



OWNER'S MANUAL

# LG CineBeam Laser 4K

DLP Projector

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Please read the safety information carefully before using this product.

AU810PB  
HU810PW

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

P/NO : SAC37813585 (2112-REV01)

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# LICENSES

Supported licenses may differ by model. For more information about licenses, visit [www.lg.com](http://www.lg.com).



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# QUICKSET®

# HEVC Advance™

Covered by patents at [patentlist.accessadvance.com](http://patentlist.accessadvance.com)

## ! NOTE

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

# Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com).

This offer is valid for a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

# SAFETY PRECAUTIONS

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

Child injuries can be prevented by following these simple safety precautions.

The precautions should be followed in the same manner when you store or move your existing 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 personal injury or product damage.
- Read the owner's manual carefully and keep it on hand.



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



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

## **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 install products including projectors and remote controls in the following places:**

- Any place exposed to direct sunlight;
  - Any humid place such as bathroom;
  - Any place near hot objects such as flammables and stoves;
  - Any place where oil, oil mist, and steam can reach such as a worktop or places near a humidifier;
  - Any place where water can splash like a vase or the aquarium;
  - Any place that is dusty or exposed to wind and rain;
  - Any place that is under the air conditioner or is directly exposed to the wind from the air conditioner;
  - Any place near flammable materials such as flammable sprays, etc.; or
  - Any cupboard, bookcase shelf or cabinet without a fixture installed and any place where a pet can access.
- It may cause an electric shock, fire, malfunction, deformation or falling.

**Be careful not to drop the projector when connecting an external device.**

- It may cause injury or damage to the product.

**Keep the following precautions in mind to prevent the temperature rise inside the projector:**

- Install the air vents at least 30 cm (11.8 inches) away from the wall.
- Do not install the product in a place where it cannot be ventilated, such as on a bookcase or in a closet.
- Do not install the product on carpet or cushion.
- Make sure that the air vents are not blocked with tablecloths, curtains, etc.
- It may cause a fire.

**For places where oil or oil mist can reach, do not install the product on a wall or ceiling.**

- The product may be damaged and fall.

**Do not allow a child to hang or climb on the installed projector.**

- The projector may fall and cause injury or death.

 **CAUTION**

**When moving the projector, be sure to turn off the power switch and disconnect the power plug, antenna cable and the connection cord between the devices.**

- A failure to do so may cause damage to the projector or the cord, resulting in a fire or electric shock.

**Do not install the projector on a shaky shelf, a slanted place, a place subject to vibrations, a place where the projector is not fully supported or on a fabric such as tablecloths.**

- It may cause injury as the projector falls or tips over, or it may cause a malfunction of the projector.

**To prevent damage to the power cord or plug, do not install the projector where the cord can be walked on.**

- It may cause a fire or electric shock.

**When installing the projector, do not install it too close to the wall.**

- The cable connection may be deteriorated or the projector and its cables may be damaged.

**When installing the projector on a cabinet or a shelf, make sure that the front end of the bottom of the projector does not come out.**

- The projector may fall due to the unbalance of the center of gravity and cause injury to people or a malfunction.



## When in Use

### WARNING

**When thunder or lightning strikes, unplug the power cord and do not touch the antenna wire.**

- It may cause an electric shock.

**If there is a gas leak from the gas lines, do not touch the outlet and be sure to vent by opening the window.**

- Sparks may be caused and lead to a fire or burns.

**When using the product with an external device connected such as a games console, make sure the connection cable is long enough.**

- The product may fall over and cause injury or product damage.

**Do not scratch or give an impact on the projector with metallic materials or objects.**

- It may cause injury to people or damage to the product.

**Do not insert metallic objects including coins, hairpins or a piece of iron or flammable objects such as paper or matches into the projector.**

- It may cause a fire or electric shock.

**When replacing the batteries used for the remote control, be careful not to let children eat them and keep the batteries out of reach of children.**

- If a child swallows the battery, consult a doctor immediately.

**Keep the plastic wrapping of the product out of the reach of children.**

- If a child misuses it, it may suffocate the child.

**Do not touch near the vents during the operation or immediately after the power is turned off as they generate intense heat.**

- The heat does not indicate a defect or a problem of the projector when it is operating so use it with confidence.

**Do not look into the front of the lens when the projector is operating. Strong light is projected from the product which can cause injury to your eyes.**

**Never try to disassemble or modify the projector yourself. Always seek a qualified service technician or consult your dealer or local Service Center for inspection, adjustment or repairs.**

- It may cause a fire or electric shock.

 CAUTION

**Do not use any product that uses high voltage electricity near the projector. (e.g. An electric fly swatter)**

- It may cause a malfunction.

**Do not place any liquid containers such as a vase, pot, cup, cosmetics or medicine, decorations such as candles or any heavy objects on top of the projector.**

- Doing so may cause a fire, electric shock and injury due to falling.

**The surface of the AC adapter is hot, so be careful not to put the surface against your skin or let the children touch the surface during use. (Except for the models that do not use an adapter)**

**Do not hold or move the projector upside down by grabbing only the power cord, signal cable, or projection mirror.**

- Doing so may damage the product or cause an electric shock or fire.

**Even if the projector is turned off with the remote control or the button, the power is not completely cut off if the power cord is plugged in.**

**If you use headphones or earphones, do not use them at high volume or for a long period of time. (It applies only to the models that support headphones (earphones).)**

- Doing so may damage your hearing.

**Do not start the projector when the volume is high.**

- A loud volume can cause hearing loss.

**Do not use or store the projector outdoors for an extended period of time.**

**Do not touch the projector's lens or give an impact on it.**

- It may cause damage to the product.

**Do not block the light from the projector lens with a person, book or other objects.**

- If the light from the projector shines on an object for a long time, it can cause fire due to the heat of such light. Also, the reflected light can heat the lens and cause damage to the projector.

**Do not mix old and new batteries together.**

- It may cause battery rupture or fire due to liquid leakage or may cause electrical shock.

**When replacing the batteries, make sure that they are properly installed according to the polarities (+, -).**

- Battery rupture or leakage may lead to fire, explosion, injury or contamination (damage) of the surrounding area.

**Do not expose the batteries to direct sunlight, fireplace, electric heater, high temperature above 60 °C (140 °F), excessively humid places or excessive heat.**

- It can cause an explosion or fire.

**Do not throw or disassemble the battery.**

- It can cause a fire and explosion due to battery damage.

**Do not carelessly throw away old batteries.**

- It can cause an explosion or fire. The disposal method may vary by country and region. Dispose of it in an appropriate manner.

**Risk of fire or explosion if the battery is replaced by an incorrect type.**

**Supervise children and to never allow them to stare into the projector beam at any distance from the projector.**

**Use caution when using the remote control for staring the projector while in front of the projection lens.**

**The user to avoid the use of optical aids such as binoculars or telescopes inside the beam.**

## **Power**

### **⚠ WARNING**

**Make sure the power plug is securely plugged in to prevent it from shaking.**

- If the connection is unstable, it may cause a fire.

**Do not plug too many devices into one multi-power outlet.**

- This may result in fire due to the power outlet overheating.

**Do not insert a metal object such as chopsticks into the other end of the power plug while it is plugged into a wall outlet. Also, do not touch the power plug immediately after unplugging it from the outlet.**

- It can cause an electric shock.

**Connect the power plug to a grounded outlet or multi-tap. (Except for any device without ground connection)**

- A failure to do so may cause an electric shock due to a malfunction or electrical short.

**Never touch the power plug with wet hands.**

- It may cause an electric shock.

**Disconnect the power plug from the outlet when you are not using the projector for a long time or absent.**

- Dust collects and may cause an electric shock and fire caused by a short circuit due to heat, ignition and insulation/degradation.

**The Power Plug is the disconnecting device. In case of an emergency, the Power Plug must remain readily accessible.**

**If any of the following occurs, it could be a malfunction of the product, so you must immediately turn the projector off, unplug the power cord from the outlet, and contact the service center:**

- When the product is damaged;
  - When the product fails;
  - When there is a foreign substance inside the product; or
  - When the product smokes or smells.
- It may cause a fire or electric shock.

 **CAUTION**

**Do not unplug or plug the power plug from/in the outlet while the power switch is on. (Do not use the power plug as a switch.)**

- It may cause a fire or malfunction.

**When removing the AC adapter or power cord, be sure to hold the plug part.**

- A failure to do so may cause a fire or damage to the product.

**Do not damage the AC adapter, power cord or power plug, place heavy objects on them or give an impact on them.**

- It may cause a fire, electric shock or damage to the product.

**Attach the power cord and AC adapter connected to the projector in a way that they are fully seated.**

- Poor contact can cause a malfunction of the product and fire.

**If there is dust on the pin part of the power plug or the outlet, clean it thoroughly.**

- It may cause a fire.

**Keep the power cord away from heat sources.**

- The coating of the cord may melt and cause a fire or electric shock.

**Use only the authorized power cord or AC adapter supplied by LG Electronics. Do not use any other products.**

- It may cause a malfunction of the product, fire or electric shock.

## Cleaning

### WARNING

**Do not spray water directly onto the projector when cleaning it.**

- It may cause a fire or electric shock.

### CAUTION

#### **How to clean the projector**

- Disconnect the plug from the outlet before cleaning.
- Do not wipe the optical system (the lens and mirror) immediately after the power is turned off.
- Do not spray the water with a sprayer on the product or wipe the product with a damp cloth.
- Wipe the product gently with a soft cloth.
- Do not use any detergents, automotive or industrial polishes, abrasives, waxes, benzenes or alcohols.
- It may cause a fire, electric shock or damage to the projector (deformation, corrosion, and breakage).

#### **How to clean the lens**

- Clean the lens if any dust or smudge appears on the surface of the lens.
- Clean the surface of the lens with an air sprayer or a soft, dry cloth.
- To remove dust or stains on the lens, use a compressed air duster, cotton swab, or soft cloth to gently wipe the lens.
- Never clean the lens when the projector is operating or immediately after the projector is turned off.
- Do not use any detergents, automotive or industrial polishes, abrasives, waxes, benzenes, alcohols, water, etc. on the lens, as they will damage the projector.

**Consult your dealer or the service center for cleaning the interior of the product once a year.**

- If you do not clean the interior of the projector for a long time while dust collects, it may cause a fire or malfunction.

## Laser

### WARNING

- You risk being exposed to laser radiation if you manipulate or alter the product in a way not specified in the user manual.
- Be sure not to let infants or people with diseases directly watch the light source.

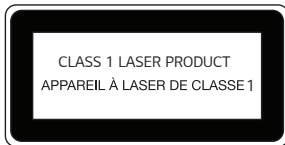
### CAUTION

- This product is a class 1 laser device that meets IEC 60825-1.

#### **Built-in laser standard (class 4 laser module)**

- Blue
  - Wavelength: 448 nm - 462 nm
  - Light output: approx. 67 W
- Red
  - Wavelength: 636 nm – 642 nm
  - Light output: approx. 2.5 W x 9

### **Product Laser Class Label**



The laser class label of product is attached to the bottom of the product.



# PREPARATION

The pictures may differ slightly from the actual product.

## Accessories

Accessories included with the projector are show below.

Accessories are subject to change without prior notice.

New accessories may be added or old ones removed.



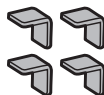
Magic Lighting Remote  
Two AA Batteries



Owner's Manual

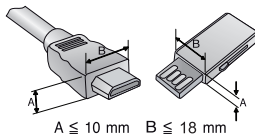


Power cord



Edge guards

- When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm (0.7 inches) or less and a height of 10 mm (0.3 inches) or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable that supports USB 2.0.



- When connecting two USB devices at the same time, each one should have bezels less than 8.5 mm (0.3 inches) thick.
- Use a certified cable with the HDMI logo attached.
- If you do not use a certified HDMI cable, the screen may not display or a connection error may occur. (Recommended HDMI cable types)
  - Ultra High Speed HDMI<sup>®</sup>/™ Cable (3 m (9.8 feet) or less)

## Optional Extras

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



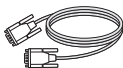
Projection Screen



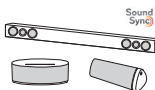
HDMI Cable



Optical Cable



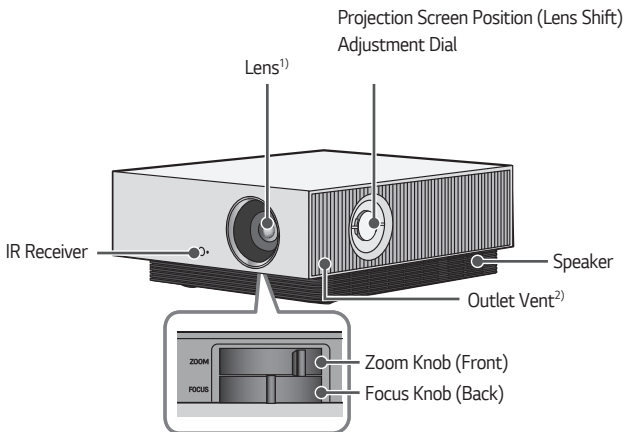
RS-232C Cable<sup>1)</sup>



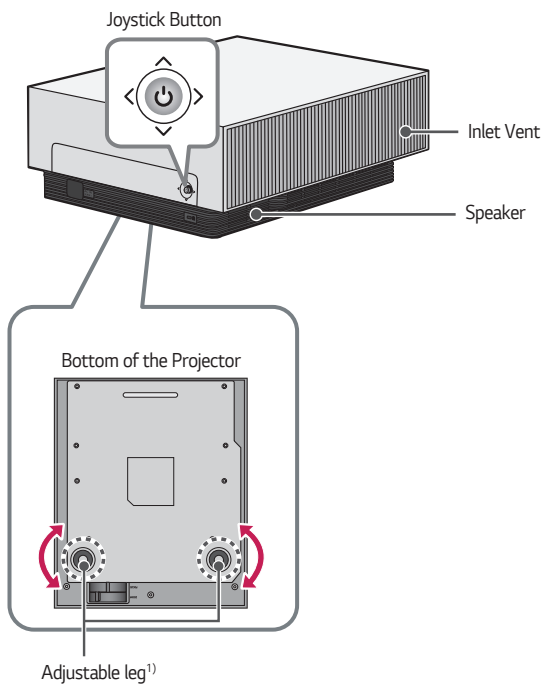
LG Audio Device

1) AU810PB model only

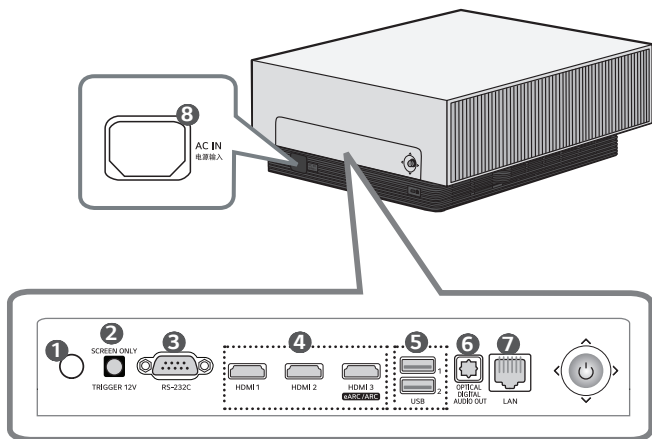
## Parts and Components



- 1) Do not touch the lens when using the projector. The lens may be damaged. (Keep lens away from sharp objects.)
- 2) Due to the high temperature of vent area, do not get close to the vent area.



1) Turn the adjustable leg left or right to adjust the angle.



- ① IR Receiver
- ② **TRIGGER 12V** Port
  - Use the trigger terminal only when connecting the screen. Connecting earphones to the trigger terminal may damage the earphones.
  - AU810PB model only
- ③ **RS-232C** Port
  - AU810PB model only
- ④ **HDMI** port
- ⑤ **USB** port
- ⑥ **OPTICAL DIGITAL AUDIO OUT** Port
- ⑦ **LAN** port
- ⑧ **AC IN** 電源輸入 (AC IN Port)

## Using the Joystick Button

You can operate the projector by pressing the button or moving the joystick left, right, up, or down.

### Basic functions



#### **Power On**

When the projector is turned off, place your finger on the joystick button, press it once, and release it.



#### **Power Off (Press and Hold)**

Press and hold the joystick button for more than 3 seconds while the projector is on.



#### **Volume Control**

Place your finger over the joystick button and move it left or right, you can adjust the volume level.



#### **Up/Down/ Left/Right**

If you move the joystick up, down, left, or right, you can move the cursor to select the menu items.

### **! NOTE**

- When moving the joystick button up, down, left or right, be careful not to move the button while it is being pressed. The volume may not be adjusted and the cursor may not move when the joystick button is pressed and moved.

## **Adjusting the menu**

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

You can adjust the menu items moving the joystick button left, right, up, or down. Move to the desired menu item, and then press the joystick button once to select it.



Turns the power off.



Changes the input source.

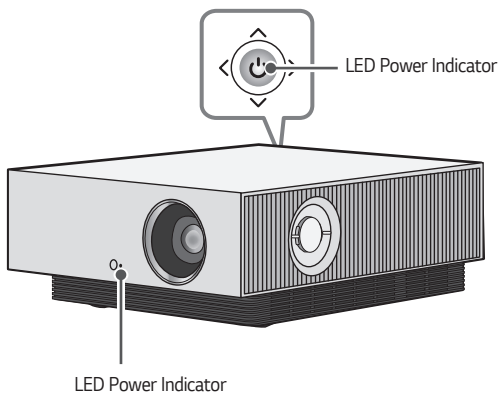


Clears on-screen displays and returns to projector viewing.



Displays the Settings menu.

## Projector Status Indicators



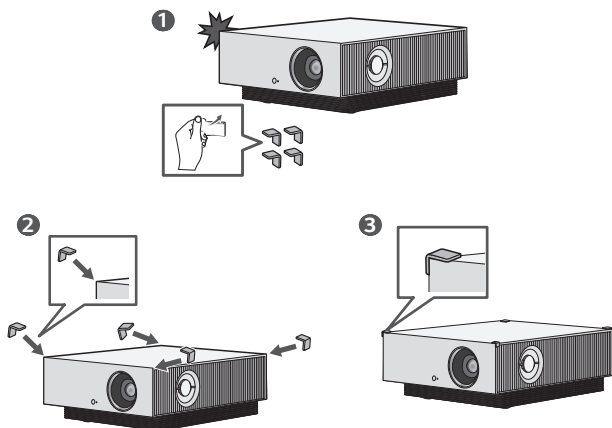
LED Power Indicator	
<b>Red</b>	Power standby state
<b>Red(Blink)</b>	Powering On
<b>Off</b>	The projector is operating with the power on.



# INSTALLATION

## How to use the edge guards

It prevents any damage to the product and injury when being attached to sharp edges of the product.



## Ceiling-Type Installation

### **WARNING**

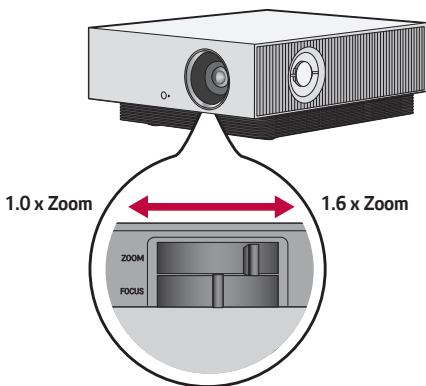
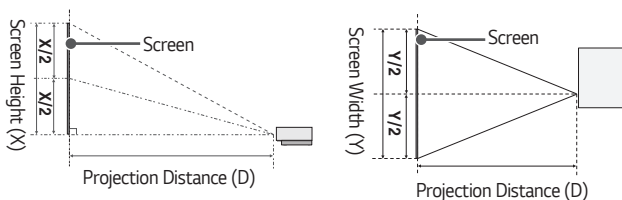
**When installing the product on the ceiling, observe the following precautions to prevent the projector from falling:**

- Contact the Customer Support Center for installation.
- Do not use adhesive, lubricant, oil, etc. when using the mounting equipment.
- Do not tighten the screws with an excessive force since the projector may fall due to breakage of the screw connection part.
- Standard screw: M6 x 10 mm
- Recommended torque: 5-8 kgf.cm (4.34-6.94 lbf-in)
- A failure to follow the precautions may result in injury or death and product damage due to the fall of the product.

## Projection Distance per Screen Size

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

Ratio of upward projection: 110%



### ! NOTE

- If the projected image looks distorted or bent, check to see if the screen is installed properly.

16:9 Aspect Ratio (1.0 x Zoom)							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
inches	mm	inches	mm	inches	mm	inches	mm
40	1016.0	34.8	885.5	19.6	498.1	72.4	1840
60	1524.0	52.2	1328.3	29.4	747.2	109.4	2780
80	2032.0	69.7	1771.0	39.2	996.2	146.4	3720
100	2540.0	87.1	2213.8	49.0	1245.3	183.0	4650
120	3048.0	104.5	2656.6	58.8	1494.3	218.1	5540
140	3556.0	122.0	3099.3	68.6	1743.4	256.6	6520
160	4064.0	139.4	3542.1	78.4	1992.4	293.7	7460
180	4572.0	156.8	3984.8	88.2	2241.5	330.3	8390
200	5080.0	174.3	4427.6	98.0	2490.5	367.3	9330
220	5588.0	191.7	4870.4	107.8	2739.6	403.9	10260
240	6096.0	209.1	5313.1	117.6	2988.6	440.9	11200
260	6604.0	226.6	5755.9	127.4	3237.7	477.5	12130
280	7112.0	244.0	6198.6	137.2	3486.7	514.5	13070
300	7620.0	261.4	6641.4	147.0	3735.8	551.1	14000

The projection distance may vary depending on the installation conditions.

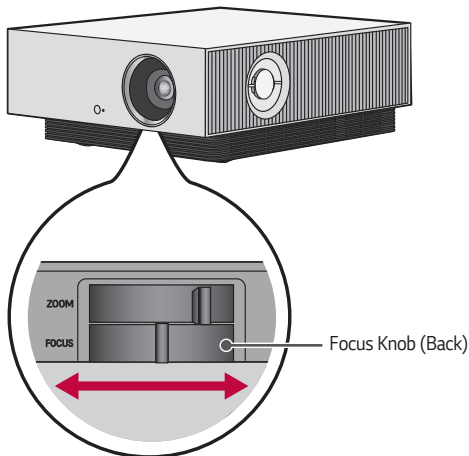
16:9 Aspect Ratio (1.6 x Zoom)							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
inches	mm	inches	mm	inches	mm	inches	mm
40	1016.0	34.8	885.5	19.6	498.1	44.4	1130
60	1524.0	52.2	1328.3	29.4	747.2	67.3	1710
80	2032.0	69.7	1771.0	39.2	996.2	90.5	2300
100	2540.0	87.1	2213.8	49.0	1245.3	113.3	2880
120	3048.0	104.5	2656.6	58.8	1494.3	136.2	3460
140	3556.0	122.0	3099.3	68.6	1743.4	159.0	4040
160	4064.0	139.4	3542.1	78.4	1992.4	182.0	4625
180	4572.0	156.8	3984.8	88.2	2241.5	205.1	5210
200	5080.0	174.3	4427.6	98.0	2490.5	227.9	5790
220	5588.0	191.7	4870.4	107.8	2739.6	250.7	6370
240	6096.0	209.1	5313.1	117.6	2988.6	273.6	6950
260	6604.0	226.6	5755.9	127.4	3237.7	296.6	7535
280	7112.0	244.0	6198.6	137.2	3486.7	319.4	8115
300	7620.0	261.4	6641.4	147.0	3735.8	342.5	8700

The projection distance may vary depending on the installation conditions.

## Adjusting the Focus of the Projection Screen

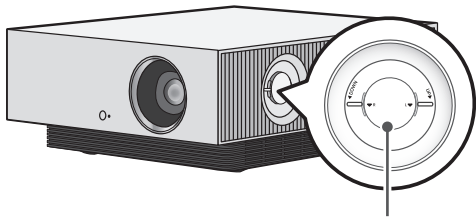
When an image appears on the screen, check if it is in focus and fits the screen properly.

To adjust the focus of the image, slowly adjust the focus knob to the left or right while looking at the top center of the screen. You can adjust the focus most effectively when the left and right screen are balanced. When adjusting the focus on the screen, do not let the product shake.



## Adjusting the Position of the Projection Screen

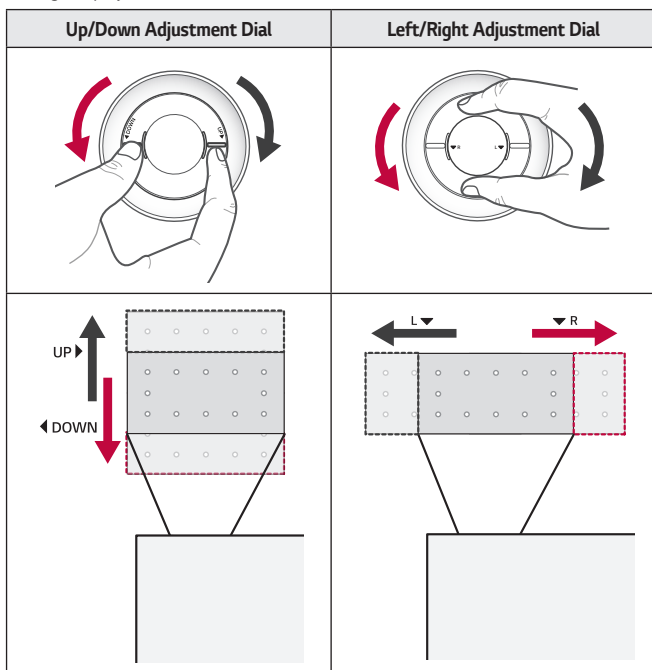
You can use the Projection Screen Position (Lens Shift) Adjustment Dial to adjust the position of the projection screen without moving the projector up, down, left or right. If the projection screen does not align properly on the screen even after adjusting the position of the projection screen using the Projection Screen Position (Lens Shift) Adjustment Dial, use the [Keystone] function.



Projection Screen Position (Lens Shift)  
Adjustment Dial

## How to Use the Projection Screen Position (Lens Shift) Adjustment Dial

You can use the dial to move the position of the projection screen (lens) without moving the projector.



### CAUTION

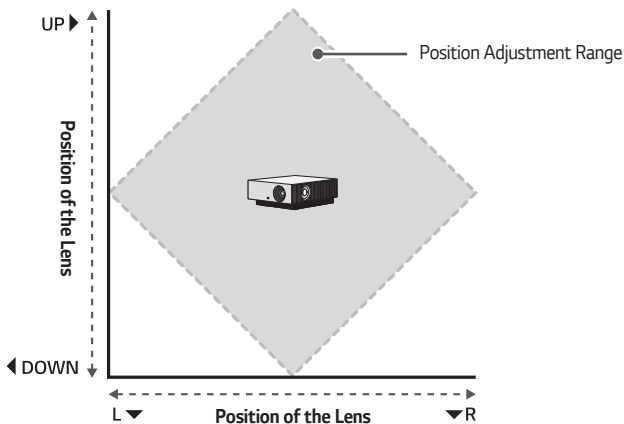
- Clicking sounds while rotating the dial indicates that no further adjustment can be made. Continuing to rotate the dial after reaching the maximum position may cause damage to the dial.



### Adjustment Range of the Position of the Projection Screen

The range for moving the position of the projection screen using the Projection Screen Position (Lens Shift) Adjustment Dial is shown below.

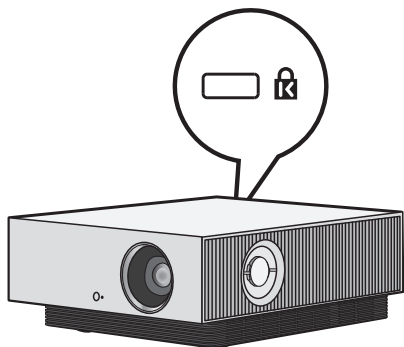
- When the lens position is at its vertical limit (up/down), you cannot move the lens horizontally (left/right).
- When the lens position is at its horizontal limit (left/right), you cannot move the lens vertically (up/down).



## Kensington Security System

- This projector has a Kensington Security Standard connector as an anti-theft mechanism. 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>

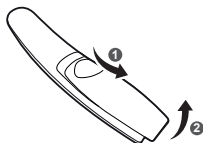


# MAGIC LIGHTING REMOTE

- **Depending on country**

If the battery low message appears while using the Projector, replace the batteries.

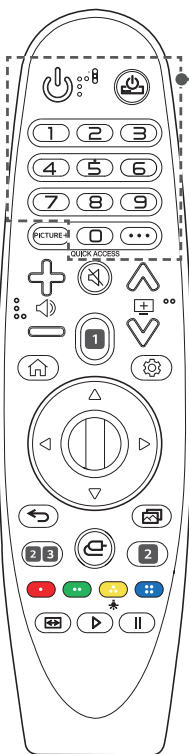
As shown in the figure, press the top of the battery cover and slide it down the cover. Insert two new and identical batteries (1.5 V, AA type) with + and - poles pointing in the correct direction in the remote control.



\* : **To use the button, press and hold for more than 3 seconds.**

## ⚠ CAUTION

- Do not mix new batteries with old ones.



### ⏻ (POWER)

Turns the Projector on or off.



You can turn your set-top box on or off by adding the set-top box to the universal remote control for your Projector.

### Number buttons

Enters numbers.



Accesses the [Quick Help].

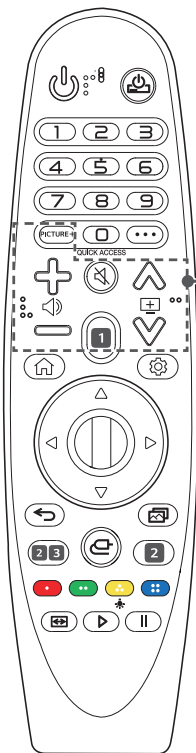
### QUICK ACCESS \*

Edits QUICK ACCESS.

(QUICK ACCESS is a feature that allows you to enter a specified app directly by pressing and holding the number buttons.)

### ⋮ (MORE ACTIONS)

Displays more remote control functions.



## PICTURE+

The menu appears in the order of [Iris Mode]/[Adaptive Contrast]/[Dynamic Tone Mapping]/[Real Cinema]/[TruMotion].

Depending on the input signal or video mode setting, the menu may deactivate and disappear from the screen.

- [Dynamic Tone Mapping]: When the signal is not HDR10
- [Real Cinema]: When the input signal is not 24Hz/ When [Picture Mode] is [Game]/When set to [TruMotion]
- [TruMotion]: When the input signal is 60Hz/ When [Picture Mode] is [Game]



Adjusts the volume level.



Mutes all sounds.

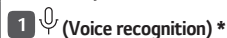


Accesses the [Accessibility] menu.



Network connection is required to use the voice recognition function.

Check for recommended content. (Some recommended services may not be available in some countries.)



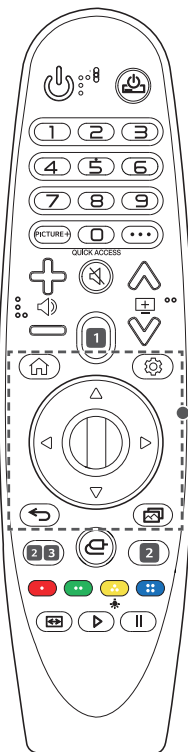
Speak while pressing and holding the button to use the voice recognition feature.



Search for content such as movies and other videos, or perform a web search by entering your search terms in the search box.



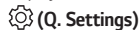
Moves to the previous/next page.



Accesses the Home menu.



Displays the list used previously.



Accesses the Quick Settings.



Displays the [All Settings] menu.



Press the up, down, left or right button to scroll the menu. If you press  $\triangle$   $\nabla$   $\triangleleft$   $\triangleright$  buttons while the pointer is in use, the pointer will disappear from the screen and the Magic Lighting Remote will operate like a general remote control. To display the pointer on the screen again, shake the Magic Lighting Remote to the left and right.



Press the center of the Wheel button to select a menu. You can move cursor or menu by using the Wheel button.



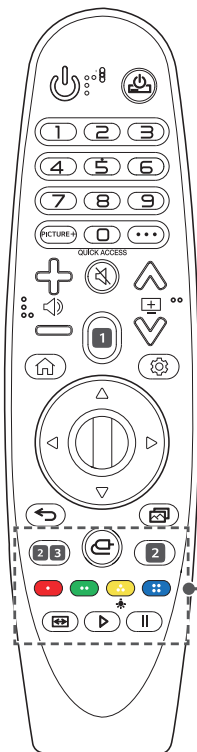
Returns to the previous screen.



Clears on-screen displays and returns to last input viewing.



Changes the [Picture Mode].



## 2 Streaming Service buttons

Connects to the Video Streaming Service.

## 3 ((⊞)) (Sound Mode)

Changes the [Sound Mode].

## (INPUT)

Changes the input source.

## (INPUT) \*

Accesses the [Home Dashboard].




These access special functions in some menus.



The remote control buttons light up so that you can use the remote control in the dark.

If the remote control does not move, the pointer disappears and the remote control light turns off in about 5 seconds.

The lighting function is applied when the product is shipped, and if you press and hold the  button for more than 5 seconds, the **(POWER)** button flashes twice and you can turn the lighting function on or off.

## (=>) (Aspect Ratio)

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


## Control buttons (▶, ||)

Controls media contents.





## To Register the Magic Lighting Remote

You must pair the Magic Lighting Remote with the projector to use it.

Pair the Magic Lighting Remote prior to use as follows.

- 1 Put batteries into the Magic Lighting Remote and turn the Projector on.
  - 2 Point the Magic Lighting Remote at your projector and press the  **Wheel (OK)** on the remote control.
- If the projector fails to register the Magic Lighting Remote, try again after turning the projector off and back on.

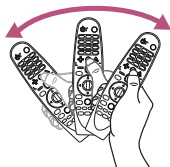
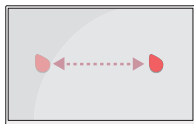
## To Re-register the Magic Lighting Remote

- 1 Press the  and  buttons at the same time, for five seconds, to unpair the Magic Lighting Remote with your projector.
  - 2 Press the  **Wheel (OK)** button towards the projector to re-register the Magic Lighting Remote.
- Pressing and holding the  button will let you cancel and re-register Magic Lighting Remote at once.

## Using the Magic Lighting Remote



- If you shake the Magic Lighting Remote left and right or turn its wheel while pointing it at the projector, a pointer will appear on the projector screen. If you move the remote control in the direction you want, the pointer follows the movement.

Move the pointer to the location you want and press the **Wheel (OK)** button to execute the function.





## Setting the Pointer of Magic Lighting Remote

- You can set the pointer speed and size you want while it is on the screen.  
 →  → [General] → [Additional Settings] → [Pointer Options]
  - [Tracking Speed]: Sets the pointer speed.
  - [Pointer Size]: Selects the pointer size.
- If the pointer has not been used for a certain period of time, it will disappear. When the pointer disappears from the screen, shake the Magic Lighting Remote right and left.  
The pointer will disappear if you press the up, down, left, right buttons, and the remote will work as a conventional remote.
- If the pointer is not responding smoothly, you can reset the pointer by moving it to the edge of the screen.
- Use the remote control within the specified range (within 10 m (32.8 feet)). 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 Lighting Remote. This may cause communication failures.
- Impacts can cause the Magic Lighting Remote to malfunction.
- Take care not to bump into nearby furniture, electronic equipment, or other people when using the Magic Lighting Remote.
- The Magic Lighting Remote may not work properly if a wireless router (AP) is within 0.2 m (0.6 feet) of the Projector. Your wireless router should be more than 0.2 m (0.6 feet) away from the Projector.

# CONNECTING DEVICES


You can connect various external devices to the projector.

## Connecting with a HDMI Cable

Connect an HD receiver, DVD, PC, Notebook, or external devices to the projector and select an appropriate input mode.

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


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

-  (**INPUT**) → [Home Dashboard] → [Inputs] → [HDMI 1]/[HDMI 2]/[HDMI 3]



### **NOTE**

#### **ARC (Audio Return Channel)**

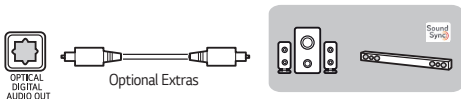
- External audio devices that support SIMPLINK and ARC must be connected using HDMI 3 **eARC/ARC** port. ()
- When connected with a high-speed HDMI® cable, external audio devices that support ARC output or SPDIF work with the SIMPLINK function without the need for an additional optical audio cable.

#### **When connecting PC/laptop**

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

## Connecting a Digital Amp


Using an optical cable, connect the digital audio input port of a digital amp to the **OPTICAL DIGITAL AUDIO OUT** port of the projector. The output of an amp with a digital converter must be set to the desired audio format. When using a HDMI cable to connect a home theater or when connecting an optical output to an external audio device, set [Sound Out] to [Optical]. If a projector, home theater, or the speaker of an external audio device is operating at the same time, there will be an echo.



### ! NOTE

- Refer to the user manual of the audio device to connect.
- When connecting this product to other devices, make sure to turn off and unplug all the devices.
- The audio output of this product has wide-ranging audio bandwidth, so the receiver volume must be adjusted properly. Speakers can be damaged by unexpected high frequencies.
- Connecting the **OPTICAL DIGITAL AUDIO OUT** port of the projector to the digital audio input port of a digital amp and the audio input port of the projector to the analog audio output port of the digital amp can cause sound oscillation due to the closed loop. Remove one of the two connections to prevent this. (This also applies to home theater devices.)

## Connecting a smart device (smartphone, tablet, etc.)

-  (INPUT) → [Home Dashboard] → [Inputs] → [HDMI 1]/[HDMI 2]/[HDMI 3]
- The picture may look different from the actual product.

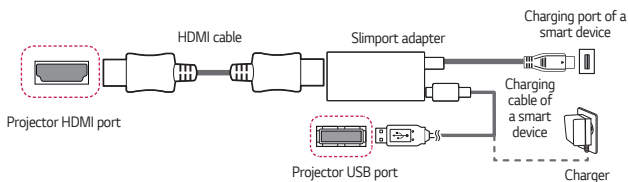
Connect a smart device to the projector using a cable<sup>1)</sup> and set the external input of the projector to HDMI. The smart device screen will then be displayed through the projector. You can connect with any HDMI input port.

For model-specific instructions regarding use of the wired connection, please check with the smart device manufacturer.

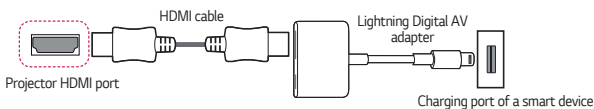
Supported smart devices may change depending on the circumstances of each manufacturer.

1) Examples of how to connect a cable to different smart devices (cable purchased separately).

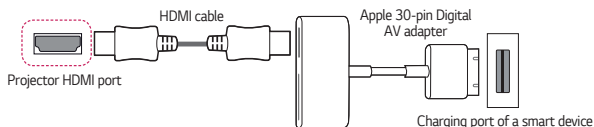
### Slimport supported devices



### Apple Lightning Digital AV adapter supported devices



### Apple 30-pin Digital AV adapter supported devices



# SPECIFICATIONS

MODEL	AU810PB (AU810PB-NA) HU810PW (HU810PW-NA)	
<b>Resolution (Pixel)</b>	3840 (Horizontal) x 2160 (Vertical) <sup>1)</sup>	
<b>Aspect ratio</b>	16:9 (Horizontal:Vertical)	
<b>Projection distance – Screen size</b>	1130 mm to 8700 mm (44.4 inches to 342.5 inches) – 1016.0 mm to 7620.0 mm (40 inches to 300 inches)	
<b>Ratio of upward projection</b>	110 %	
<b>Ratio of downward projection</b>	-110 %	
<b>Power consumption</b>	300 W	
<b>Power</b>	AC 100 ~ 240 V, 50/60 Hz, 3.0 A	
<b>Audio Output</b>	5 W + 5 W	
<b>Height</b>	145 mm (5.7 inches) (without foot), 151 mm (5.9 inches) (with foot)	
<b>Width</b>	337 mm (13.2 inches)	
<b>Depth</b>	410 mm (16.1 inches)	
<b>Weight</b>	11 kg (24.2 lbs)	
<b>USB Device</b>	5 V, 0.5 A (Max.)	
<b>12 V trigger output<sup>2)</sup></b>	12 V, 0.2 A (Max.)	
<b>Environment Condition</b>	<b>Temperature</b>	
	<b>Operation</b>	0 °C to 40 °C (32 °F to 104 °F)
	<b>Storage</b>	-20 °C to 60 °C (-4 °F to 140 °F)
	<b>Relative Humidity</b>	
	<b>Operation</b>	0 % to 80 %
	<b>Storage</b>	0 % to 85 %

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

1) 4K UHD resolution with 8.3 million discrete pixels projected by XPR (Expanded Pixel Resolution) video processing.

2) AU810PB model only

## HDMI (DTV) Supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.46	59.94
640 x 480	31.5	60
720 x 480	31.47	59.94
720 x 480	31.5	60
720 x 576	31.25	50
1280 x 720	44.96	59.94
1280 x 720	45	60
1280 x 720	37.5	50
1920 x 1080	28.12	50
1920 x 1080	33.72	59.94
1920 x 1080	33.75	60
1920 x 1080	26.97	23.97
1920 x 1080	27	24
1920 x 1080	33.71	29.97
1920 x 1080	33.75	30
1920 x 1080	56.25	50
1920 x 1080	67.43	59.94
1920 x 1080	67.5	60
1920 x 1080	112.5	100
1920 x 1080	134.86	119.88
1920 x 1080	135	120

<b>Resolution</b>	<b>Horizontal Frequency (kHz)</b>	<b>Vertical Frequency (Hz)</b>
3840 x 2160	53.95	23.98
3840 x 2160	54	24
3840 x 2160	56.25	25
3840 x 2160	61.43	29.97
3840 x 2160	67.5	30
3840 x 2160	112.5	50
3840 x 2160	134.86	59.94
3840 x 2160	135	60
4096 x 2160	53.95	23.98
4096 x 2160	54	24
4096 x 2160	56.25	25
4096 x 2160	61.43	29.97
4096 x 2160	67.5	30
4096 x 2160	112.5	50
4096 x 2160	134.86	59.94
4096 x 2160	135	60

## HDMI (PC) Supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60
1360 x 768	47.71	60.01
1152 x 864	54.34	60.05
1280 x 1024	63.98	60.02
1920 x 1080	67.5	60
1920 x 1080	134.86	119.88
1920 x 1080	135	120
3840 x 2160	53.95	23.98
3840 x 2160	54	24
3840 x 2160	56.25	25
3840 x 2160	61.43	29.97
3840 x 2160	67.5	30
3840 x 2160	112.5	50
3840 x 2160	134.86	59.94
3840 x 2160	135	60



Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
4096 x 2160	53.95	23.98
4096 x 2160	54	24
4096 x 2160	56.25	25
4096 x 2160	61.43	29.97
4096 x 2160	67.5	30
4096 x 2160	112.5	50
4096 x 2160	134.86	59.94
4096 x 2160	135	60
2560 x 1440	88.78	59.95

- If an invalid signal is input into the projector, it will not be displayed properly on the screen or a message such as [No Signal] or [Invalid Format] will be displayed.
- The projector supports the DDC1/2B type as the Plug and Play function (Auto-recognition of PC monitor).
- 3840 x 2160 is recommended as the best picture quality in the PC mode.

## Other specifications







As with any bright light source, do not stare into the beam, RG2 IEC 62471-5:2015.

### Risk Group 2

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

This label is attached to the bottom of the product and language may differ.

# SYMBOLS

	Refers to alternating current (AC).
	Refers to direct current (DC).
	Refers to class II equipment.
	Refers to stand-by.
	Refers to "ON" (power).
	Refers to dangerous voltage.

# TROUBLESHOOTING

Please check the list below when you experience the following symptoms during use of the product. It may not be a failure.

## Checklist for Safety (please check a long-used projector for safety issues.)

Does your device have any of the following issues?

- The projector does not display anything on the screen or output sound when it is turned on.
- The product emits smoke or a burning smell.
- Water or foreign substances are present inside the product.
- Part of the projected image is cut out.
- A strange noise (crackling or sparking sound) regularly occurs from inside the projector.
- The projector still displays the screen or outputs sound when it is turned off.
- There are other errors or failures.

In this case, stop using the product.

- For safety, turn off the power switch and remove the plug from the socket.
- Contact the place of purchase or authorized service center for product inspection.
- Do not attempt to repair the product yourself.

## Abnormal behavior

- There is a colored dot (bright dots, dark dots, stationary dots, and/or flickering dots) on the screen.
  - This projector was produced with high precision technology. However, a tiny dark or bright dot may appear on the screen. This is a common occurrence due to the production process, and it does not indicate a functional failure.
- The remote control may not work properly where a lamp with electronic stabilizer or a three-wavelength lamp is installed.
  - In this case, replace the lamp with electronic stabilizer or the three-wavelength lamp with international standard products to ensure the remote control works properly.

