Tuning information screen may appear. In a country that Digital broadcasting regulation isn't fixed, some DTV functions may not work depending on digital broadcasting circumstances.		
	If the country setting is set to "", European terrestrial digital standard broadcasting programmes are available, but some DTV functions may not work properly.		
Disability Assistance	 Audio commentary or subtitles are provided for those who are hard of hearing or visually impaired. Hard of Hearing: This function is used for the hearing impaired. If it is set to on, the subtitle is displayed by default. Audio Description: This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio. When Audio Description is selected On, basic audio and Audio Description are provided only for those programmes that have Audio Description included. 		
3D Mode	Selects 3D mode.		

Item	Description	
Auto Input Search	Automatically searches for and displays the input signal type when it is received. It is available only with external inputs (RGB, HDMI, AV, and Component).	
Data Service	This function allows users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time. If only one of them exists, either MHEG or Teletext is enabled regardless of which option you selected. • This feature is available in certain countries only.	
DivX(R) VOD	Sets DivX related settings.	
Factory Reset	 All stored information is deleted and projector settings are reset. Projector turns itself off and back on, and all settings are reset. When Lock System is in place, a pop-up window appears and asks for password. Do not turn off the power during initialization. 	

OPTION 2 Settings

- 1 Press the **SETTINGS** button.
- 2 Use the \land , \lor , \lt , or \gt button to select **OPTION 2** and press the **OK** button.
- **3** Use the \land , \lor , \lt , or \gt button to set up the desired item and press the **OK** button.
 - To return to the previous menu, press the 5 button.
- 4 Press the **EXIT** button when completed.



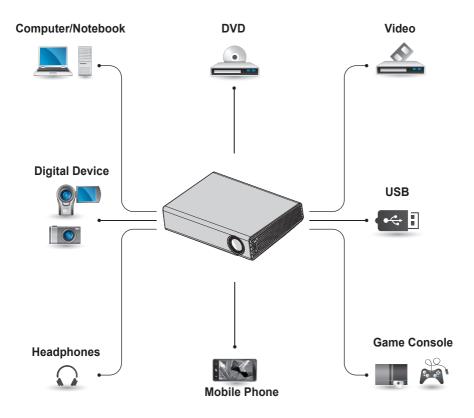
The available option 2 settings are described as follows.

Item	Description	
Keystone	To prevent the screen image from becoming trapezoidal, Keystone adjusts the top and bottom width of the image if the projector is not set at a right angle to the screen.	
Auto Keystone	Auto Keystone provides a rectangular screen image by automatically adjusting the Keystone number when there is a trapezoidal screen image caused by tilting of the projector.	
	Item	
	On Automatically adjusts the Keystone number.	
	Off Manually adjusts the Keystone number.	
PJT Mode	This function turns the projected image upside down or flips horizontal. Select Rear when projecting from the back of the transparent screen purchased separately.	
	Select Front Ceiling when installing the product on the ceiling.	
	 When PJT Mode is Rear/ Front Ceiling, the left/right of the speaker changes automatically. 	
High Altitude	If the projector is used at an altitude higher than 1200 metres, turn this on. Otherwise, the projector may overheat or its protection function may be activated. If this happens, turn the projector off and then on again after waiting for several minutes.	
Blank Image	Selects a background for blank Image.	

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

CONNECTING DEVICES

You can connect various external devices to the projector.



HDMI - page 72 Component - page 73 Composite (AV) - page 73 RGB - page 75 Memory - page 31 Headphone - page 77 Mobile Phone (MHL/Slimport) - page 78

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

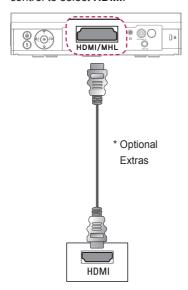
Connect an HD receiver, DVD, VCR player, or External Devices to the projector and select an appropriate input mode.

HDMI Connection

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

Using a HDMI cable, connect the **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**.

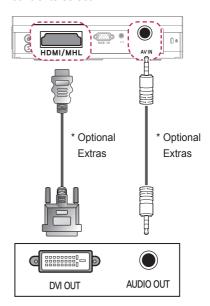


HDMI to DVI Connection

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.

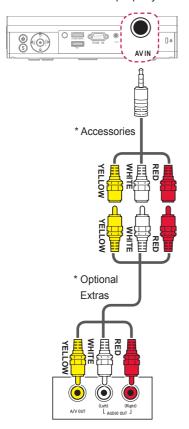
Press the **INPUT** button on the remote control to select **HDMI**.



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**.

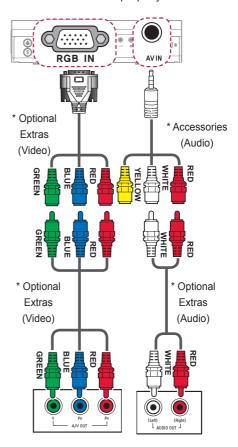
Check whether cables of the same colour are connected properly.



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 colour are connected properly.

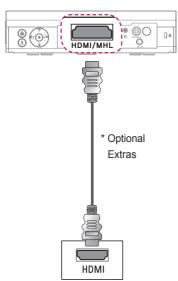


Connecting a PC

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.

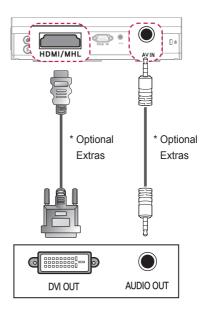


HDMI to DVI Connection

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**.

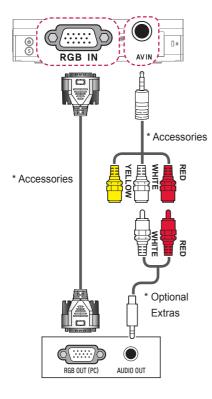


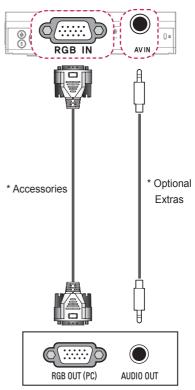
RGB Connection

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**.





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

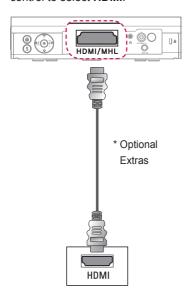
Connecting a Laptop

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**.

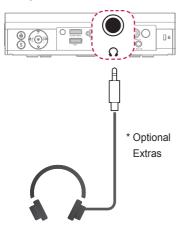


The table below shows examples of switching the output. For more information, refer to the **External Output**, **Connecting to an External Monitor**, or similar sections of the owner's manual of your computer.

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

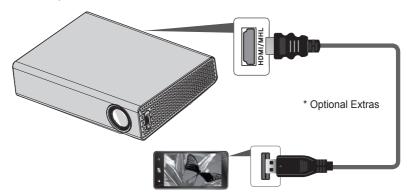
MHL/Slimport Connection

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	PA1000T (PA1000T-EU)		
Resolution (Pixel)	1280 (Horizontal) × 800 (Vertical)		
Aspect ratio	16:10 (Horizontal:Vertical)		
Panel size (mm)	11.623		
Projection distance	0.90 m to 3.06 m (76.2 cm to 254.0 cm)		
(Video size)			
Ratio of upward	100 %		
projection		100 %	
Working range of the	6 m		
remote control			
Video input	NTSC M / PAL-B, D, G, H, I / PAL M / PAL N / PAL 60 SECAM		
AC-DC Adaptor	19.0 V , 5.79 A		
Audio Output	3 W + 3 W		
Television system	DTV – DVB-T / Analog – PAL-B/G, SECAM L		
Programme coverage	VHF: E2 to E12, UHF :E21 to E69		
External antenna	75 Ω		
impedance	13.12		
Height (mm)	Front Side	56.5 (without foot), 60.0 (with foot)	
	Rear Side	44.0 (without foot), 47.5 (with foot)	
Width (mm)	230.0		
Depth (mm)	170.0		
Weight (g)	1200		
USB Device	5 V, 0.5 A (Max.)		
	Temperature		
	Operation	0 °C to 40 °C	
Operation	Storage	-20 °C to 60 °C	
environment	Relative Hun	nidity	
	Operation	0 % to 80 %	
	Storage	0 % to 85 %	

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

Supported Monitor Display

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
	97.551	119.99
1152 x 864	54.348	60.053
1280 x 800	49.68	60
1360 x 768	47.712	60.015
1280 x 1024	63.981	60.020
1400 x 1050	65.317	59.979
1680 x 1050	65.3	60

- If an invalid signal is input into the projector, it will not be displayed properly on the screen or a message such as No Signal or Invalid Format will be displayed.
- The projector supports the DDC1/2B type as the Plug & Play function (Auto-recognition of PC monitor).
- PC synchronization signal types supported: Separate type synchronization.
- In PC mode, 1280 x 800 is recommended for the best picture quality.

Supported HDMI/DVI-DTV Mode

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

Component port connecting information

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

Open Source Software Notice

Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit http://opensource.lge.com. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.



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

MODEL	
SERIAL	