LG
Life's Good

OWNER'S MANUAL

DLP PROJECTOR

Please read the SAFETY INSTRUCTIONS section carefully before using the product.

PA75U

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

NOTE

- The product images and On-Screen Display (OSD) in this manual are examples to help you understand how to operate the product, so they may be different from the actual projector.

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.

WARNING/CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

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

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

WARNING/CAUTION
- TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.

Indoor Installation

⚠ **WARNING**

- Do not place the projector in direct sunlight or near heat sources such as radiators, fires, stoves, etc.
  - This may cause fire.
- Do not place inflammables such as flammable spray near the projector.
  - This may cause 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 place the projector directly on a carpet, rug or place where ventilation is restricted such as a book shelf or closet.
  - This may cause the projector's internal temperature to rise and cause fire.

- Do not place the projector close to sources of steam or oil such as a humidifier or kitchen counter.
  - This may cause fire or electric shock.
- Do not place the projector where it might be exposed to dust.
  - This may cause fire.
- Do not use the projector in a damp place, such as a bathroom or a place exposed to the wind and rain, where it is likely to get wet.
  - This may cause fire or electric shock.
- Do not allow a tablecloth or curtain to block the vents.
  - This may cause the internal temperature of the projector to rise and cause fire.
- The distance between the projector and the wall should be more than 30 cm for ventilation purposes.
  - Otherwise, this may cause the internal temperature of the projector to rise and cause fire.

⚠ CAUTION

• When installing the projector on a table, be careful not to place it near the edge.
  - The projector may fall causing injury to persons or product malfunction. Make sure that you use the cabinet or stand that fits the projector.
• Disconnect the projector from the power supply and all connected apparatus before moving the projector.
  - Otherwise, the power cord may be damaged causing 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 or flip and cause injury.
• Be careful not to tip or drop the projector over when connecting external devices to the projector.
  - This may cause injury to persons or damage to the projector.

Power

⚠ WARNING

• The grounding wire should be connected.
  - Be sure to connect the grounding wire to avoid damage to the projector or electric shock when there is a short circuit.
  If it is not possible to ground the unit, purchase a circuit breaker and connect the projector to its wall outlet. Do not try to ground the projector to the gas pipe, water pipe, lightning rod, or telephone line, etc.
• The power plug should be inserted fully into the power outlet.
  - An unstable connection may cause fire.
• Do not place heavy objects on the power cord.
  - This may cause fire or electric shock.
• Never touch the power plug with a wet hand.
  - This may cause electric shock.
• Do not plug too many devices into one multi-power outlet.
  - This may cause fire due to the power outlet overheating.
• Remove dust or contaminants around power plug pins or wall outlets.
  - Failure to do so may cause fire.
• To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.

⚠ **CAUTION**

- Hold the plug firmly when unplugging.
  - A broken wire in the cord may cause fire.
- 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 cause fire or electric shock.
- Keep the power cord away from any heating devices.
  - The cord coating may melt and cause 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 cause fire or electric shock.
- Do not turn the projector on or off by plugging in the power plug or unplugging it from the wall outlet.
  (Do not use the power plug as a switch.)
  - This may cause electric shock or product malfunction.
- 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 cause electric shock.
- Only use the official power cord provided by LG Electronics. Do not use other power cords.
  - This may cause 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 cause fire or electric shock, or injury due to falling.
- In the event that there is a heavy impact on the projector or the cabinet is damaged, switch it off, unplug it from the power outlet and contact an authorized service center.
  - Failure to do so may cause fire or electric shock.
- Do not insert pieces of metal, such as coins, hairpins or metal debris, or flammable materials, such as paper or matches, into the projector.
  - This may cause fire or electric shock.
- In the event that liquid or a foreign object falls into the projector, switch it off and unplug it from the power outlet and contact our service center.
  - Failure to do so may cause 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.
- Do not remove any covers except for the lens cap. There is a high risk of electric shock.
- Do not look directly into the lens when the projector is in use. The strong 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, do not touch the wall outlet. Open the window for ventilation.
  - A spark may cause a fire or burn.
- Be sure to open the lens cap before using the projector.
- Never touch the projector or power cord during thunder or lightning.
  - This may cause electric shock.
- Do not use the projector near electronic devices that generate a strong magnetic field.
- Do not wear the plastic package used to pack the projector around your head.
  - This may cause suffocation.
- Do not use 3D glasses if you are not watching 3D.
- 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 length of connecting cable is long enough.
  - Otherwise, the product may fall causing personal injury or damage to the product.

⚠ **CAUTION**

- Do not place a heavy object on the projector.
  - It may fall down and cause physical injury.
- Be careful to protect the lens from heavy impact during transportation.
- Do not touch the lens of the projector. The lens may be damaged.
- Do not use any sharp tools on the projector such as a knife or hammer, because this may damage the casing.
- In the event that no image appears on the screen or no sound is heard, stop using the projector. Switch off the projector,
  unplug it from the power outlet and contact our service center.
  - Failure to do so may cause fire or electric shock.
- Do not drop an object onto the projector or apply heavy pressure to it.
  - This may cause injury to persons or product malfunction.
- It is recommended that you maintain a distance of more than 5- 7 times the diagonal length of the screen between your eyes and the screen.
  - If you watch the screen at a close distance for a long time, your eyesight may become worse.

Cleaning

⚠ WARNING

• Do not spray the projector with water when cleaning. Do not allow water to get into the projector or do not allow it to get wet.
  - This may cause fire or electric shock.
• In the event that smoke or a strange smell comes out from the projector or a foreign object falls into the projector, stop using it. Switch off the projector, unplug it from the power outlet and contact our service center.
  - Otherwise, this may cause fire or electric shock.
• Use an air spray or soft cloth or 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 the Service Center once a year to clean the internal parts of the projector.
  - If you do not clean the contaminated interior of the projector for a long time, there may be a fire or product malfunction.
• 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. When cleaning the plastic parts, such as the projector case, do not use cleanser, automobile or industrial shiner, abrasive or wax, benzene, alcohol, etc., which can damage the product.
  - This can cause fire, electric shock or product damage (deformation, corrosion and damage).

Others

⚠ WARNING

• Only a qualified technician can disassemble or modify the projector. For inspection, adjustment, or repair, contact your seller or our service center.
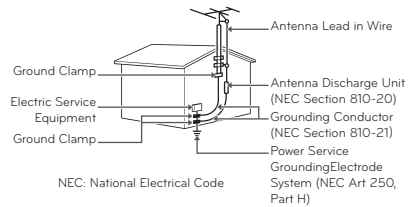 - Otherwise, this may cause fire or electric shock.

⚠ CAUTION

• Do not mix new batteries with old batteries.
  - This may cause fire or electric shock caused by overheating and leakage.
• Unplug the power cord if the projector is not used for a long period.
  - Accumulated dust may cause electric shock due to overheating, ignition, or poor insulation, or fire due to a short circuit.
• Only use the specified type of battery.
  - Burst or leaking batteries may cause fire or electric shock.
• Do not charge the battery using any devices other than the one provided with the product.
  - This may cause damage to the battery or fire.
• Dispose of the used battery properly.
  -Failure to do so may cause explosion or fire. The correct method of disposal may vary depending on your country or region. Dispose of the battery pack according to the appropriate instructions.
• Do not throw or disassemble the battery.
  -This may cause fire or explosion due to damage to the battery.

• Always use batteries approved and certified by LG Electronics.- Failure to do so may cause fire or explosion.
• Do not store the battery near 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 battery near any heat source, such as a heater.
  - This may cause fire or product malfunction.
• Do not store it at temperatures higher than 60°C or in high humidity.
  - This may cause explosion or fire.
• Keep the battery out of reach of children.
  - Failure to do so may cause personal injury or product malfunction.
• Make sure that the battery is installed correctly.
  - Failure to do so may cause explosion or fire.
• The battery contains lithium-ion, so it must be handled with care.
  - Failure to do so may cause explosion or fire.
• Make sure you use the same type of battery for replacement.
• Incorrect battery replacement may cause fire.

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 projector, bend the outdoor antenna wire where it comes indoors.
  - Raindrops flowing into the projector may cause fire or electric shock.
- Do not use a portable antenna outside.
  - If you use a portable antenna outside, lightning or raindrops may cause fire or electric shock. Therefore, be sure to use it inside only.
- It is dangerous to wind a portable antenna wire around a person, animal, or object or to use the antenna wire as a strap. Pay particularly special attention to ensure an infant, child, elderly person or a person with a mental disorder or mental retardation does not use the antenna wire.
- It is dangerous to throw a portable antenna or use it as a toy. Be sure to use it as a TV signal receiver only.
- Install a portable antenna away from a person, metal, or an animal so that it does not touch them. In particular, it is extremely dangerous to insert your head, hand, or foot into the antenna or bend the antenna.

- Because the receiver sensitivity of the portable antenna may be very high depending on the location of or distance from a TV transmitter, area, house structure, surrounding environments (mountain, structure, building, wall, or window material, etc.), or nearby transportations (train, airplane, or vehicle, etc.), it is advisable to subscribe to cable television at the home or office.
- **Antenna grounding according to the National Electrical Code, ANSI/ NFPA 70**

Antenna Lead in Wire

Ground Clamp

Antenna Discharge Unit (NEC Section 810-20)

Electric Service Equipment

Grounding Conductor (NEC Section 810-21)

Ground Clamp

Power Service GroundingElectrode System (NEC Art 250, Part H)

NEC: National Electrical Code

FCC NOTICE

Federal Communications Commission (FCC) Statement
You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation of the device of the device.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment and For indoor use only, use outdoors or in other modes not covered by this manual may violate the FCC regulation and violate the user authority to use the product. Specially, within the 5.15-5.25 GHz band, U-NII device is restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

FCC RF Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

IC (CANADA)

Industry Canada Statement:
This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the
following two conditions:
1) this device may not cause interference and
2) this device must accept any interference, including interference that may cause undesired operation of the device.

Avis d'Industrie Canada :
Cet appareil est conforme à la norme CNR-210 des règlements d'Industrie Canada. Son fonctionnement
est sujet aux deux conditions suivantes :
1) Cet appareil ne doit pas provoquer d'interférences et
2) Cet appareil doit accepter toutes les interférences, y compris celles pouvant entraîner son dysfonctionnement.

IC Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Avis d'Industrie Canada sur l'exposition aux rayonnements
Cet appareil est conforme aux limites d'exposition aux rayonnements d'Industrie Canada pour un environnement non contrôlé. REMARQUE : LE FABRICANT N'EST PAS RESPONSABLE DES INTERFÉRENCES RADIOÉLECTRIQUES CAUSÉES PAR DES MODIFICATIONS NON AUTORISÉES APPORTÉES À CET APPAREIL. DE TELLES MODIFICATIONS POURRAIT ANNULER L'AUTORISATION ACCORDÉE À L'UTILISATEUR DE FAIRE FONCTIONNER L'APPAREIL.

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream through designated collection facilities appointed by your government or your local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Disposal of waste batteries/accumulators

1. When this crossed-out wheeled bin symbol is attached to batteries/accumulators of Your product it means they are covered by European Directive 2006/66/EC.
2. This symbol may be combined with chemical symbols for mercury(Hg), cadmium(Cd) or lead(Pb) if the battery Contains more that 0.0005 % of mercury, 0.002 % of cadmium or 0.004 % of lead.
3. All batteries/accumulators should be disposed separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
4. The correct disposal of Your old batteries/accumulators will help to prevent potential negative consequences for the environment, animal and human health.
5. For more detailed information about disposal of Your old batteries/accumulators, please contact Your city office, waste disposal service or the shop where You purchased the product.

For USA

NOTE TO CABLE/TV INSTALLER

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

Table of contents

PREPARATION

Accessories

Check the accessories provided with the product.
The picture may be different from the actual product.

Remote Control
Two AAA Batteries

Magic Remote Control
Two AA Batteries

Owner's Manual

Manual CD

Computer Cable

Composite Gender

AC-DC Adaptor

Power Cord

Lens Cap, Strap

Bag

Portable
Antenna
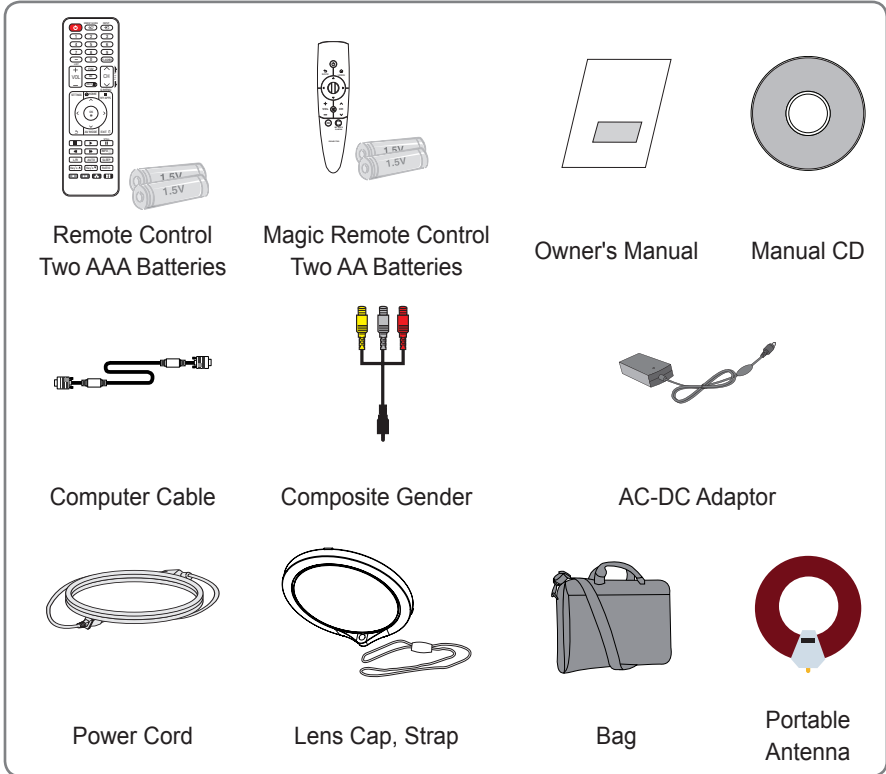
• When connecting a cable to the HDMI or USB port,
be sure to use the jack that fits into the
USB/HDMI port. Use a standard sized jack
.

A≦10 mm , B≦24 mm
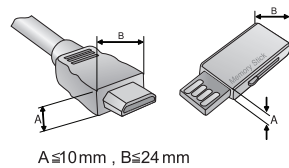
Optional Accessories

To purchase optional accessories, visit an electronics store or online shopping site or contact the retail store where you purchased the product.
Without prior notice, optional extras are subject to change in order to improve the performance of the product, and new optional accessories may be added.
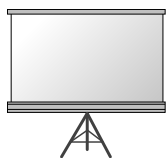
Projection Screen	Tripod	HDMI Cable
Video Cable	Audio Cable	3D Glasses (DLP-LINK or DLP-Ready Type)
RGB to Component Cable	Coaxial Cable	

Parts and Components

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

Back

Control Panel

Vent[1]

Speaker

Speaker

Lens[2]

Focus Ring
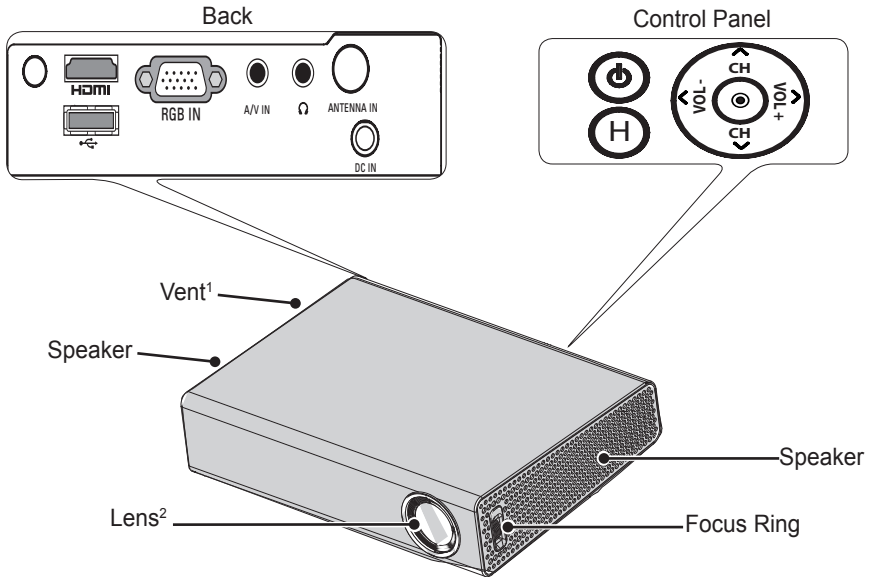
Button	Description
◎(Power)	Turns the projector on or off.
⊕(HOME)	Enters the Home menu.
CH (Channel) ∧, ∨	Changes the TV channel.
VOL (Volume) -, +	Adjusts the volume level.
∧, ∨, <, >	Switches between menu functions.
◎(OK)	Shows the current mode and saves changes to the settings.

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

Installation

Installation Precautions

• Place the projector in a well-ventilated environment.

- To prevent internal heat from building up, install the projector in a well-ventilated place.
  Do not place anything near the projector as this may block its air vents. If the air vents are blocked, the internal temperature will increase.

- Do not place the projector on a carpet or rug. If a projector model has its inlet vent on its bottom, do not block the vent and use the projector on a solid level surface.

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

- Leave an adequate 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 cause fire.
• Do not remove any covers except for the lens cap. There is a high risk of electric shock.
• The projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.
• The remote control may not work in an environment where a lamp equipped with electronic ballasts or a three-wavelength fluorescent lamp is installed. Replace the lamp with an international standard lamp for the remote control to work normally.

Projection Distance per Screen Size

1 Place the projector on a sturdy, level surface, together with the computer or audio/video source.

2 Place the projector at an appropriate distance from the screen. The distance between the projector and the screen determines the actual size of the image.

3 Position the projector so that the lens is perpendicular to the screen. If the lens is not perpendicular to the screen, the projected image will look distorted. At this time, run the **Keystone** function.

4 Connect the power cords of the projector and the connected devices to the wall outlet.

Ratio of upward projection: 100 %
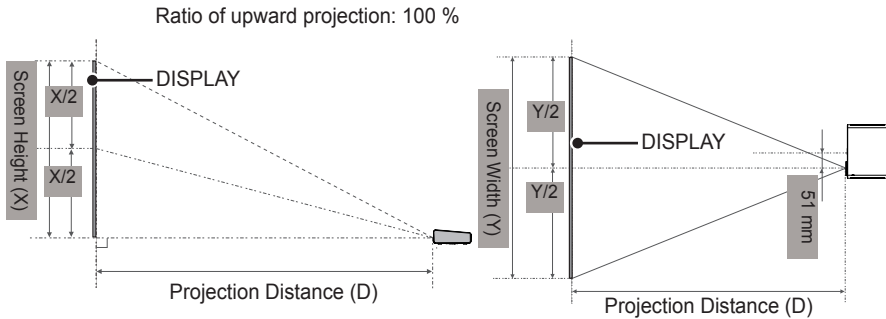
16:10 Ratio			
Screen Size (mm)	Screen Width (Y) (mm)	Screen Height (X) (mm)	Projection Distance (D) (mm)
762	646	404	902
889	754	471	1056
1016	861	539	1210
1143	969	606	1365
1270	1077	673	1520
1397	1185	741	1674
1524	1292	808	1828
1651	1400	875	1983
1778	1508	943	2137
1905	1615	1010	2291
2032	1723	1077	2445
2159	1831	1145	2600
2286	1938	1212	2755
2413	2046	1279	2909
2540	2154	1347	3063

How to Install the Projector Using 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 the locking bolt of standard size 4.5 mm or less. The maximum size allowed for the locking bolt is 5.5 mm. (If it is longer than the maximum allowed size, it may damage the projector.)

Bottom side of the projector

Bolt used to fix the projector

+

⇒

The projector is connected to this part.

Tripod
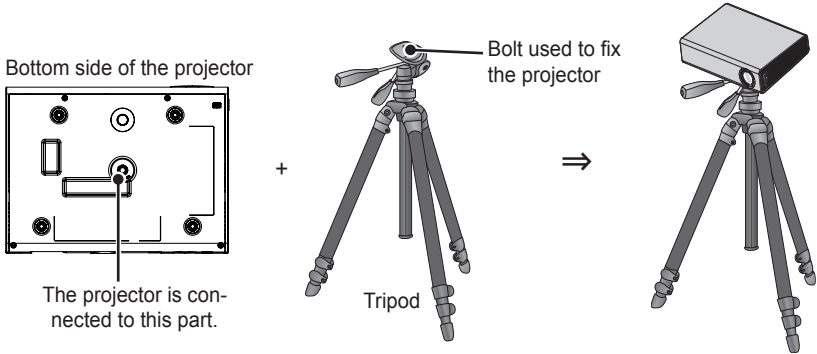
Kensington Security System

• 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 safety systems for laptops and other electronic devices.Website: http://www.kensington.com
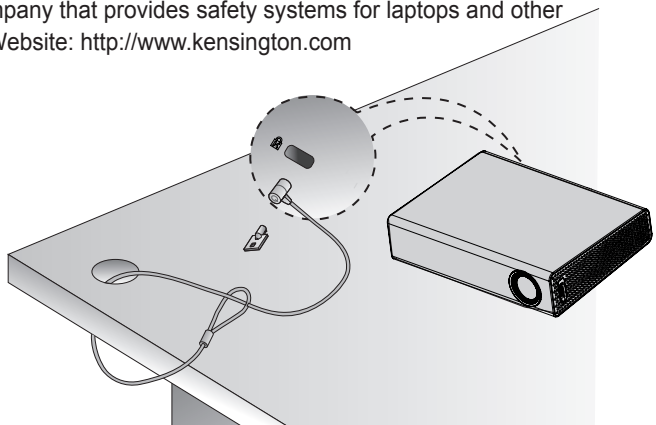
REMOTE CONTROL

Open the battery cover on the back of the remote control and insert the specified batteries as per instructions ⊕⊖. The same type of batteries (1.5 V AAA) must be used. These must also be new batteries.
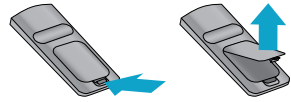
⚠ **CAUTION**

• Do not mix new batteries with old ones.
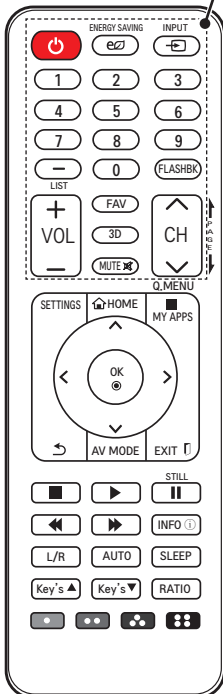
POWER
Turns the projector on or off.
ENERGY SAVING
Changes the energy saving mode.
INPUT
Changes the input source.
Number buttons
Enter a number.
- (dash)
Enters a channel number, such as 2-1 or 2-2.
LIST
Displays the channel list.
FLASHBK
Displays the channel you were watching previously.
VOL +, -
Adjusts the volume level.
FAV
Shows favorite channels.
3D
Shows 3D images.
MUTE
Mutes the sound of the projector.
CH ∧, ∨
Changes the TV channel.
PAGE
Moves to the previous/next page.

SETTINGS
Displays or closes the Settings menu.
⌂HOME
Displays the Home menu.
▦MY APPS/Q.MENU
MY APPS: Displays the list of my apps.
Q.MENU: Changes the settings easily.
Up/Down/Left/Right buttons
Switches between menu functions.
OK ◉
Shows the current mode and saves changes to the settings.
↰
Returns to the previous screen.
AV MODE
Sets the genre.
EXIT ⛶
Closes the settings window.

Playback control buttons
Controls the playback of the projector or SmartShare™.
INFO ⓘ
Displays the information of a program or screen.
L/R
Switches the left and right sides of a 3D image.
AUTO
Automatically adjusts the PC input image.
SLEEP
Sets the sleep timer.
Key's▲ , ▼
Adjusts the Keystone settings.
RATIO
Resizes the picture.
Color buttons
Set detailed settings or gesture for each menu.

🔔 NOTE

- When using the remote control, the optimal operation range is 6 meters or less (left/right) and within a 30 degree arc of the remote control IR receiver.
- If a cable is connected to the back port, the optimal operating range is 3 meters or less (left/right) and within a 30 degree arc of the remote control IR receiver.
- For seamless operation, do not block the IR receiver.
- When you carry the remote control in a bag, make sure that the buttons on the remote control are not being pressed by the projector, cables, documents or any other accessories in the bag. This may significantly reduce the battery life.

30° 30°
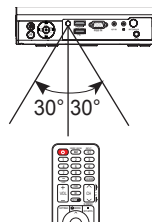
MAGIC REMOTE CONTROL

If the battery low message appears while using the projector, replace the batteries. As shown in the figure, press the top of the battery cover and slide it down the cover. Insert two new and identical alkaline batteries (1.5V, AA type) with + and - poles pointing in the correct direction in the remote control.

⚠ **CAUTION**

• Do not mix new batteries with old ones.

Pointer Signal Transmitter

⏻ **Power Sources**
Turns the projector on or off.

BACK
Press this button to return to the previous step.

⌂ **HOME**
Displays the Home menu.

∧, ∨, <, >
(top, bottom, left, right)
(+, -) VOL (∧, ∨) CH
🔇**MUTE**
Mutes the sound of the projector.

Wheel (OK)
Select a menu or option.
If you press the ∧, ∨, < or > button while the pointer is moving, the pointer disappears and the Magic remote control operates as a normal remote control.
To display the pointer on the screen, shake the Magic remote control to the left/right.

3D
Used to watch 3D video.

MY APPS/Q.MENU
MY APPS: Displays the list of my apps.
Q.MENU: Changes the settings quickly.

Pairing the Magic Remote Control

- You must pair the magic remote control with the projector to use it.
- Pair the magic remote control prior to use as follows:

1 Turn on the projector and press the ⃝ wheel (OK) button toward the projector. When the pairing is complete, the pairing completion message is displayed on the projector screen.

2 If you failed to pair the magic remote control, turn the projector off and on and try pairing again by pressing the ⃝ wheel (OK) button.

Re-pairing the Magic Remote Control

1 Press the ⌂HOME button and ↰ BACK button at the same time for about 5 seconds. The Magic remote control is paired again when you press the ⃝ wheel (OK) button toward the projector.

2 You can also re-pair it by pressing the ↰ BACK button toward the projector for about 5 seconds. At this point, the Magic remote control is initialized. When the pairing is complete, the pairing completion message is displayed on the projector screen.

Using the Magic Remote Control

1 Shake the Magic remote control lightly when there is no pointer displayed on the screen. A pointer will be displayed on the screen.
→The pointer disappears if the remote controller is not used for a certain period of time.

2 When you move the pointer signal transmitter up/down/left/right while pointing it toward the projector, the pointer moves.
→ If the pointer is not working properly, do not move the magic remote control for about 10 seconds, and then move it again.

> **① NOTE**
>
> - Use the remote control within the specified range (within 10 meters.) You may experience communication failures when using the device outside the coverage area or if there are obstacles within the coverage area.
> - You may experience communication failures depending on the accessories.
>   Devices such as a microwave oven and wireless LAN operate in the same frequency band (2.4 GHz) as the Magic remote control. This may cause communication failures.
> - The Magic remote control may become damaged or may malfunction if it is dropped or receives a heavy impact.
> - Take care not to bump into nearby furniture, electronics or other people when using the Magic remote control.

WATCHING WITH THE PROJECTOR

Connecting the Antenna or Cable

To watch TV using an indoor/outdoor antenna, connect a wall terminal to the antenna terminal of the projector using a RF cable (75 Ω).
You can watch public TV or cable (analog, digital) TV.
(The RF cable is sold separately.)

ANTENNA IN
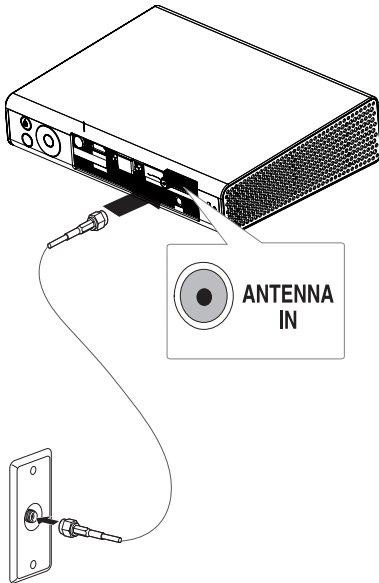
🛈 NOTE

- Be careful not to bend the copper wire when connecting the coaxial cable (75Ω). Fix the cable by turning its connector clockwise.
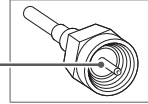
Copper Wire

- Ensure you use a standard coaxial cable (75Ω, sold separately) when connecting to the projector input.
- To obtain better image quality in locations where signal strength is low, please purchase and install a signal amplifier (booster).
- A signal splitter is required if you want to use two or more projectors for watching with one antenna.
  If you have any problems with antenna installation, please consult the antenna specialized retailer or the store from which you purchased the antenna.

Connecting the Portable Antenna

Antenna connection

Cable

Projector
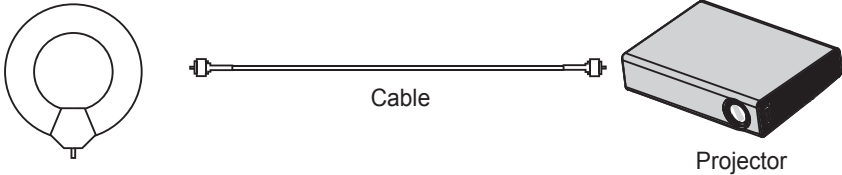
⚠ **CAUTION**

- It is recommended to attach the antenna to a window. This makes the reception better than when attaching it to a wall.
- Install the antenna in a place where it is out of reach of children.
- The adhesive of the Velcro tape may be weakened if you attach it to an textured or uneven surface or a wall covered with wallpaper made from linen, silk, fabric, or expanded vinyl.
- Do not install the antenna close to any valuable or fragile items.
- When attaching the antenna to a surface on a cold or humid day, use a hair dryer to warm and/or dry the surface before attachment.
- If the adhesive of the Velcro tape is too weak to hold the antenna, hang the antenna using a hook or ring.
- Do not use the portable antenna outside.
  - Otherwise, this may result in electric shock or fire due to lightning or rain water. Therefore, be sure to use it inside only.
- Winding a portable antenna wire around a person, animal, or object or using an antenna wire as a strap can be dangerous. Remember to keep an antenna wire from infants, children, elderly or mentally disabled people.
- It is dangerous to throw the portable antenna or use it as a toy. Be sure to use it inside only for receiving TV signals.
- Install a portable antenna away from people, animals, or metal objects so that it does not touch them or cannot fall on them.
- Because the sensitivity of a portable antenna will vary depending on the location of or distance from a TV transmitter, region, house type, surrounding environment (mountain, structure, building, wall, and window material), and nearby transportations (train, airplane, and vehicle), it is recommended you to subscribe to cable television at home or office.

HDTV reception

1 Connect an RF cable to the connector port on the bottom of the antenna. If the cable is not long enough, you can use a coaxial cable.
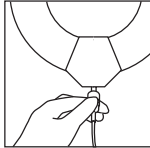
2 Connect the other end of the cable to the Antenna In port of the projector.
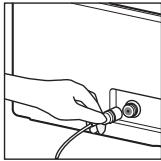
3 Attach the antenna to a wall near a window temporarily and use the Auto Tuning function of the projector to tune channels.
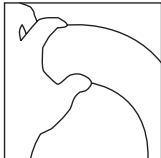
4 Install the antenna in a place with the best reception using the signal strength indicator.

Antenna Installation

1 When attaching the antenna to a window, clean the window with a dry cloth first. You may also hang the antenna on a wall with a hook or ring.

2 Remove the tape from the backside of the Velcro tape and attach the tape while trying not to touch the sticky side with your fingers.
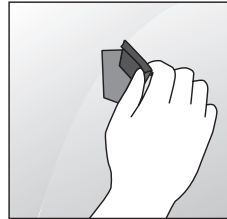
3 Check if the tape is securely fixed after 10 minutes and attach the antenna.

Using the Projector

Turning on the Projector

1 Connect the power cord correctly.

2 After waiting for a moment, press the **POWER** button on the remote control or the control panel.
(The light on the control panel will be turned on.)

  • Check if the lens cap is open before turning on the projector.

3 In the Language Selection screen, select a language.

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

Focus and Position of the Screen Image

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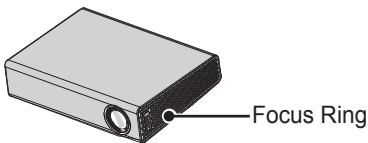
Focus Ring

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

Using the 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 the screen.

Button	Description
CH ∧, ∨	Changes the TV channel.
List	Displays the channel list.
0 - 9	Enters a channel number.
VOL -, +	Adjusts the volume level.
MUTE	Mutes the sound of the projector.
FLASH-BK	Displays the channel you were watching previously.
Key's ▲, ▼	Adjusts the Keystone settings.

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

Using the Projector Functions

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.

Home Menu

1 Press the **HOME** button of the remote control.

	Description
❶	Displays the screen you are currently watching.
❷	Displays the premium menu.
❸	You can edit the card list.
❹	Returns to the previous screen.
❺	Exits from the HOME menu.
❻	Displays the list of my apps.

Additional Options

Adjusting the Aspect Ratio

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

> **! NOTE**
> • Available options may vary depend-ing on the input signal.
> • You can also change the image size by pressing **Q.MENU** or **SETTINGS**.

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

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

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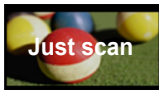
Just scan

> **! NOTE**
> • When using Just Scan, some chan-nels will have noise at the edge of the screen.

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

Set By Program

- **4:3**: Resizes images to the aspect ratio.

- **Zoom**: Enlarges an image to fit the screen width. The top and bottom of the image may be truncated.
  • Press the $<$ or $>$ button to zoom in or out of the image.
  • Press the $\wedge$ or $\vee$ button to move the image.

- **Cinema Zoom**: Formats an image to the cinemascope ratio, 2.35:1. It ranges from 1 to 16.
  • Press the $<$ or $>$ button to zoom in or out of the image.
  • Press the $\wedge$ or $\vee$ button to move the image.

> **! NOTE**
> • If you enlarge or reduce the picture, it may be distorted.

Using the Keystone Function

If the projector is not at a right angle to the screen, you can use the trapezoidal setting to adjust the screen.
Because the **Keystone** function may cause inferior screen image quality, use this function only when it is not possible to set up the projector at an optimal angle.
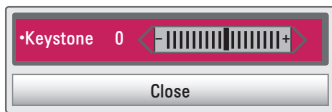
1 Press the **Key's▲** or **Key's▼** button to adjust the screen.
   • **Keystone** can be adjusted from **-40** to **40**.

2 Press the **OK** button after adjustment.

Using the Input List

Using the Input List

1 Press the **INPUT** button to access the input sources.

   - The connected input mode appears first. Please note that the external input and component are always enabled.
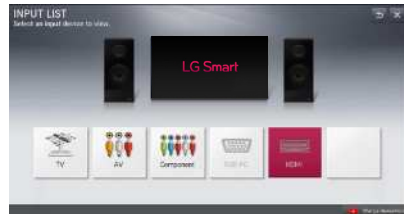
2 Select an input signal using the **INPUT** button. The projector is switched only to the connected input mode. You can use the $<$ or $>$ button to switch between all the input modes.

Adding an Input Label

Displays which devices are connected to which input ports.

1 Press the **INPUT** button to access the input sources.

2 Press the **RED** button.

3 Use the $<$ or $>$ button to scroll to one of the input sources.

4 Use the $\wedge$, $\vee$, $<$ or $>$ button to select a device name.

Using the Quick Menu

You can customize frequently used menus.

1 Press the **MY APPS** button and select the **Q.MENU**.

2 Press the $<$ or $>$ button to scroll through the following menus and press **OK**.

Menu	Description
Aspect Ratio	Resizes the picture.
Picture Mode	Changes the picture mode.
Sound Mode	Sets the sound mode.
Sleep Timer	Sets the projector to be turned off at the specified time.
Caption	Sets whether to display captions and customizes your option in each mode.
Multi Audio	Sets MONO or STEREO, or a language for a bilingual broadcast.
Energy Saving	Adjusts the brightness.
AV Mode	Sets the genre.
Del/Add	Edits channels.
USB Device	Allows you to remove a connected USB device in a safe manner.(Displayed only when a USB device is connected.)

3 Press the $\wedge$, $\vee$, $<$, or $>$ button to scroll through the following menus.

ENTERTAINMENT

Network Setup

To use the network media sharing features like DLNA, the projector must first be connected to wireless network. To use any Internet related Smart functions, your network must be connected to the Internet.

One-Click Network Connection

If your wireless router supported one button setup (WPS), you can use it to easily connect the projector to your network

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **NETWORK** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set **Network Connection** and press the **OK** button.

4 The projector should automatically connect to the wireless network when using one button setup. If it does not, use the AP List option in the expert settings.

Expert Settings for Network Connection

It is used in a specific environment such as office (where fixed IP, etc. is used).

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **NETWORK** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set **Network Connection** and press the **OK** button.

4 Select **Set Expert** in the network connection list.

5 Select one of the following network connection methods.

Item	Description
AP List	Select a network from a list of available wireless routers.
Enter the SSID	Directly enter the name of the wireless router to connect.
WPS-PBC	Press the WPS button on the wireless router that supports this function. Not all makes and models will have a WPS button.
WPS-PIN	Enter the PIN number in the web page of the PIN-supporting wireless router to connect to the router in a simple manner.
Ad-hoc	This is used for a direct connection with a PC or phone when a wireless router is not available.

Wireless Network Connection

You can use a wireless network by using the built-in wireless network module as shown below.
A wireless router must be installed and operating at this time. Refer to the wireless router's user manual to see how to install it.
The network settings and connection may be different depending on the network environment. Set up the router as instructed in its user manual.
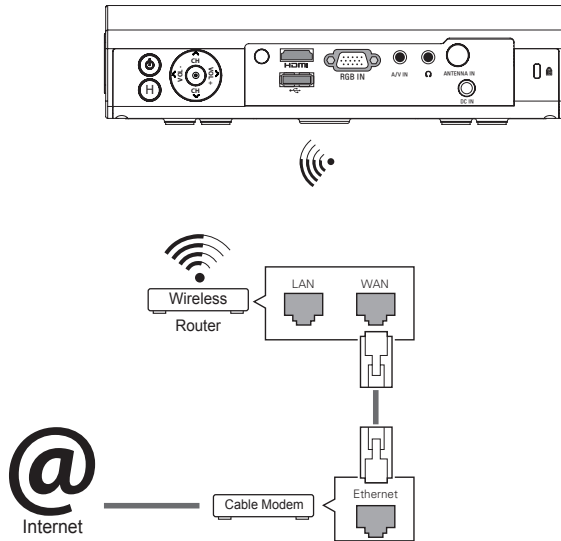
Wireless Screen Sharing

This function allows the user to use the wireless connection, such as Wi-Fi direct or WiDi. On the SmartShare™, you can share the screen of a device connected through Wi-Fi Screen Share.
Turn Wi-Fi Screen Share on. A list of devices available for connection is displayed. Select a device to connect. A connection request message is displayed. Select Yes. The Wi-Fi Screen Share device is then connected.

1 Press the **SETTINGS** button.

2 Press the $\wedge$ or $\vee$ button to select **NETWORK** and press the **OK** button.

3 Press the $\wedge$, $\vee$, $<$ or $>$ button to select **Wi-Fi Screen Share** and then press the **OK** button.

Using the Wi-Fi Screen Share Function

With this function, you can use a wireless connection such as Wi-Fi Direct or WiDi, etc.
Using SmartShare™, you can share a device's screen through Wi-Fi Screen Share.

Connecting the Wi-Fi Direct

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **NETWORK** and press the **OK** button.

3 Press the ∧, ∨, < or > button to select Wi-Fi Screen Share and then press the **OK** button.

4 Set Wi-Fi Screen Share to On. (If you don't want to use this function, set to Off.)

5 Enable Wi-Fi Direct on the device that you want to connect to.

6 The list of devices that can connect to the Smart Projector is displayed.

7 Select a device to connect.

8 Select **Yes** when the connection request message appears.

9 If the device that you want to connect to accepts the request, Wi-Fi Screen Share will be connected.

Using WiDi

WiDi represents Wireless Display. It is a system that sends video and sound files a notebook PC that supports Intel WiDi.

WiDi Setup (Wireless Display)

1 Press the **SETTINGS** button.

2 Use the ∧, ∨, < or > button to select **NETWORK** and press the **OK** button.

3 Press the ∧, ∨, < or > button to select **Wi-Fi Screen Share** and then press the **OK** button.

4 Set Wi-Fi Screen Share to On. (If you don't want to use this function, set to Off.)

5 Your laptop runs the Intel WiDi program ( ).

6 The nearby LG Smart Projectors supporting WiDi are searched. In the list, select the Smart Projector you want and click Connect.

7 Enter the 4-digit MY PIN number displayed on the Smart Projector in the Intel WiDi program input field on a laptop and press Continue.

8 In a moment, the laptop screen is displayed on the Smart Projector screen. The wireless environment may affect the screen display. If the connection is poor, the Intel WiDi connection may be lost.

* For more information on how to use the Intel WiDi, visit http://intel.com/go/widi.

Tips for Network Setup

- Modem reconfiguration may cause network connection problems. If it does, turn off the modem and disconnect it from the projector; then turn on the modem again. It will be working normally.
- LG Electronics is not responsible for any Internet connection problems, or any failure, error or malfunction due to your Internet connection.
- The network connection may not be working properly because of the Internet Service Provider (ISP).
- DSL service requires a DSL modem, and cable service requires a cable modem. Internet connections may be limited due to an agreement with an Internet service provider (ISP), and the projector might not connect to a network. (When only one device is allowed per line and a PC is already connected, other devices are not available for use.)
- The wireless network may be affected by interference from a device that uses 2.4 GHz frequency, such as a wireless telephone, Bluetooth device or microwave. Interference may also be caused by a device that uses 5 GHz frequency such as Wi-Fi devices.
- The wireless network service may run slowly depending on the surrounding wireless environment.
- Some devices may have a network traffic jam if any local home networks are turned on.

- To connect to a wireless router, a router that supports wireless connection is necessary; the wireless connection function of the corresponding router must also be activated. Ask the router manufacturer whether the router supports wireless connection.
- To connect to a wireless router, verify the SSID and security settings of the wireless router. Please refer to the user guide of the corresponding router regarding SSID and security settings of the wireless router.
- The projector may not work properly if network devices (wire/wireless router or hub, etc.) are incorrectly set up. Be sure to install the devices correctly by referring to their user guides before configuring the network connection.
- When Ad-hoc is used, it may not be able to connect depending on the device (for example, laptop) that is connected.
- The connection method may vary according to the manufacturer of the wireless router.

Using Media Link

If you install the Plex server on a computer that is connected on the same network as the smart projector, you can directly and easily use various multimedia, such as photos, videos, or music stored on the computer.

Connecting Media Link

1 Install the Plex Media Server program on a computer.
You can download the Plex program suitable for your PC or notebook from www.lg.com.

2 After installing the program, select the Plex icon in the system tray on the computer and click the right button of the mouse. Set the shared folders in Plex Media Manager.

3 Select Media Link from the Home menu of the projector.

4 The Media Link section for a connected a computer is displayed. Select a section.

Using Media Link

1 Press the **MY APPS** button.
2 Go to Media Link.

The folders appear as set up in the PLEX Media Manager.

System Requirements for PLEX installation

• Minimum requirements
PC with 1.6 GHz Intel Core Duo Processor and Windows XP SP3 or higher, 512 MB RAM or more Recommendations for HD contents transcoding (720p and1080p)
PC with 2.4 Ghz Intel Core Duo Processor and Windows XP SP3 or higher, 2 GB RAM or more
Windows XP, Vista and Windows 7, and Windows 8 support

• Network requirements
ADSL/Cable/Wi-Fi Internet connection for calculation and update of media meta data. Wired network: 100 BaseT or 1000 BaseT Ethernet network
Wireless network: Uncongested 802.11 n recommended, Media play supported by wireless mobile devices

Cautions when Using Media Link

• Only the 0.9.1.14 or higher version of PLEX media server can be installed on a Mac or PC.

• For the following languages, the GUI language is displayed in English and the transferred data is not shown.
: Thai, Arabic, Persian, Hebrew, Kurdish

• When playing a media file which is not supported by the projector using the video plug-in, initial buffering may take longer because of conversion on the computer.
The conversion performance in the computer may be different depending on the computer performance or network speed.

• The supported formats for playing the files on the computer (Movie, projector Show, Music) are the same with DLNA.

• Playing a specific clip is not supported during music playback. (Same as DLNA)

• If you play high definition video over Wi-Fi, it may not play properly because of low network speed.

• The projector may not detect a computer when a router is used because of the router settings.
(For example, if the "Tcast Forward" function is enabled in some routers, the projector cannot detect a computer if it is connected through Wi-Fi.)

• For some plug-ins, the media play may be restricted depending on its media format.

• A plug-in is subject to change without notice by its provider, or it may not be working.

Using the Premium Service

This service gives you easy access to a wide variety of content, such as news and UCC at any time, as long as you are connected to the Internet.
In addition to global contents, the premium contents are specialized based on the country you are in.

Using the Premium Service

1 Press the **HOME** button.

2 Go to **Premium**.

	Description
❶	Displays the screen you are currently watching.
❷	Selects the content.
❸	Adds a content to My Apps.

SmartShare™

Before Using

Connecting a USB Storage Device

Connect a USB storage device (external HDD or USB memory stick) to the USB port of the projector to view the content files stored on the USB device.
You cannot write or delete data in the USB storage device.
Connect a USB memory stick as shown below.

USB Memory Stick
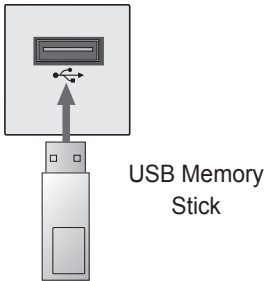
Removing a USB Storage Device

1 Press the **MY APPS** button.

2 Select **Q.MENU**.

3 Use the $<$ or $>$ button to move to **USB Device** and press the **OK** button.

4 Remove the USB device.

> **NOTE**
>
> • After the USB storage device is disconnected, it cannot be read. Remove the USB storage device and connect it again.

Tips for Using a USB Device

- A USB storage device installed using an automatic recognition program or its own driver might not be recognizable.
- Some USB devices may not be supported or will not work properly.
- Please use only a USB storage device formatted as a FAT32 or NTFS file system provided by Windows.
- It is recommended to use an external USB hard disk with rated voltage of 5V or less and rated current of 500mA or less.
- It is recommended to use a USB hub or hard disk drive with power supplied. (If the power supplied is not enough, the USB storage device may not be detected properly.)
- It is recommended to use a USB memory stick which is 32 GB or less and a USB hard drive which is 2 TB or less.
- If a USB external hard drive with the power saving function does not work, turn the hard drive off and on again to make it work properly. See the owner's manual of the USB hard drive for more information.
- The data of a USB device may be damaged, so it is recommended to backup any important files. Users are responsible for data management. The manufacturer bears no responsibility.

Supported Files for SmartShare™

- Maximum data transmission rate: 20 Mbps (Megabit per second)
- Supported external subtitle formats: *.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX)
- Supported internal subtitle formats: XSUB (subtitles from DivX6 are supported)

Connecting DLNA

Digital Living Network Alliance (DLNA) allows you to enjoy videos, music and photos saved on your PC or server using the Smart Projector through a home network.

Connecting the DLNA-Certified

Mobile Device

• Smart Projector and smartphone should be connected to the same network.

1 Enable Wi-Fi on the smartphone.

2 Install/run the app to share content on the smartphone.

3 Run "Share my mobile phone Content".

4 Select the kind of Content (video/music/photo) to play.

5 Select the video, music, or photo file to play on Smart Projector.

6 Select Add to Playlist.

7 On the device that you want to play the file, select the Smart Projector model. (You can find the Smart Projector model name on the product label.)

8 Play ▶ Enjoy the selected file on Smart Projector.

Connecting DLNA DMR (Digital

Media Renderer)

• With the Windows 7 or Window 8 PC operating system or DLNA-certified device (e.g. mobile phone), music/videos/photos may be played on the Smart Projector without installing a separate program.

1 Configure the Smart Projector and PC on the same network. Configure Windows 7 or Window 8-installed PC on the network.

2 To replay a music/video/photo file, right-click on the file and use the "Remote Playback" Windows 7 or Window 8 feature.
To play on your mobile device, refer to its user manual.

3 Content will be played in only one device even though more than one Smart Projector or device is connected. Play speed can vary depending on network speed.

Connecting DLNA DMP (Digital Media Player)

- With a PC having SmartShare™ PC Software, music/video/photo files may be replayed on the Smart Projector by linking them via home networking.

1 Configure the Smart Projector and the PC on the same network. Smart Projector and each device should be connected through a single access point to enable DLNA service.

2 Install SmartShare™ PC Software on PC from the web site. Before installation, close all running programs including firewall and Anti-Virus programs.

3 The sever should be running in order to watch shared files on your Smart Projector.

> **NOTE**
>
> - For how to use the SmartShare PC software, refer to the software help.
> - For the website information, go to ⌂HOME → SETTINGS → SUPPORT → Product/Service Info.

When DLNA is Malfunctioning

- Check your network settings when the DLNA option does not work properly.
- To watch the 1080p video through DLNA, a router that uses 5 GHz frequency is required. If a 2.4 GHz router is used, the video does not play properly.
- When playing a video in DLNA mode, the Multi Audio and Closed Caption features are not supported.
- If multiple TVs are connected to one server in the DLNA mode, the content may not be played properly depending on server performance.
- Subtitles are only supported on some DMC devices.
- The DLNA function may not work properly depending on the network environment.
- The DLNA function may not be supported for a router that does not support multi-cast. For more information, refer to the user guide that came with your router or contact to the manufacturer.
- Even for the file format supported by the projector, the supported file format may differ depending on the DLNA server environment.
- If there are too many folders or files in a folder, it may not work properly.
- The information on the file imported from the DLNA server may not be displayed correctly.
- To watch the video subtitles on the DLNA server, Nero MediaHome 4 Essentials is recommended.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM file and document file in the DLNA server are not played.

Using SmartShare™

1 Press the **HOME** button of the remote control.

2 Select **SmartShare™**.

You can open photos, music, videos, and documents form a USB file. You can open open photos, music, and videos from computers on your local network using DLNA and Media Link. The photo, music, video and document files of all devices connected to the projector are displayed. (For the document files, only those in the devices connected via USB are displayed.)

Watching Videos

In the Movie List, you can watch movies from a connected USB device.

Tips for Playing Videos

• Some subtitles created by a user may not work.
• A video file and its subtitle file must be located in the same folder. A video file name and its subtitle file name must be identical in order to display the subtitle properly.
• Streaming files which include Global Motion Compensation (GMC) or Quarterpel Motion Estimation (Qpel) is not supported.
• H.264/AVC profile level 4.1 or below is supported.
• The file sizes that can be played may be different depending on the encoding environment.
• Video files created by some encoders may not be played back.
• Video files in formats other than the ones specified here may not be played back.
• Videos stored on a USB device that does not support high-speed playback may not play properly.
• DTS audio is supported only for playback of USB video files.

Video Codec

Maximum supported resolution: 1920 x 1080 @30p

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

Controlling the Video Playback

You can control playback using the following buttons.

Tron Legacy 2010

00:58:23 / 01:58:23
DivX, 1280x720

■ ▶ ◀◀ ▶▶ 3D ⊙ Option ≣ List

Item	Description
◀ ▶	Shows the current playing position. You can use the $<$ or $>$ button to move forward or backward.
■	Stops playing and returns to Movie List.
▶	Resumes normal playback.
❚❚	Pauses the media player. If no button is pressed on the remote control for 10 minutes after pausing, playback is restarted.
	❚❚▶▶ Displays in slow motion.
◀◀ ▶▶	Whenever this button is pressed, the playback speed is changed.
3D	Switches to the 3D screen.
Option	Sets the option.
List	Stops the playback and returns to the list.

Viewing the Photos

You can view photos stored on a connected device.

Photo File

File Format	Item	Profile	
2D (jpeg, jpg, jpe) 3D (jps)	Supported format	SOF0: baseline SOF1: Extend Sequential SOF2: Progressive	
	Size	Min.	64 x 64
		Max.	Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H)
3D (mpo)	Supported format	mpo	
	Size	4:3	3,648 x 2,736 2,592 x 1,944 2,048 x 1,536
		3:2	3,648 x 2,432

Controlling the Photo Playback

You can control playback using the following buttons.

Item	Description
$<, >$	Selects the previous or next photo.
Slide show	If no picture is selected, all photos in the current folder are displayed in a slide show. If some photos are selected, those photos are displayed in a slide show. • Set **Slide Speed** in the **Option → Set Photo View** menu.
BGM	You can listen to music while viewing full-size photos. • Set **BGM** in the **Option → Set Photo View** menu.
↻	Rotates photos. • Rotates a photo 90°, 180°, 270°, 360° clockwise. • Photos cannot be rotated if their width is greater than the height of the maximum supported resolution.
Q	Enlarges or reduces the photo. Use the **Up/Down/Left/Right** buttons to select a page and press the **OK** button.
3D	Switches to the 3D screen.
Option	A setting popup window will appear.
List	Stops the playback and returns to the list.

Listening to Music

You can play audio files stored on the connected device.

Audio File

No	Audio Codec	Bit rate	Sampling rate	Remark
1	MP3	32 Kbps - 320 Kbps	16 kHz, 48 kHz	MPEG1, MPEG2, Layer2, Layer3

Controlling Music Playback

You can control playback using the following buttons.

Item	Description
◀ ▶	Changes the playing position.
■	Stops playing.
▶	Resumes normal playback.
◀◀ ▶▶	Plays the previous/next file.
⊐	Sets the repeat playback.
✖	Sets the random playback.
Option	Sets **Option** for the music list.
List	Returns to a list.

Viewing the Files

You can see document files stored on a connected device.

Supported File Formats

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

• 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 the document.
• Unsupported fonts may be replaced by other fonts.

Browsing File Viewer

You can control playback using the following buttons.
• Press the **Go Page** button to move to the previous or next page.
• Press the **VOL** button to **zoom in** or **zoom out**.
 1. Press the **OK** button.
 2. Press the **Up/Down/Left/Right** buttons to move to **Go Page** or **Zoom**.
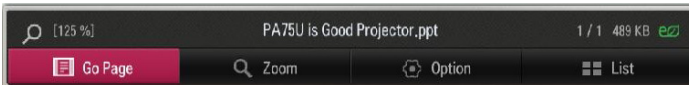
Item	Description
Go Page	Moves to the page you want.
Zoom	Enlarges or reduces the photo.
Option	Sets Option for File Viewer.
List	Returns to a list.

Using the Magical Mirroring Function

The magical mirroring feature is used to wirelessly transmit and project the screen of a network-connected laptop (PC) to a projector. To use this feature, the MirrorOp Sender, an application for PC, should be installed in the user's laptop (PC).
You can download this PC program from www.MirrorOp.com.
(To obtain a full-featured MirrorOp Sender program, a user should purchase one.)

Running Magical Mirroring

1 From the HOME screen, select **Magical Mirroring**.

⚠️ **CAUTION**

- Magical Mirroring is available only when a network is connected.
- When Magical Mirroring is running, only the following buttons are available on the remote control and control panel: Power, Volume, Previous and Exit.

2 After running Magical Mirroring, execute the MirrorOp Sender program on the computer.

3 In the Remote Box IP field of the MirrorOp Sender, enter the IP which is the same as the host IP of the Magical Mirroring and press **Connect**.

<PC Screen>
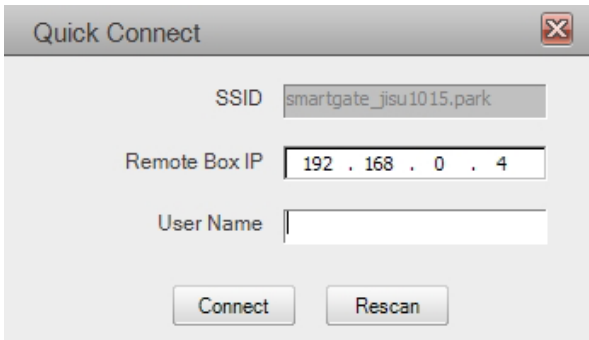
4 If MirrorOp Sender runs normally, the connected PCs are displayed in the Device List of Magical Mirroring as shown below. (All connected PCs are displayed.)

If MirrorOp Sender does not run, the Device List of Magical Mirroring is shown as follows. Check the network connection.

5 In the Device List, select a desired PC by pressing the Up/Down key and press the **OK** button.

⚠️ **CAUTION**

• While running Magical Mirroring, the video or audio transmitted from the PC may be interrupted due to PC performance or wireless network status.

MirrorOp Sender

Changing MirrorOp Mode

• Move the button to this position to change the transfer mode to **application mode**.

• Move the button to this position to change the transfer mode to **movie mode**.

Mode	Description
Application Mode	When MirrorOp is set to this mode, the software will transfer images with greater quality. When you run applications such as games, you can set to this mode. This mode requires broadband, so we suggest you use the wired network when using this mode.
Movie Mode	This mode is only for movies. When you play a movie on your PC, you can change to this mode. In this mode, the mouse and other applications do not work in real time.

Configuring MirrorOp

- Search Host
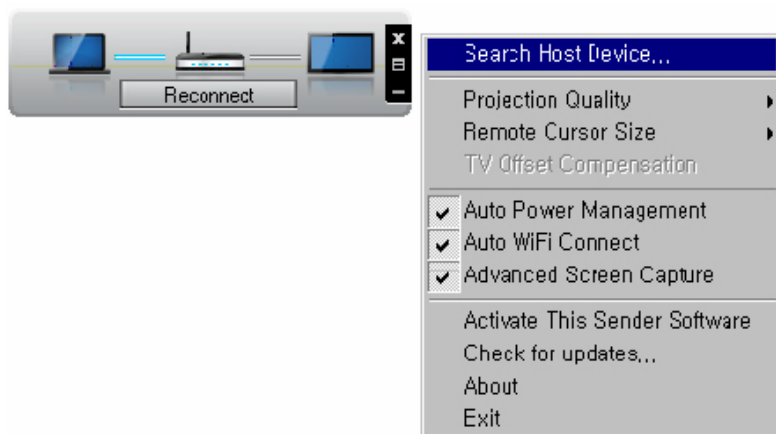
- Projection Quality
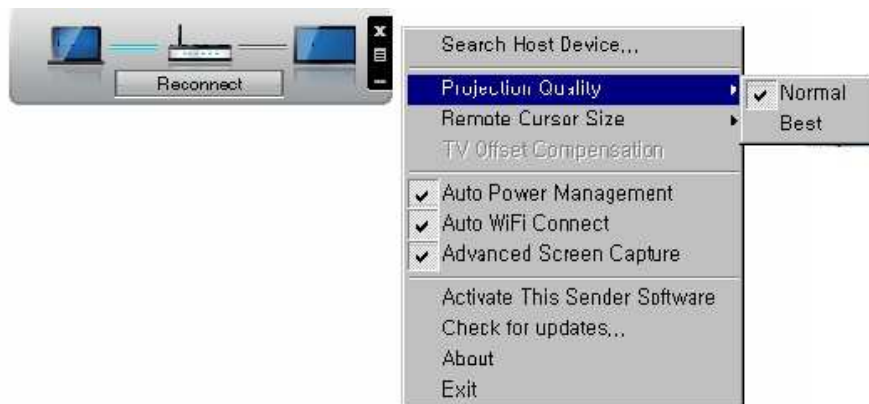
> **NOTE**
> • Using this option, you can select "Normal" or "Best" for the projection quality. If the network connection is good, select "Best"; if not, "Normal".

- TV Offset Compensation

- Auto Power Management
• When you use the Notebook to run the MirrorOp application, please choose this option. This option helps the notebook switch to the enabled mode. Your Wi-Fi network card will always work at an optimum level.

- Auto Wi-Fi Connect
• When you choose this option, your MirrorOp will automatically connect to the server and log in.

- Advanced Screen Capture
• Different PCs have different video output designs. When this option is not selected, some layers might not be captured, for example if you play a movie using a special media player. When you play a movie on your pc, and cannot see the picture on the projector, make sure to choose this option. With this option, the mouse pointer on the screen may appear as a double image; check to see if it does.

NOTE
• This option is used to adjust the vertical and horizontal display position. Please read the notice on the panel.

- Activate This Sender Software
• Buy a license or import the license if you already have one.

- Check for Updates
• Check the newest version on the network

System Requirements

CPU	Dual core 1.8 GHz or higher (excluding Atom processor)
Display Adaptor	nVIDIA or ATI graphic card with 64MB VRAM or above
Operating System	Windows Vista, Windows 7
Wi-Fi	802.11 n

3D FUNCTION

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

Before Watching 3D

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.
- If you are pregnant, a senior citizen, drunk, have heart problems, or easily feel motion sickness, we recommend that you do not watch 3D.
- 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.
- Prevent children of 5 years or younger from watching a 3D video. It may impair the development of their eyes.

- 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**

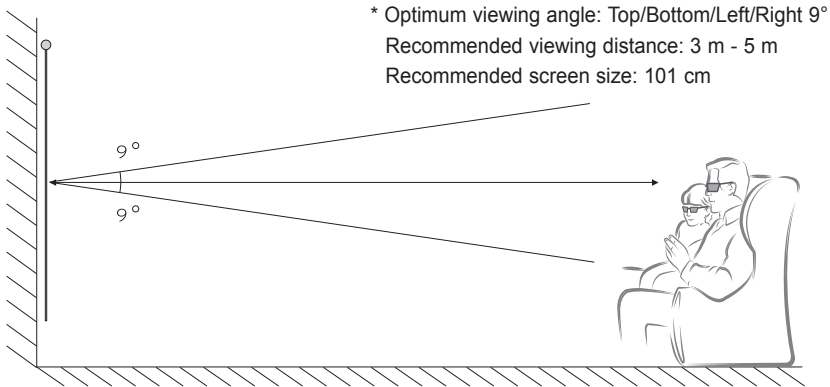• Extra special care is required for children watching a 3D video.

When Watching 3D Video

• 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 - 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.

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

* Optimum viewing angle: Top/Bottom/Left/Right 9°
Recommended viewing distance: 3 m - 5 m
Recommended screen size: 101 cm

9°
9°

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

* For 3D watching, set the energy saving mode to Minimum.

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

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

1 While watching 3D images from the projector, press buttons on the glasses.

2 When you press the button, the glasses flicker while synchronizing with the 3D images. (The flickering is a unique operation method of DLP-LINK type glasses. It may be different depending on the glasses type.)

3 If the glasses flicker or problems occur while watching 3D, first turn the lights off to make the room darker. Contact your projector seller for queries about the glasses.

Supported 3D Input Formats

3D Auto Conversion Formats

	Signal	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Supported 3D Formats
HDMI	1080p	54.00	24	F/P, L/A
		67.50	30	
		27.00	24	S/S, T&B, S/S Full
		33.75	30	
		67.50	60	S/S, T&B
	1080i	67.50	60	F/P, F/A
		33.75		S/S, T&B, S/S Full
	720P	90.00		F/P, L/A
		45.00		S/S, T&B, S/S Full
	480p	63.00		F/P,L/A
		31.50		T/B,S/S,S/S Full
USB	1080p	33.75	30	S/S, T&B, C/B, MPO (Photo)
DLNA				

	Supported 3D Formats
DTV	Dual Stream

S/S : Side by Side, T&B : Top & Bottom, F/P : Frame Packing, F/A : Field Alternative

L/A : Line Alternative, S/S Full : Side by Side Full, C/B : Checker Board

R/I : Row Interleaving, C/I : Column Interleaving, F/S : Single Frame Sequential

3D Manual Conversion Formats

	Signal	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Supported 3D Formats
HDMI-DTV	1080p	27.00	24	2D to 3D, S/S, T&B, C/B
		33.75	30	
		67.50	60	2D to 3D, S/S, T&B, C/B, F/S, R/I, C/I
	1080i	33.75		2D to 3D, S/S, T&B
	720P	45.00		2D to 3D, S/S, T&B, F/S
	Others	-	-	2D to 3D
HDMI-PC	1024 x 768	48.36	60	2D to 3D, S/S, T&B
	1920 x 1080	67.50		2D to 3D, S/S, T&B, C/B, F/S, R/I, C/I
	Others	-	-	2D to 3D
RGB-PC	1024 x 768	48.36	60	2D to 3D, S/S, T&B
	Others	-	-	2D to 3D
Component	1080p	27.00	24	2D to 3D, S/S, T&B
		33.75	30	
		67.50	60	
	1080i	33.75		
	720P	45.00		
	Others	-	-	2D to 3D
USB	1080p	33.75	30	2D to 3D, S/S, T&B, C/B, F/S, R/I, C/I (S/S, T&B for photos)
DLNA				

	Resolution	Supported 3D Formats
DTV	HD	2D to 3D, S/S, T&B
	SD	2D to 3D

S/S : Side by Side, T&B : Top & Bottom, F/P : Frame Packing, F/A : Field Alternative
L/A : Line Alternative, S/S Full : Side by Side Full, C/B : Checker Board
R/I : Row Interleaving, C/I : Column Interleaving, F/S : Single Frame Sequential

Watching 3D Images

1 Play supported 3D video titles.

2 For RGB-PC, you must press **AUTO** on the remote control before watching 3D video.

3 Press the **3D** button.

4 While watching 3D images from the projector, press the button on the glasses.

5 Select a screen with better 3D display quality.

• If you press the 3D button during viewing, it returns to 2D.

CUSTOMIZING SETTINGS

Settings Menu

1 Press the **SETTINGS** button.
2 Use the ∧, ∨, < or > button to select a desired item and press the **OK** button.
3 Use the ∧, ∨, < or > button to set up a 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.
	Channel	Sets up or edits a channel.
	TIME	Sets the time and time-related features.
	LOCK	Locks or unlocks a channel or a program.
	OPTION	Customizes the general settings.
	NETWORK	Sets the network.
	SUPPORT	Shows the projector information.

PICTURE Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **PICTURE** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.
- To return to the previous menu, press the ↰ button.

```
┌─────────────────────────────────────┐
│ 🖥  PICTURE                      [x] │
│ 🖥                   ∧               │
│ ◎   •  e⌀ Energy Saving : Medium    │
│ ⊙   •  3D Settings                  │
│ ⏱   •  Picture Mode  : Vivid        │
│ 👤        •  Contrast      50 �▭▭    │
│ ☰        •  Brightness    50 ▭▭    │
│ 🌐       •  Sharpness      5 ▮      │
│ ⓘ        •  Color         70 ▭▭▭   │
│                     ∨               │
└─────────────────────────────────────┘
```
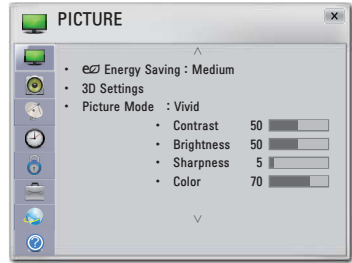
The available picture settings are described as follows.

Item	Description	
Energy Saving	Adjusts the brightness.	
3D Settings	Selects 3D mode.	
Picture Mode	Selects one of the preset images or customizes options in each mode for the best screen performance. You can also customize advanced options for each mode.	
	Mode	
	Vivid	Maximizes the visual effect of video. Displays a crystal clear picture by enhancing contrast, brightness, and sharpness.
	Standard	Displays the picture with normal contrast, brightness and sharpness.
	Cinema	Optimizes the image for a movie.
	Game	Optimizes the image for playing games on fast-moving screens.
	Expert1/2	Adjusts the detailed image settings.
Contrast	Increases or decreases the gradient of the video signal.	
Brightness	Adjusts the base level of the video signal to make the image brighter or darker.	
Sharpness	Adjusts the level of edge sharpness between the light and dark areas of the picture. The lower the level is, the softer the image looks. Horizontal and Vertical Sharpness are available only in Expert1/2.	
Color	Adjusts the intensity of all colors.	
Tint	Adjusts the balance between red and green levels.	

Item	Description
Advanced Control	Customizes the advanced settings.
Picture Option	Sets optional settings.
Picture Reset	Restores each mode's options to the factory default.
Aspect Ratio	Changed the image size to view images at its optimal size.
Picture Wizard II	By following the instructions, using the remote control, you can easily adjust the picture quality to technical standards without needing an expensive pattern device or a picture quality expert.

Item		Description
Screen (RGB-PC)	Adjusts the picture quality in RGB-PC input.	
	Item	
	Resolution	Available resolutions are 768 resolution (1024 x 768/1280x768/1360x768, 60Hz) and 1050 resolution (1400x1050/1680x1050, 60Hz).
	Auto Config.	Provides optimized picture quality by automatically calibrating mismatched horizontal width and a shaky picture caused by conflicts between the internal settin gs of the projector and various PC graphic signals. • You can also use the **AUTO** button on the remote control.
	Position	Moves the image up/down/left/right.
	Size	Changes the screen size.
	Phase	Makes the picture look clear by removing horizontal noise.
	Reset	Restores all the settings to the factory default.

Advanced Control

Item	Description
Dynamic Contrast	Adjusts the contrast to keep it at the best level for the brightness of the screen.
Dynamic Color	Adjusts screen colors so that they look natural.
Clear White	Makes the white area of the screen look brighter and whiter.

Item	Description	
Preferred Color	**Skin Color**	Adjusts the skin color in the picture to your preference.
	Grass Color	Adjusts only the natural color area of e.g., field and mountain.
	Sky Color	Adjusts only the color of the sky.
Super Resolution	Improves blurry and unclear parts in the picture to make the picture more vivid.	
Color Temperature	Adjusts the overall color of the screen as you want. You can select **Warm, Cool, Medium, Purity or Natural**.	
Gamma	Sets a gradation curve between video input and output signal.	
Color Gamut	Selects the range of colors to display. • **Standard**: Displays the original colors of an input signal regardless of the display features. • **Wide**: Sets to use the rich colors of the display.	
Edge Enhancer	Provides much sharper and clearer edges to the picture.	
xvYCC	Displays much richer colors.	
Color Filter	Accurately adjusts color and tint by filtering a specific color area of RGB space.	
Expert Pattern	Displays the patterns necessary for expert adjustment.	
WHITE BALANCE	Adjusts white balance. Detailed adjustment is possible as shown below. • Color Temperature: You can select Warm, Cool, Medium, Purity or Natural.	
	a. **Method**: **2 points** - **Pattern**: **Inner**, **Outer** - **Contrast Red/Green/Blue**, **Brightness Red/Green/Blue**: Adjustable range **-50** - **+50**. b. **Method**: **20 point IRE** - **Pattern**: **Inner**, **Outer** - **Institute of Radio Engineers** (IRE) is the unit indicating the size of a video signal and can be set to **5, 10, 15, ... 100**. You can fine-tune for each setting as shown below. - **Luminance**: If you set up luminance for 100 IRE, a luminance value satisfying each gamma is automatically calculated for each step from 10 IRE to 90 IRE. - **Red/Green/Blue**: The adjustment range is **-50** - **+50**.	

Item	Description
Color Management system	Adjusts Red/Green/Blue/Yellow/Cyan/Magenta colors. Allows an expert to adjust the tint using a test pattern. Six colors (Red/Green/Blue/Cyan/Magenta/Yellow) can be selectively adjusted without affecting other colors.
	You may not see colors change on a normal picture even after adjustment. - **Chroma Red/Green/Blue/Yellow/Cyan/Magenta**, **Tone Red/Green/Blue/Yellow/Cyan, Magenta**: The adjustment range is **-30** - **+30** each.

* Available options may differ depending on the input signal or video mode, etc.

Picture Option

Item	Description		
Noise Reduction	Removes noises in the picture.		
MPEG Noise Reduction	Reduces the noise produced while creating digital video signals.		
Black Level	Compensates the brightness and contrast of a screen to balance with the black level of the video input.		
Real Cinema	Provides optimal picture quality for watching a movie.		
TruMotion	Makes the picture look smooth by compensating it.		
	Mode		
	Smooth	The De-Judder value is set to 3.	
	Clear	The De-Judder value is set to 7.	
	User	• You can set this function manually. **De-Judder:** Adjusts the juddering on a screen.	

* If the video signal is 60 Hz, TruMotion may not work.

SOUND Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **SOUND** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.

   - To return to the previous menu, press the ⤺ button.

```
┌─────────────────────────────────┐
│ ⊙ SOUND                      [x] │
│ ▭                                │
│ ⊙    • Sound Mode  : Standard    │
│ ◎              •  User EQ        │
│ ⊙    • Volume Mode               │
│ ⊙    • Virtual Surround : Off    │
│ ⊙    • Clear Voice II   : Off ◖2 │
│ ▤    • AV Sync  : Off            │
│ ⊙    • Sound Setting             │
│ ⊙                                │
└─────────────────────────────────┘
```

The available audio settings are described as follows.

Item	Description
Sound Mode	Sets the sound mode.
User EQ	Allows you to adjust the treble and bass sound.
Volume Mode	Sets the projector volume.
Virtual Surround	Provides realistic stereo sound.
Clear Voice II	Makes the voice from the projector crisp and clear.
AV Sync	Allows you to manually adjust picture and audio when they are not synced.
Sound Setting	Balances the sound.

CHANNEL Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **CHANNEL** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.

- To return to the previous menu, press the ⍉ button.

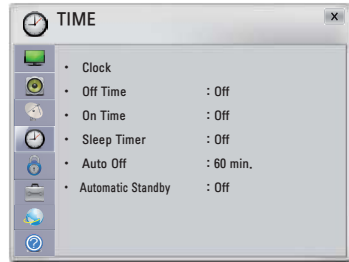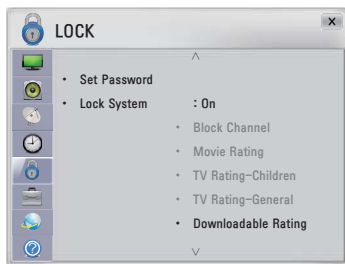The available channel settings are described below.

Item	Description
Auto Tuning	Remembers a channel which is currently broadcasting. Be sure to use this function when you move to another house or move the projector to other place. It must be used while the antenna is connected and there are channel broadcasting signals.
Manual Tuning	Checks a channel signal, deletes or remembers a channel.
Channel Edit	Deletes or remembers a channel.

TIME Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **TIME** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.

- To return to the previous menu, press the ↰ button.

⏱ TIME		✕
🖥	• Clock	
◎	• Off Time	: Off
🕐	• On Time	: Off
⏱	• Sleep Timer	: Off
⏲	• Auto Off	: 60 min.
🗂	• Automatic Standby	: Off
🌐		
❓		

The available time settings are described as follows.

Item	Description
Clock	You can check or change the time while using the projector.
Off Time /On Time	You can set the On/Off Time for the projector. 🛈 **NOTE** • This works normally only when the current time is configured. If **Off Time** and **On Time** are the same, **Sleep** takes priority when the projector is on and **Power On** takes priority when the projector is off. • Although the projector can be turned on by the **On Time** function, it is automatically turned off if no button is pressed within 120 minutes. This is a convenient function if you are away from your home for a long period of time.
Sleep Timer	The projector is turned off at the preset time.
Auto Off	If there is no signal, the projector automatically turns off after the preset time has elapsed.
Automatic Standby	Turns off the projector automatically if there is no input for the given time.

LOCK Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **LOCK** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.
- To return to the previous menu, press the ↰ button.

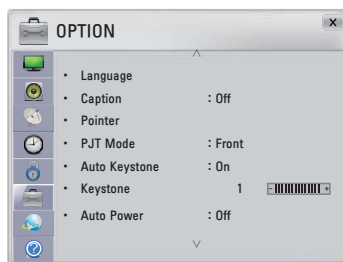|	LOCK	✕
	∧	
	• Set Password	
	• Lock System	: On
	• Block Channel	
	• Movie Rating	
	• TV Rating−Children	
	• TV Rating−General	
	• **Downloadable Rating**	
	∨	

The available lock settings are described below.

Setting	Description
Set Password	Changes the 4-digit password. The default PIN is "0 0 0 0". If you forget your password, press "0-3-2-5" on the remote control.
Lock System	Activates or deactivates the lock system.
Block Channel	Blocks the channels that contain inappropriate contents for children. The channels can be selected but the screen is blank and the audio is muted. To watch a locked channel, enter the password.
Movie rating	Blocks the movies that are only broadcasted on the projector and contain inappropriate contents, based on the Motion Picture Association of America (MPAA) rating.
	Rating
	G — General audiences – All ages admitted
	PG — Parental guidance suggested – Some material may not be suitable for children
	PG-13 — Patents strongly cautioned – Some material may be inappropriate for children under 13
	R — Restricted – Under 17 requires accompanying parent or adult guardian
	NC-17 — No one 17 and under admitted.
	X — Adults only
	Blocking Off — Permits all programs
TV Rating-Children	Blocks the children's TV programs that parents do not want their children to watch. To block other TV programs, you should set the **TV Rating-General** feature.
	Rating
	Age — Applies to TV-Y, TV-Y7
	Fantasy Violence — Applies to TV-Y7

Setting	Description	
TV Rating-General	Blocks the TV programs that you want based on the ratings by using the Parental Control Function (V-Chip).	
	① NOTE • The V-Chip electronically reads TV program ratings and allows parents to block program that are unsuitable for children.	
	Rating	
	Age	Applies to TV-G, TV-PG, TV-14, TV-MA.
	Dialogue	(Sexual dialogue) applies to TV-PG, TV-14.
	Language	(Adult language) applies to TV-PG, TV-14, TV-MA.
	Sex	(Sexual situations) applies to TV-PG, TV-14, TV-MA.
	Violence	Applies to TV-PG, TV-14, TV-MA.
Downloadable Rating	This function operates only when the projector has received Region5 Rating data. The name of the rating option may differ.	
	① NOTE • This feature is available only for digital channels.	
Input Block	Block the input sources.	

OPTION Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **OPTION** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.
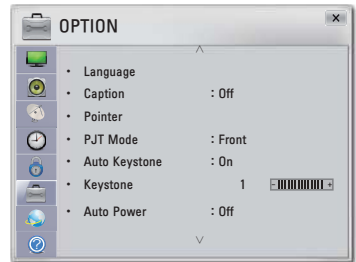   - To return to the previous menu, press the ⤺ button.

🖼 OPTION		✕
🖥	• Language	
◎	• Caption	: Off
🔍	• Pointer	
⏰	• PJT Mode	: Front
🔘	• Auto Keystone	: On
📄	• Keystone	1 ▭▯▯▯▯▯▯▯▯▯▯▯▯
🌐	• Auto Power	: Off
ⓘ		

The available option settings are described below.

Item	Description	
Language	Selects the desired language.	
Caption	If a broadcasting station transmits a digital bilingual signal, you can select a desired language. This will be the default language used when the power is on or a channel is changed. If there is no information for a selected foreign language, it is displayed in English	
	Digital Subtitle Settings (For digital broadcasting)	
	Size	Selects the size of a subtitle.
	Font	Selects the font of a subtitle.
	Text Color	Selects the color of a subtitle.
	Text Opacity	Selects the transparency of a subtitle.
	Bg Color	Selects the background color of a subtitle.
	Bg Opacity	Selects the transparency of a subtitle background.
	Edge Type	Selects the frame type of a subtitle.
	Edge Color	Selects the frame color of a subtitle.
Pointer	Selects a desired pointer.	
	Speed	Sets the move speed of a pointer.
	Shape	Selects the pointer shape.
	Size	Selects the pointer size.
	Alignment	Enable this option. While using the magic remote control, if the pointing position of the remote control and the actual pointer position do not match, shake the magic remote control to the left and right. The pointer automatically moves to the center of screen to match the movement.

Item	Description	
PJT Mode	Turns the projected image upside down or flips it horizontally.	
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.
Keystone	Compensates for the trapezoidal image shape created when projecting an image from an angle not perpendicular to the screen.	
Auto Power	Makes the projector turn on automatically when the power cord is connected.	
	Item	
	On	When the power cord is connected to the projector, it turns on automatically.
	Off	When the power cord is connected to the projector, it goes into standby mode.
High Altitude	If the projector is used at an altitude higher than 1200 meters, turn this option on. When **High Altitude** is not enabled, 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.	
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).	
Balloon Help	Enables/disables the balloon help.	
Smart Projector Setting	Manages the smart projector settings or IDs.	
Initial Setting	Resets all projector settings to the factory default.	

NETWORK Settings

1 Press the **SETTINGS** button.

2 Press the ∧ or ∨ button to select **NETWORK** and press the **OK** button.

3 Use the ∧, ∨, < or > button to set up a desired item and press the **OK** button.
- To return to the previous menu, press the ⤺ button.

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

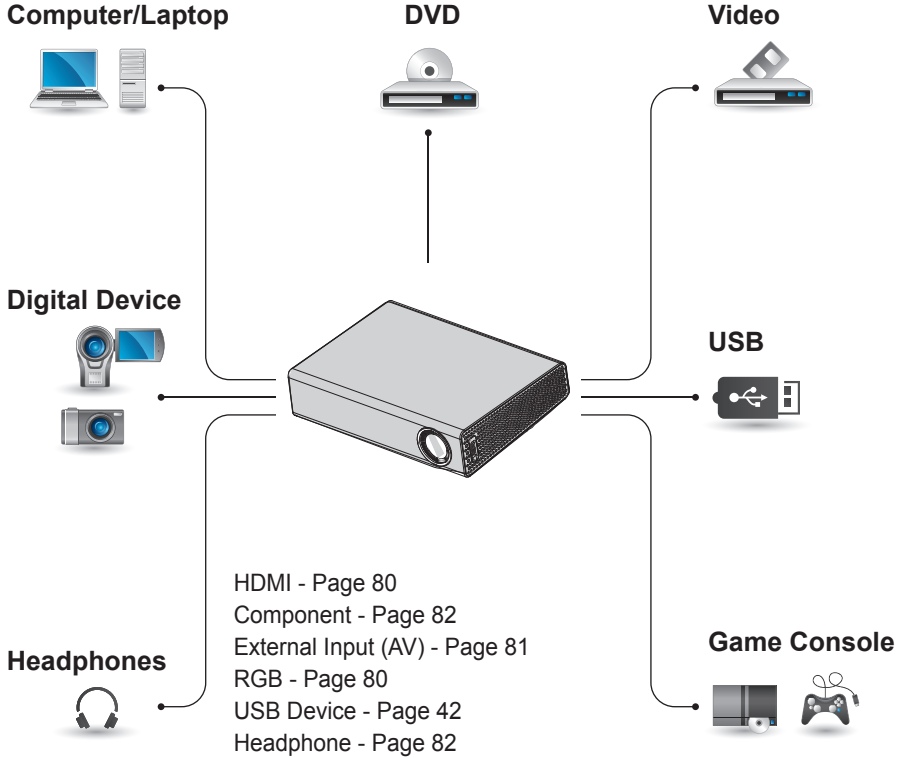| OPTION	☒
• Language	
• Caption	: Off
• Pointer	
• PJT Mode	: Front
• Auto Keystone	: On
• Keystone	1
• Auto Power	: Off

The available network settings are described below.

Item	Description
Network Connection	Connects a wireless network.
Network status	Checks the status of wireless network.
Wi-Fi Screen Share	Wi-Fi Screen Share supports wireless connection technology, such as Wi-Fi Direct and WiDi. You can share the file and screen of the devices connected by the Wi-Fi Screen Share on the SmartShare™.
Smart Share Setting	Changes the settings for SmartShare™.

CONNECTING EXTERNAL DEVICES

You can connect various external devices to the projector.

Computer/Laptop

DVD

Video

Digital Device

USB

HDMI - Page 80
Component - Page 82
External Input (AV) - Page 81
RGB - Page 80
USB Device - Page 42
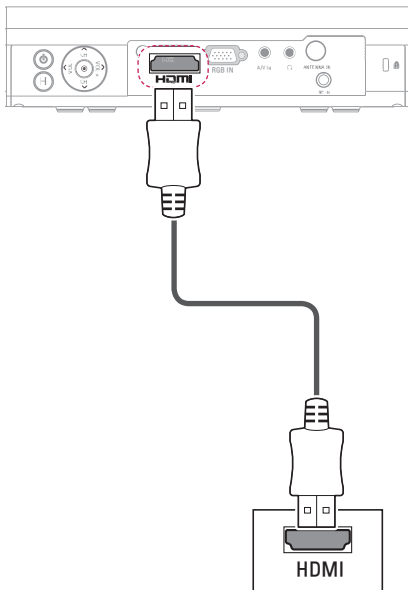Headphone - Page 82

Headphones

Game Console

Connecting HD Receiver, DVD Player, or VCR

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

HDMI Connection

With an HDMI cable, you can enjoy high quality picture and sound. Press the **INPUT** button on the remote control to select **HDMI**.
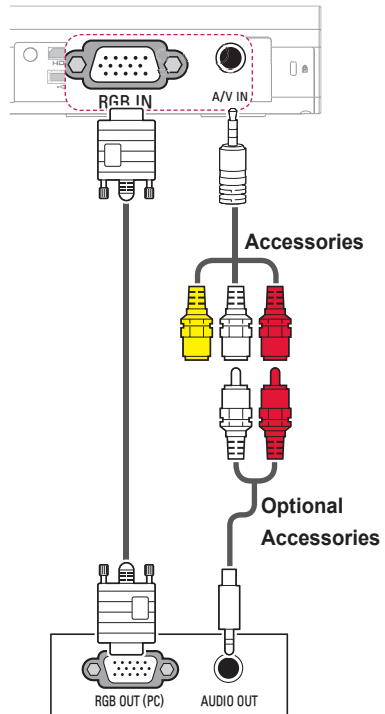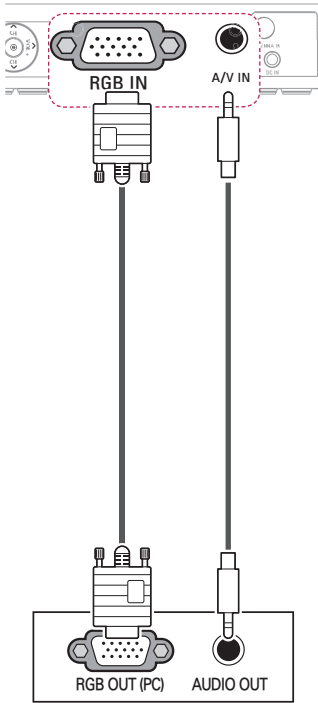
Connecting PC

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

RGB Connection

Connect the PC output and the RGB IN input port of the projector with the RGB cable. For audio signal, connect the PC and the projector with an optional audio cable.
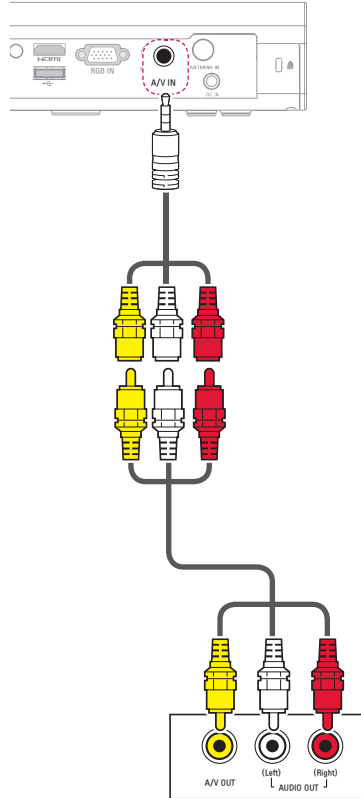
You can connect the audio cable without using a gender as shown in the illustration above.

Connecting AV

Connect the output ports of an external device and the A/V IN port of the projector. Press the **INPUT** button to select **AV**.
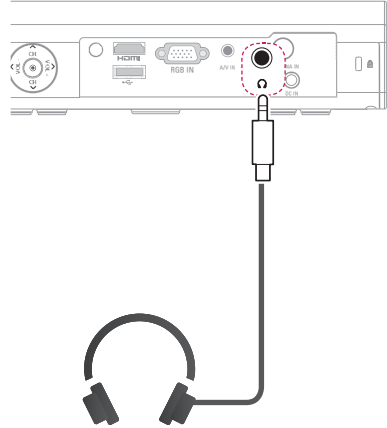
Component Connection

You can enjoy vivid images when you connect an external device with a component port to the RGB IN port of the projector. Press the **INPUT** button on the remote control to select **Component**. Purchase an RGB to component cable and use it.
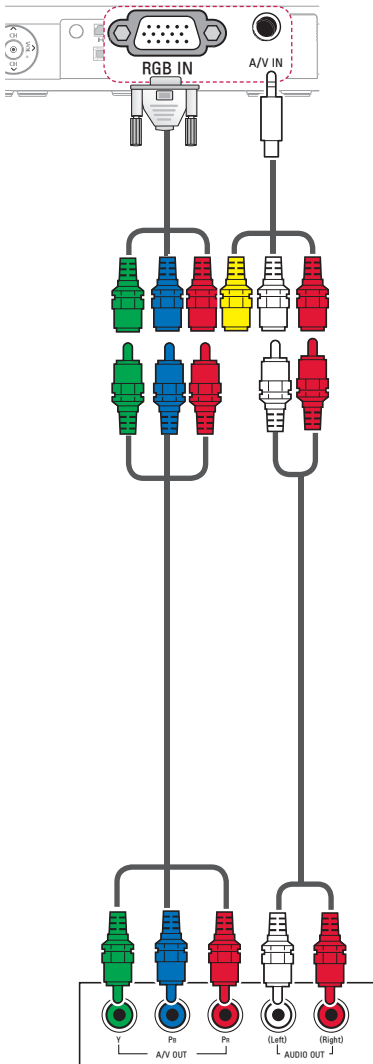
Connecting Headphones

You can listen to the audio through headphones.

Connecting a Laptop

You can connect the projector to a laptop to use various functions.
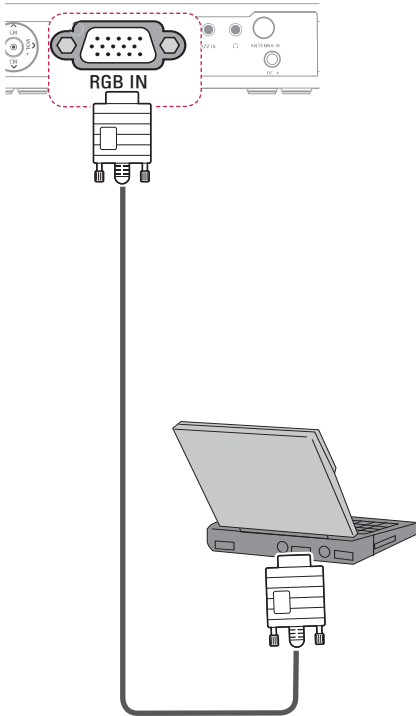
The table below shows examples of switching the output. For more information, refer to the "External Output", "Connecting to an External Monitor", or similar sections of the owner's manual of your computer.

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.

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.

How to Fix the Lens Cap

1 Prepare the lens cap and the strap supplied as accessories.

2 Insert the end of the strap into the hole at the bottom of the lens section of the projector. Attach the strap to the projector by inserting and pulling the other end of the strap into the other end.
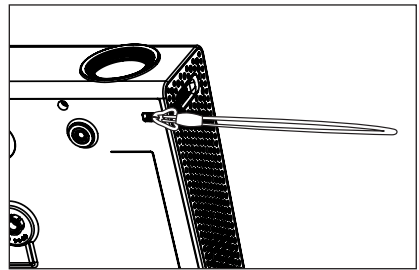
3 Insert the other end of the strap into the hole of the lens cap, and then pass the lens cap through the strap.
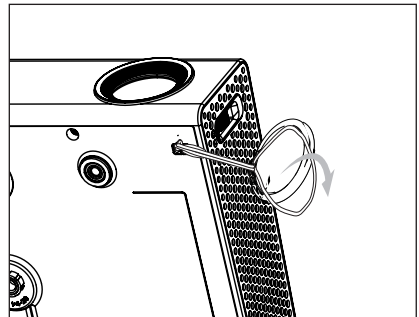
Updating the Software

When a software update is required, run the software update to obtain the latest software version.
You can manually check for and download any software updates.

1 On the **HOME** screen, press the **SETTINGS** button.
2 Select **SUPPORT** and go to **Software Update**.

Item	Description
Software Update	Enable this option. When an update file is found, it is downloaded automatically.When the update file has finished downloading, a software update window appears.
Check Update Version	If an update file of a higher version exists after checking the latest update version, you can proceed with the update manually.

• The update service to get the latest version is provided through an Internet connection.
• If the software is not updated, some functions may not work well.

Smart Projector FAQ

Problem	Troubleshooting
Whenever I enter a menu, the 'Initializing' message is always displayed.	The 'Initializing' message indicates the CPU and hardware booting time, network communication setup, or communication time with SDP (device authorization and basic information download). It normally takes about 20 seconds.
No contents are shown in the premium card.	If the country setting is changed in the Smart Projector Setting menu, the contents may not be displayed. Go to HOME ➜ SETTINGS ➜ OPTION ➜ Smart Projector Setting ➜ Smart Projector Country and then change the country as you want.
Some spaces are not visible for a specific website when using the Internet.	In this projector, the Internet supports up to Flash 10. Some formats other than the following formats may be restricted to play : JPEG, PNG, GIF, WMV (ASF), WMA, MP3, MP4.
The Internet is automatically shut down when I visit a website.	The Internet may be forced to shut down if the memory size is insufficient to accommodate the image information of a website.

WIRELESS SPECIFICATIONS

Wireless LAN Module (TWFM-B003D) Specifications

Standard	**IEEE802.11a/b/g/n**
Frequency Range	2400 MHz to 2483.5 MHz 5150 MHz to 5250 MHz 5725 MHz to 5850 MHz
Modulation	CCK / OFDM / MIMO
Output Power (Typical)	802.11a: 15 dBm 802.11b: 14 dBm 802.11g: 17 dBm 802.11n - 2.4 GHz: 17 dBm 802.11n - 5 GHz: 15 dBm
Data Rate	802.11a/g: 54 Mbps 802.11b: 11 Mbps 802.11n: 300 Mbps
Antenna Gain (Typical)	2400 MHz to 2483.5 MHz: -2.5 dBi 5150 MHz to 5250 MHz: -2.2 dBi 5725 MHz to 5850 MHz: -2.9 dBi
Occupied Bandwidth	802.11a/b/g: HT20 802.11n: HT20/40

Because the band channel used by the country could be different, the user cannot change or adjust the operating frequency and this product is set for the regional frequency table.

- FCC ID of Wi-Fi module inside Projector
  FCC ID: BEJTWFMB003D

CE ①

Bluetooth Module (BM-LDS302) Specifications

Standard	Bluetooth Version 3.0
Frequency Range	2400 MHz - 2483.5 MHz
Output Power (Max.)	10 dBm or lower
Data rate (Max.)	3 Mbps
Communication Distance	Line of Open Sight approx. 10 m

• FCC ID of Bluetooth module inside Projector
  FCC ID: BEJLDS302

$C\,\epsilon$

SPECIFICATIONS

MODELS		PA75U (PA75U-JE)
Resolution (Pixel)		1280 (Horizontal) × 800 (Vertical)
Aspect ratio		16:10 (Horizontal:Vertical)
Panel size (mm)		11.623
Projection distance (Video size)		0.90 m-3.06 m (76.2 cm - 254.0 cm)
Ratio of upward projection		100 %
Working range of the remote control		6 m
AC-DC Adaptor		19.5 V, 7.18 A
Audio output		3 W + 3 W
Reception type		NTSC, ATSC
Reception channels	Cable	VHF 2 - 13, UHF 14 - 69, CATV 1 - 135, DTV 2 - 69, CADTV 1 - 135
	Antenna	UHF 14 - 69
External Antenna Impedance		75 Ω
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)		1350
USB Device		5 V, 0.5 A (Max.)
Operation environment		Temperature
	Operation	0 °C to 40 °C
	Storage	-20 °C to 60 °C
		Relative humidity
	Operation	0 % - 80 %
	Storage	0 % - 85 %

Supported Monitor Display

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1152 x 864	54.348	60.053
1280 x 800	49.68	60
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 Mode" will be displayed.
- The projector supports the DDC1/2B type as the Plug & Play function (Auto-recognition of PC monitor).
- PC synchronization signal types supported: Separate type synchronization.
- In PC mode, 1280x800 is recommended for the best picture quality.

HDMI/DVI-DTV mode supported

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480	31.47 31.47 31.5	60 59.94 60
1280 x 720	44.96 45	59.94 60
1920 x 1080	33.75 33.72 67.5 67.432 27 26.97 33.75 33.71	60 59.94 60 59.939 24 23.976 30 29.97

Component Port Connection

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

Open Source software Information

To obtain the source code under the GPL, LGPL, MPL and other open source licenses, which are contained in this product, please visit

http://opensource.lge.com.

In addition to the source code, all referenced license terms, warranty disclaimers and copyright notices are available for download.
If you send an email to opensource@lge.com to request the open source code of the software installed on the projector within three years of purchase, we will send you a CD-ROM containing the open source code. You will only be charged a minimum for packaging and delivery.

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 _____