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Manual

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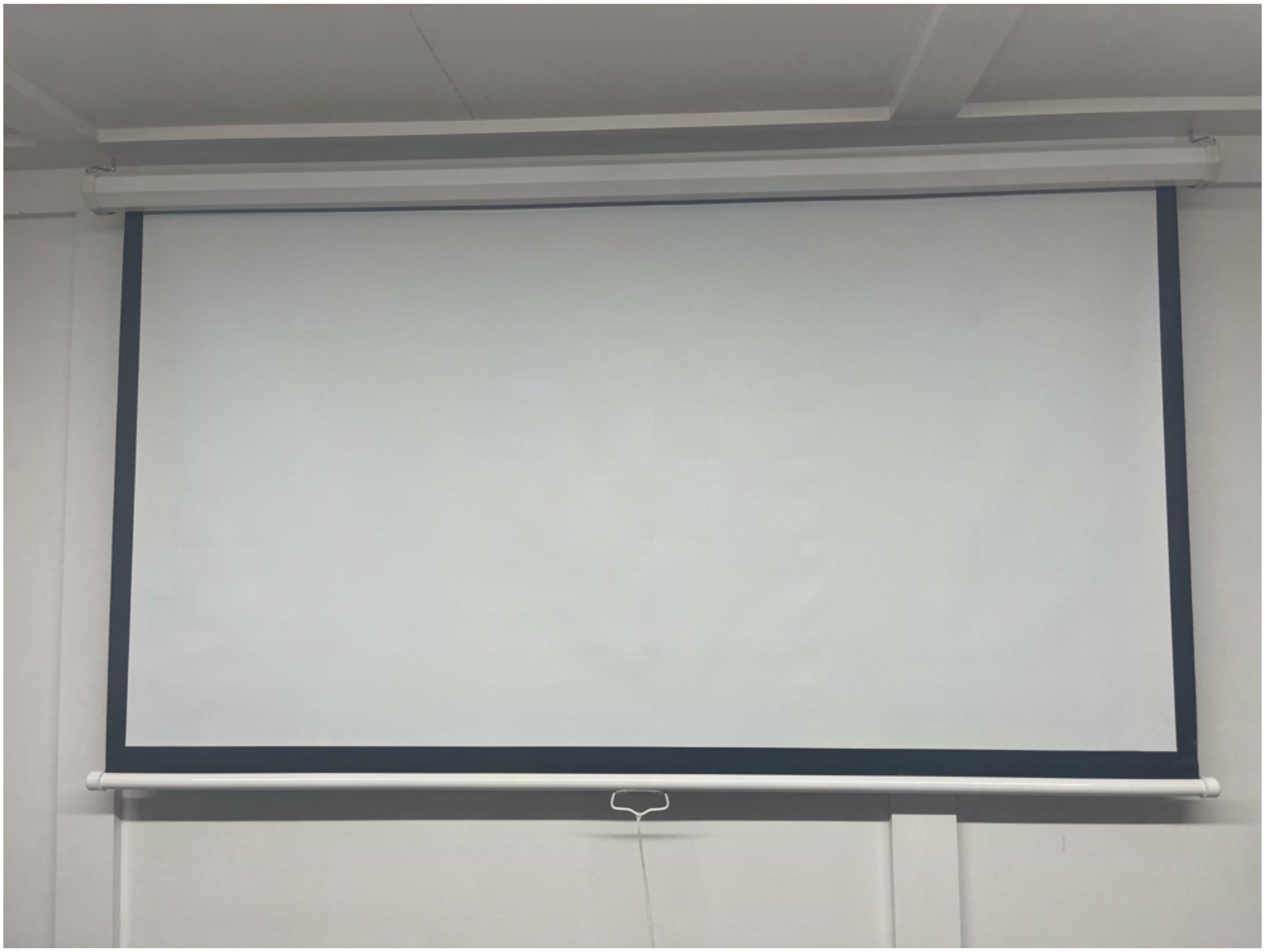
Projector Screen
063129



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PROJECTOR SCREEN USER MANUAL

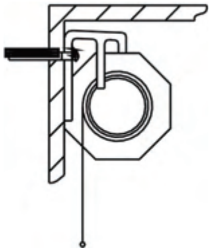
063129 - 72" -INCH

INSTALLATION:

Install the screen in an area that can be easily viewed by anyone sitting in the room. Make sure it is the desired position, angle, and location of the screen before installing it. The screen will be used for a long time if you place it in the right area. This projector screen can be installed on the wall or ceiling (optional).

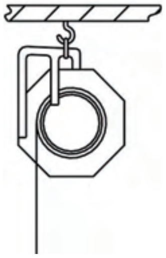
WALL SCREEN

Place the projector on the wall and make sure it is level; mark the two rings with a pencil so you know where to put the nails. Once you have the nail positioning correct, Hammer the nails in the wall (practice caution) in the places where you marked with the pencil; then hang the projector.



CEILING SCREEN

When you are hanging the projector on the ceiling, follow the same steps for the wall. It is important to know what you are nailing into; make sure it has enough support to handle the weight of the projector.



Note: Make sure that you install the projector screen with enough height that the entire screen can be pulled down. After you used the screen, please check the fabric of the screen for dust and dirt. If it has any, please clean it with a soft brush.

INSTRUCTIONS:

1. **Open screen:** This projector screen has a self-locking mechanism. Simply pull down the screen to your desired location and then release softly. Once you release the screen, it will start to pull up slightly and then lock itself into position. You are ready to project on to the screen.
2. **Close screen:** When you wish to close the screen, pull the screen down slowly- at this point you will hear/feel the self-locking mechanism release. You can then slowly release the screen (keeping your hand on it) and smoothly guide it back into its position.

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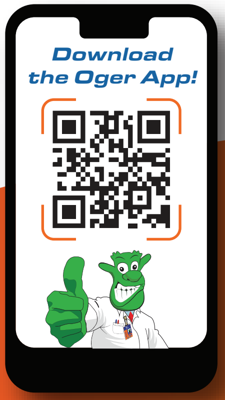
Owner's Manual

Projector *063128*

Please read the safety information carefully before using this product.



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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.

SAFETY PRECAUTIONS

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 personal injury or product damage.
- Read the owner's manual carefully and keep it on hand.

WARNING/CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

⚠ The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the 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 use the projector outside and do not expose the product to any humidity or water.
  - Since the product is not waterproof, this may result in a fire or electric shock.
- Do not place the projector in direct sunlight or near heat sources such as radiators, fires, stoves, etc.
  - This may result infire.
- Do not place flammable materials such as aerosols near the projector.
  - This may result infire.

- Do not allow children to cling to or climb up to the projector.
  - This may cause the projector to fall, causing injury or death.
- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a closet) or on a carpet or cushion.
  - This may result infire due to the increase in internal temperature.
- Do not place the product close to sources of steam, oil or oil mist, such as humidifiers and kitchen counters.
  - Failure to do so may result in fire, electric shock, or corrosion.
- Do not install the product onto a wall or ceiling that is close to sources of oil or oil mist.
  - The product may be damaged and fall, resulting in serious injury.
- Do not place the projector where it might be exposed to dust.
  - This may result infire.
- Do not use the projector in a damp place such as a bathroom where it is likely to get wet.
  - This may result infire or electric shock.
- Do not allow a tablecloth or curtain to block the air vent.
  - This may result infire due to the increase in the internal temperature.
- Ensure good ventilation around the projector. The distance between the projector and the wall should be at least 30 cm (11.8 inches).
  - This will preventfire due to the increase in the internal temperature.

⚠ CAUTION

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

Power

⚠ WARNING

- DISCONNECTING THE DEVICE FROM THE MAIN POWER
  - The Power plug is the disconnecting device. In case of an emergency, the Power Plug must remain readily accessible.
- The grounding wire should be connected. (Except for devices which are not grounded.)
  - Ensure that you connect the grounding cable to avoid electric shock. If it is not possible to ground the unit, have a qualified electrician install a separate circuit breaker.
    Do not try to ground the projector by connecting it to telephone wires, lightning rods or gas pipes.
- The power plug should be inserted fully into the power outlet.
  - An unstable connection may cause a fire.
- Do not place heavy objects on the power cord.
  - This may result in fire or electric shock.
- Never touch the power plug with wet hands.
  - This may result in electric shock.

- Do not plug too many devices into one multi-power outlet.
  - This may result infire due to the power outlet overheating.
- Keep the AC adapter, power plug, and the used power outlet clean from dust or foreign materials building up.
  - This may result infire.
- If there is any smoke or a burning smell from the projector or AC adapter, stop using the product immediately. Disconnect the power cord from the power outlet, and then contact the customer service center.
  - This may result infire.
- To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.

⚠ CAUTION

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

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

When in Use

⚠ WARNING

- Do not place anything containing liquid on top of the projector such as a vase, flower pot, cup, cosmetics, medicine, or ornaments, candles, etc.
  - This may result infire or electric shock, or cause injury due to falling.
- In the event that there is a heavy impact or the cabinet is damaged, switch it off, unplug it from the power outlet and contact an authorized service center.
  - This may result in electric shock.
- Do not insert pieces of metal such as coins, hairpins or metal debris, nor flammable materials such as paper or matches into the projector.
  - This is to prevent electric shock or fire.
- Make sure that a child does not swallow the batteries when you replace the old batteries in the remote control with new ones. Keep batteries out of reach of children.
  - If a child swallows a battery, consult a doctor immediately.
- Never open any cover on the projector.
  - There is a high risk of electric shock.
- Do not look directly into the lens when the projector is in use.
  - The bright light may damage your eyes.
- When the lamp is on or has just been turned off, avoid touching the air vent or lamp, because these will be very hot.
- If there is a gas leak in the room with the projector, do not touch the projector or power outlet. Open the windows for ventilation.
  - Sparks may causefire or burns.
- Unplug the power cord from the outlet during a lightning storm.
  - This will prevent shock or damage to the projector.
- Do not use the projector near electronic devices that generate a strong magnetic field.
- Keep the plastic film used for packaging the projector out of the reach of children.
  - If not handled safely, it can cause suffocation.

- Do not keep your hand on the projector for a long time when it is running.
- When you play a game by connecting a game console to a projector, it is recommended that you maintain a distance of more than four times the diagonal length of the screen.
  - Make sure that the connecting cable is long enough. Otherwise, the product may fall causing personal injury or damage to the product.
- Do not place the projector or its remote control with batteries in an extremely high temperature environment.
  - This may result infire.

⚠ CAUTION

- Do not place heavy objects on the projector.
  - It may fall down and cause personal injury.
- Be careful not to allow any impact to the lens during transport.
- Do not touch the lens of the projector.
  - The lens may be damaged.
- Do not use any sharp tools on the projector such as a knife or hammer, because this may damage the casing.
- In the event that no image appears on the screen or no sound is heard, stop using the projector. Switch off the projector, unplug it from the power outlet and contact our service center.
  - This may result infire or electric shock.
- Do not drop anything onto the projector or allow anything to bang into the projector.
  - This may cause damage to the projector or personal injury.
- It is recommended that you maintain a distance of more than 5 to 7 times the diagonal length of the screen.
  - If you watch the screen at a close distance for a long time, your eyesight may become worse.

- Do not block the light beam emitted from the projector using a book or other object.
  - Lengthy exposure to the projector beam may result in fire. In addition, the lens may be overheated and damaged by the reflected heat. Disable the AV function to stop projection temporarily or turn off the power.
- Do not start the projector with the volume turned up high.
  - High volume may damage hearing.
- Do not use high voltage electrical equipment near the projector, (e.g., a bug zapper). This may result in product malfunction.
- Do not carelessly throw away old batteries.
  - It can cause an explosion ofire. 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.

Cleaning

⚠ WARNING

- Do not spray the projector with water when cleaning. Make sure water does not flow into the projector.
  - This may result infire or electric shock.
- When there is smoke or a strange smell coming out from the projector or a foreign object falls into the projector, please switch it off and unplug it from the power outlet and contact our service center.
  - Otherwise, this may result infire or electric shock.

⚠ CAUTION

- Contact your seller or our service center once a year to clean the internal parts of the projector.
  - If you do not clean the projector for a long period of time, dust will accumulate, which may result in fire or damage to the projector.
- When cleaning plastic parts such as the projector case, unplug the power first and wipe with a soft cloth. Do not spray with water or wipe with a wet cloth. Never use glass cleaner, automobile or industrial polish, abrasives, wax, benzene, or alcohol as these can damage the projector.
  - This can result infire, electric shock or cause damage to the product (deformation and corrosion).
- Do not wipe the optical system (lens, mirror) right after the product has been turned off or while the product is being operated. When cleaning each part of the product, remove the power cord and wipe gently with a soft cloth. Do not spray with water or wipe with a wet cloth. Do not use detergents, automobile or industrial polish, abrasive substances, wax, benzene, alcohol, water, etc. on the product's main unit or optical system (lens, mirror) as this may damage the product.
  - This can result infire, electric shock or cause damage to the product (deformation and corrosion).
- Remove the plug from the outlet before cleaning the product.
  - Otherwise, this may result in electric shock.

Battery Use

⚠ CAUTION

- Do not charge the battery using any equipment other than that supplied with the product. This may damage the battery or cause a fire.
- Always use a battery that is approved and certified by LG Electronics, Inc. Failure to do so may result in an explosion or fire.
- If the battery is leaking or giving off an odor, discontinue its use immediately and contact LG Electronics Customer Support Center.
- The battery contains lithium-ion, so please handle with care. Failure to do so may result in an explosion or fire.

Others

⚠ WARNING

- When you go out, place the projector out of reach of animals, and remove the power plug from the wall outlet.
  - Using a damaged power cord may result in short circuit orfire.
- Do not use the projector near high-precision electronic devices or those that transmit weak radio signal.
  - This may affect the operation of the product, causing an accident.
- Only a qualified technician can disassemble or modify the projector. For diagnosis, adjustment, or repair, contact your seller or our service center.
  - This may result infire or electric shock.
- Proper ventilation required, do not block airflow around unit. Doing so can cause injury and internal overheating.

- Do not touch the lens; doing so can result in burns or damage to lens. Lens and unit may be HOT during and immediately after use. Use caution when handling unit, allowing for proper cool down.
- Only use a grounded electrical outlet. (Except for devices which are not grounded.)
- Do not insert anything into or cover up the exhaust vents.
  - This may result infire or electric shock.
- Follow all maintenance guidelines for optimal use; service only at an authorized service center.
- Keep the batteries and remote out of reach of children.
  - This will prevent personal injury or damage to the product.

⚠ CAUTION

- Do not use or store the projector outdoors for long periods of time.
- Do not mix new batteries with old ones.
  - Burst or leaking batteries may result in damage or injury.
- Be sure to unplug if the projector is not to be used for a long period.
  - Accumulated dust may result in fire or electric shock due to overheating, ignition, or poor insulation.
- Only use the specified type of battery.
  - Burst or leaking batteries may result in damage or injury.
- Make sure you use the same type of battery when replacing.
  - In the case of a battery contact failure, the battery may drain quickly or the remote control may not work properly.
- Dispose of used batteries properly.
  - This may result in explosion or fire. The correct method of disposal may vary depending on your country or region. Dispose of the battery pack as instructed.

- Do not throw or disassemble the battery.
  - This may result in fire or explosion due to damage to the battery.
- Store batteries away from metallic objects, such as keys and paper clips.
  - Excess current may cause a rapid increase in temperature, resulting in fire or burns.
- Do not store the batteries near any heat source, such as a heater.
  - This may result in fire or damage to the product.
- Do not store batteries at temperatures higher than 60 °C (140 °F) or in high humidity.
  - This may result in explosion or fire.
- Make sure that the battery is installed correctly.
  - This prevent explosion of fire.
- Incorrect battery replacement may cause fire.
- Batteries: Store the accessories (battery, etc.) in a safe location out of the reach of children.

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.

ANTENNA

⚠ WARNING

- 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.

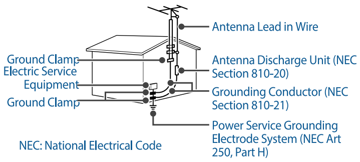
⚠ CAUTION

- To prevent any water flowing into the product, install a drip loop in the outdoor antenna wire where it comes indoors.
  - Raindrops flowing into the product may cause fire or electric shock.

Outdoor Antenna Grounding

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

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


Antenna Lead in Wire
Ground Clamp
Electric Service Equipment
Ground Clamp
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC: National Electrical Code

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.

CONTENTS

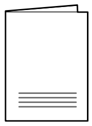
PREPARATION

The pictures may differ slightly from the actual product.

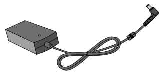
Accessories

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.

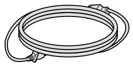
Remote Control,
Two AAA Batteries



Owner's Manual

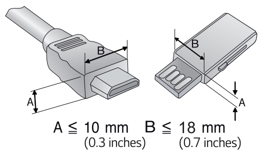


AC-DC Adaptor



Power cord

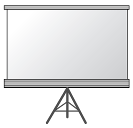
- When connecting an HDMI or USB cable, or connecting a USB flash drive to the HDMI or USB port, use a product that has a width of 18 mm (0.7 inches) or less and a height of 10 mm (0.3 inches) or less. If the USB cable or USB flash drive does not fit the USB ports of the projector, use an extension cable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



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

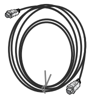
Optional Extras

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

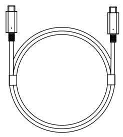


Projection Screen

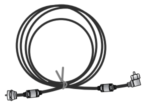
Tripod



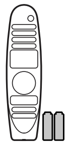
HDMI Cable



USB-C Cable



RF Cable



Magic Remote Control[1]
(AN-MR650A)

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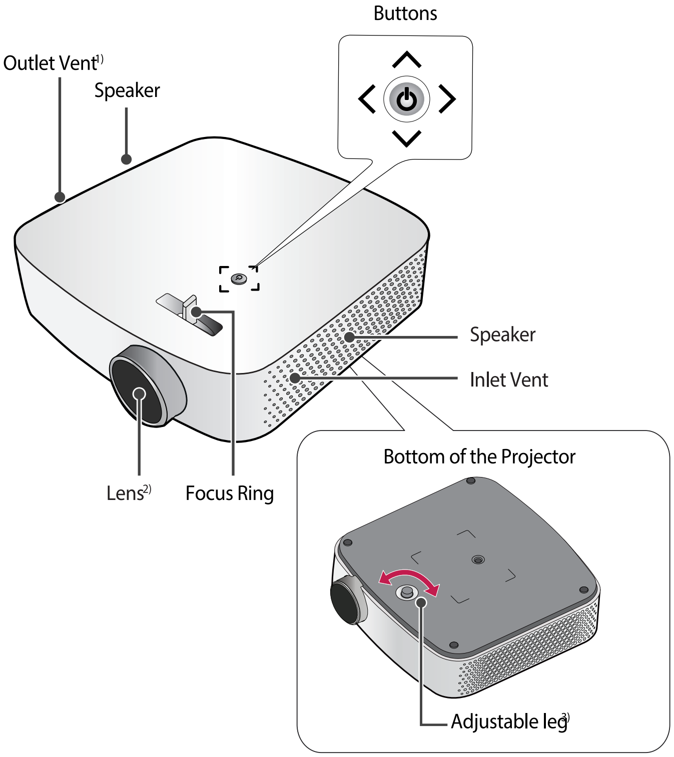
[1] Some functions of the Magic Remote may not work.

Parts and Components

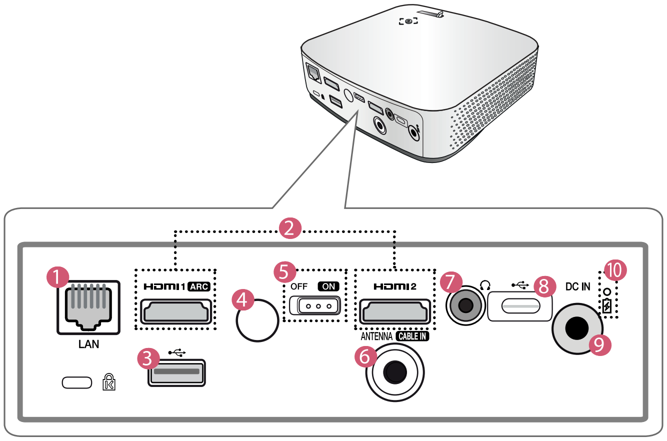
This projector is manufactured using high-precision technology. You may, however, see tiny black dots and/or bright colored dots (red, blue, or green) that continuously appear on the projector screen. This is a normal result of the manufacturing process and does not indicate a malfunction.

Main Unit



1) Due to the high temperature of vent area, do not get close to the vent area.
2) Do not touch the lens when using the projector. The lens may be damaged.
(Keep lens away from sharp objects.)
3) Turn the adjustable leg left or right to adjust the angle.

[Back](#)



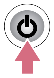
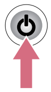
No.	Description
①	**LAN** Port
②	**HDMI** Port
③	(USB 2.0 port)
④	IR Receiver
⑤	**OFF** / **ON** Switch – **ON**: Turns the projector on and the projector goes into Standby mode. – **OFF**: Turns the projector off completely. Place the switch to **OFF** when you move the projector or when you intend not to use the projector for long periods of time.

No.	Description
⑥	ANTENNA CABLE IN Port
⑦	🎧 (Headphone Port)
⑧	(USB-C port)
⑨	**DC IN** Port
⑩	Battery Charge Indicator – Red: Charging – Green: Charging complete

Using the Buttons

You can operate the projector by pressing the button.

Basic functions

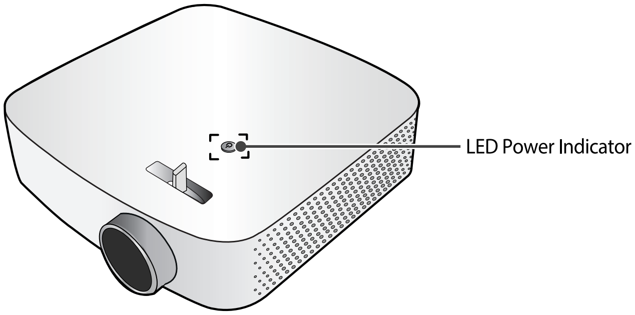
	Power On	Press the power button once while the projector is off.
	Power Off (Press and Hold)	Press and hold the Power button for more than 3 seconds while the projector is on.
<, >	Volume Control	Adjust the volume by pressing the left/ right button.
∧, ∨	Channels Control	Change the channel by pressing the up/ down button.

Adjusting the menu

Press the power button once while the projector is on.
Press the top, bottom, left, and right buttons to move to a menu item (⏻, ⮒, ✕, ⚙). After moving to the desired menu item, press the Power 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

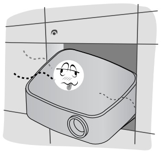


LED Power Indicator	
Red	Power standby state
Off	The projector is operating with the power on. / When the projector's power switch is switched **OFF**.

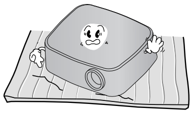
Installation

Installation Precautions

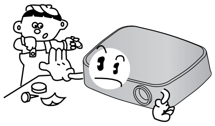
- Place the projector in a well-ventilated environment.
  - To prevent internal overheating, install the projector in a well-ventilated place. Do not place anything near the projector. That may block its air vents. If the air vents are blocked, the internal temperature of the projector will increase.



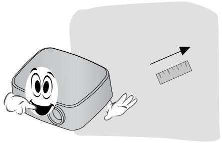
  - Do not place the projector on a carpet or rug. If the projector's inlet vent is on the bottom, be careful not to block the vent and always use the projector on a solid, level surface.



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



  - Leave an adequate open area (30 cm [11.8 inches] or more) around the projector.

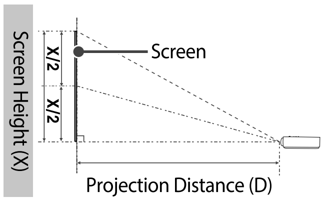


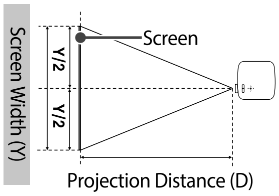
- Do not place the projector in a hot, cool, or humid environment.
- Do not place the projector in a place where it will easily attract dust.
  - This may result infire.
- Never open any cover on the projector. There is a high risk of electric shock.
- The projector is manufactured using high-precision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

Projection Distance per Screen Size

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

Ratio of upward projection: 100 %



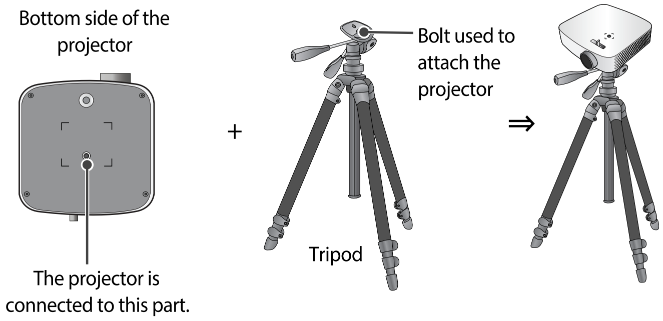


16:9 Aspect Ratio							
Screen Size		Screen Width (Y)		Screen Height (X)		Projection Distance (D)	
(inches)	(mm)	(inches)	(mm)	(inches)	(mm)	(inches)	(mm)
25	635	21.7	553	12.2	311	31.1	791
30	762	26.1	664	14.7	374	37.4	951
40	1016	34.8	886	19.6	498	49.8	1266
50	1270	43.5	1107	24.5	623	62.3	1583
60	1524	52.2	1328	29.4	747	74.8	1900
70	1778	61.0	1550	34.3	872	87.2	2216
80	2032	69.7	1771	39.2	996	99.7	2533
90	2286	78.4	1992	44.1	1121	112.1	2849
100	2540	87.1	2214	49.0	1245	125.0	3177

- The figures in the above table may differ depending on the installation environment.

How to Install the Projector On a Tripod

- You can install the projector using a camera tripod.
  As shown below, you can mount the projector instead of a camera on the tripod.
- When stabilizing the tripod, we recommend using a locking bolt of standard size 4.5 mm (0.1 inches) or less. The maximum size allowed for the locking bolt is 5.5 mm (0.2 inches).
  (If it is longer than the maximum allowed size, it may damage the projector.)

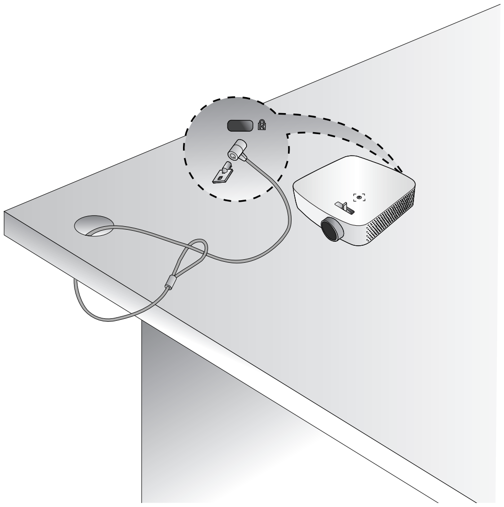

Bottom side of the projector
+
Bolt used to attach the projector
⇒
Tripod
The projector is connected to this part.

CAUTION

- If you are using a tripod, be careful not to apply external force to the tripod. Doing so may damage the projector.
- Do not place the tripod on an unstable surface.
- Be sure to use a tripod with a maximum load capacity of 3 kg (6.6 lbs) or more.
- To use the projector safely, position the tripod legs so that they are as wide and stable as possible and be sure to securely attach the projector to the tripod.

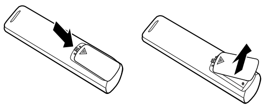
Kensington Security System

- This projector has a Kensington Security Standard connector 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



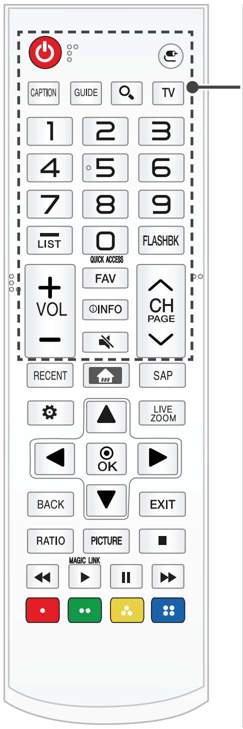
REMOTE CONTROL

Open the battery cover on the back of the remote control and insert the batteries which are specified in the battery room with ⊕⊖ poles pointing in the correct direction. The new and same type of batteries (1.5 V AAA) must be used.



CAUTION

- Do not mix new batteries with old ones.



⏻ (POWER) Turns the Projector on or off.

(INPUT) Changes the input source.

CAPTION Activates or deactivates the subtitles.

GUIDE Shows channels guide.

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

TV Use the external input and switch to watching the TV screen.

Number buttons Enters numbers.

– (Dash) Inserts a dash between numbers such as 2-1 and 2-2.

LIST Accesses the saved channel list.

FLASHBK Displays the channel you were watching previously.

QUICK ACCESS * You can access the application or Live TV channel by using the number buttons as registered.

+ VOL – Adjusts the volume level.

FAV Shows favorite channels.

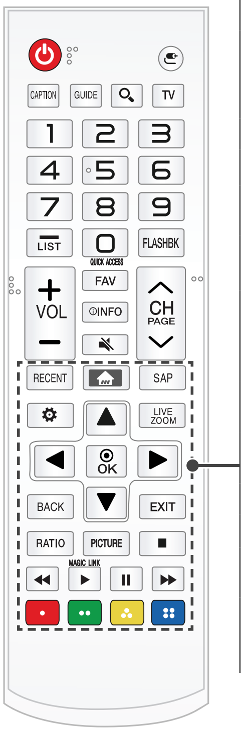
ⓘINFO Shows information on the current program.

(MUTE) Mutes all sounds.

- Pressing and holding the (MUTE) button displays the Accessibility menu.

∧ CH ∨ Changes the TV channel.

∧ PAGE ∨ Moves to the previous/next page.



RECENT Shows the previous history.

⌂ Accesses the Home menu.

- Pressing and holding the ⌂ button displays the previous history.

SAP Enables SAP (Secondary Audio Program) Feature.

⚙ (Q. Settings) Accesses the Quick Settings.

Up/Down/Left/Right buttons Sets the function or moves the cursor.

◉ **OK** Shows the current mode and saves changes to the settings.

LIVE ZOOM By zooming in on the selected area, you can view it in full screen.

BACK Returns to the previous screen.

EXIT Clears all on-screen displays and returns to Projector viewing.

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

PICTURE Changes the picture mode.

■, ▶, ❚❚, ◀◀, ▶▶ Control buttons for media contents

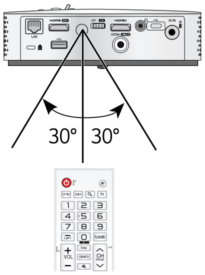
MAGIC LINK * Provides content related to the program you are currently watching.

Colored buttons

These access special functions in some menus.
(🟥 : Red, 🟩 : Green, 🟨 : Yellow, 🟦 : Blue)

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

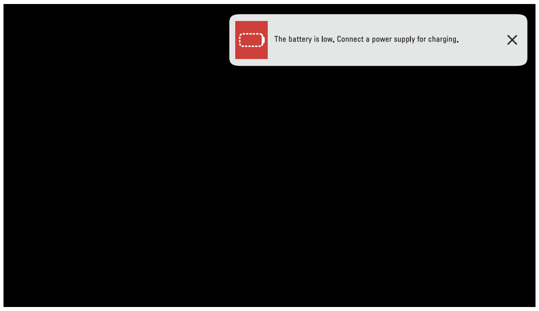
NOTE



- When using the remote control, the optimal operation range is 6 meters (19.6 feet) 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 (9.8 feet) or less (left/right) and within a 30 degree arc of the remote control IR receiver.
- For seamless operation, do not block the IR receiver.
- When you carry the remote control in the portable bag, make sure that the buttons on the remote control are not pressed by the projector, cables, documents or any other accessories in the bag. Otherwise, it may significantly reduce the battery life.

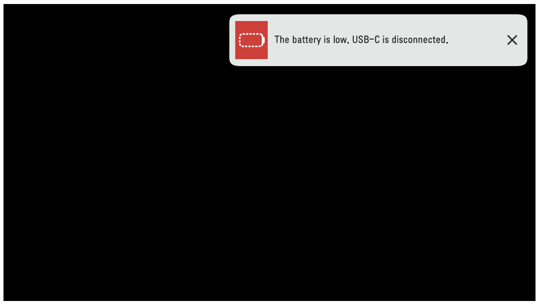
USING THE PROJECTOR

Using The Battery



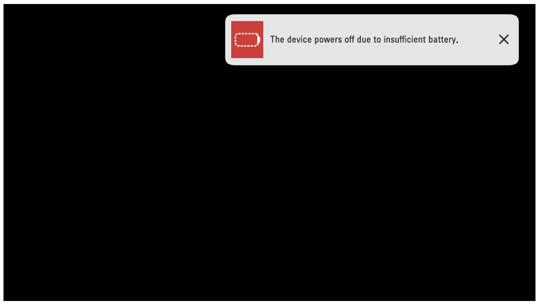
The battery is low. Connect a power supply for charging.

- It is displayed when the battery is low (Energy Saving will be changed Maximum mode and will be disabled).
- If the screen shows a low battery message, be sure to charge the battery.



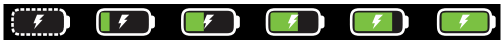
The battery is low. USB-C is disconnected.

- It is displayed when the battery is low during the USB-C connection. When displayed, USB-C connection will be released.
- Charge the battery when this message is displayed.


The device powers off due to insufficient battery.

- It is displayed when the battery is running out.
- As your battery is running out, the projector will turn off immediately.
- If the battery runs out, the projector can only be turned on after it has been connected to a power supply.
- If power is supplied via USB-C, the product can only be turned on again after the battery has been charged for at least 2 minutes.

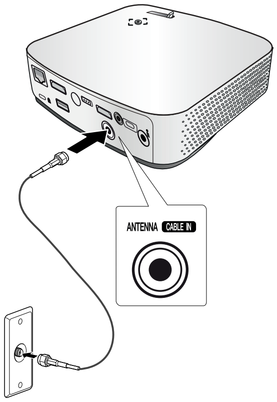
Battery using time information

Status	Time and Display
Charging	About 3 hours (When in standby and charging)
Usage Hours	Up to 2.5 hours (Available battery using time up to 2.5 hours when Energy Saving mode set to Max.)
Battery Level Indicator	 Step 1 Step 2 Step 3 Step 4 Step 5 Full

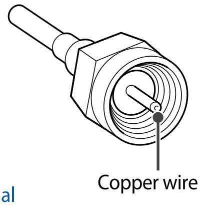
- Check the battery level in the upper right corner of the screen by pressing the ⌂ button on the remote control.
- If you do not intend to use the projector for a long time, leave the battery charged at 40 % to 50 % (🔋).
- The battery is automatically recharged when the projector is connected to a power supply.
- Charge the battery fully when you first use the projector.
- The battery standard usage time given in the manual is based on measurements taken by LG; the actual time may vary depending upon usage.
- Battery usage time may vary depending on broadcast type, operating temperature, period of use, and user preferences.
- As the battery is consumable, its lifetime gradually decreases. When the battery's life is reduced by half, replace it with a new battery from an LG Electronics Customer Support Center.
- Do not store or transport at pressures lower than 11.6 kPa (1.68 psi) and at above 15 000 m (49212.5 feet) altitude.
- Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types).
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Remove the power cable in places that are not suitable for use of the product.

Connecting the Antenna or Cable

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



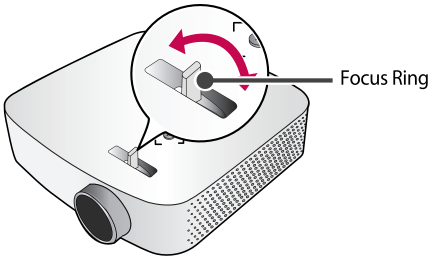
NOTE



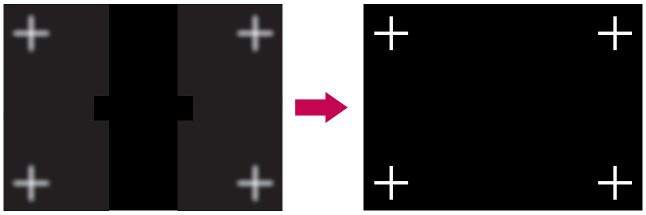
- Make sure not to bend the copper wire of the RF cable (75 Ω). Turn the input jack to the right to fasten it.
- Ensure you use a standard coaxial cable (75 Ω, sold separately) when connecting to the projector input.
- For better image quality in locations where signal strength is low, purchase and install a signal amplifier (booster).
- A signal splitter is required if you want to use two or more projectors through one antenna.
- If you have any problems when installing the antenna, please consult a suitable retailer or the store where you purchased the antenna.

Focus of the Screen Image

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



- ⚙ → ⋮ → Picture → Focus Test
  To focus the image, use the Focus Test function to slowly adjust the focus ring to the left or right while viewing the + mark on the screen. Optimal focus is reached when the left and right sides of the screen appear balanced.
  Make sure the product does not move when adjusting the focus.



Watching With the Projector

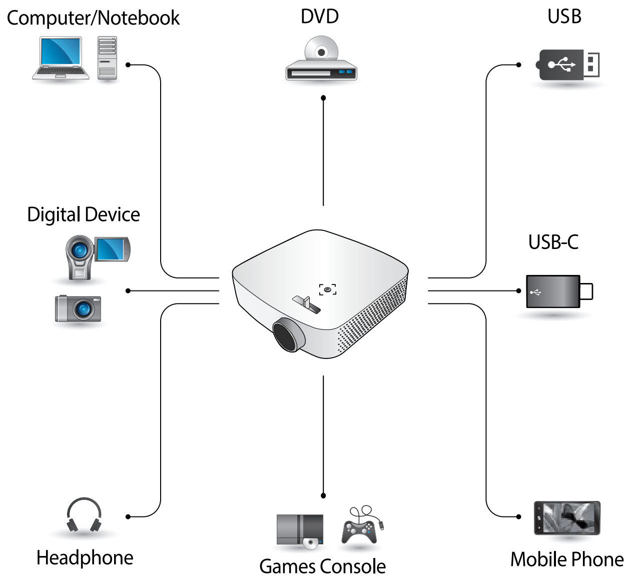
1. Connect the power cord correctly.
2. Place the **OFF** / **ON** switch on the rear port area to **ON** and press the ⏻ (POWER) button on the projector or on the remote control. (If the switch is placed to **OFF**, the projector will not turn on.)
3. In the Language Selection screen, select a language.
4. In the Home/Store Mode screen, select the setting mode you want. (Store Mode is used when displaying the product in-store. The picture mode is automatically reset after a certain period of time. You can select Home Mode to use the product at home.)
5. Select the ⮐ (INPUT) → All Inputs and select the input signal you want.
6. Control the projector using the following buttons while watching projector.

Button	Description
∧ CH ∨	Changes the TV channel.
+ VOL −	Adjusts the volume level.
🔇 (MUTE)	Mutes the sound from the projector.

7. To turn the projector off, press the ⏻ (POWER) button.

CONNECTING DEVICES

You can connect various external devices to the projector.



HDMI - Page 38, 39, 40
USB-C - Page 41
Headphone - Page 42
Smart device - Page 43

HDMI Connection

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

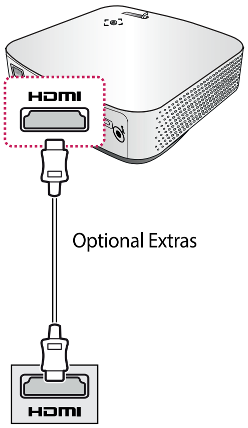
You can connect with any HDMI input port.

- (INPUT) → All Inputs → HDMI1 /HDMI2

Connecting to HD Receiver, DVD, or External Devices

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.



NOTE

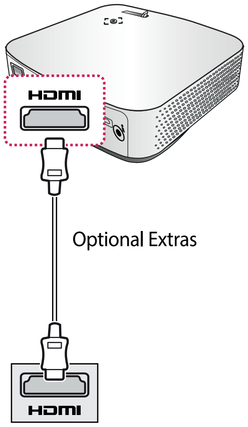
ARC (Audio Return Channel)

- External audio devices that support SIMPLINK and ARC must be connected using HDMI 1 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.

Connecting a PC

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

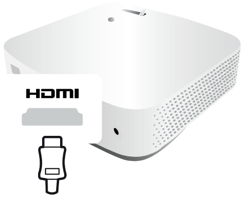
Using an HDMI cable, connect the HDMI port of the projector to the HDMI output port of your PC. Both video and audio are output at the same time.



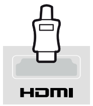
Connecting a Laptop

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

Using an HDMI cable, connect the HDMI port of the projector to the HDMI output port of your laptop. Both video and audio are output at the same time.



Optional Extras



~~Examples of switching output settings when connecting a laptop~~

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

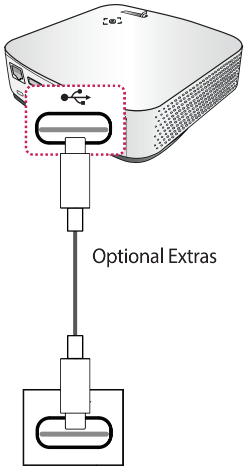
Brand	Switching Output
NEC	[Fn]+[F3]
Panasonic	[Fn]+[F3]
Toshiba	[Fn]+[F5]
IBM	[Fn]+[F7]
Sony	[Fn]+[F7]
Fujitsu	[Fn]+[F10]
LG	[Fn]+[F7]
Samsung	[Fn]+[F4]
Macintosh	Adjust the control panel to enable mirroring after start-up.

Connecting with a USB-C Cable

Computer/Laptop and Phone Connections

- (INPUT) → All Inputs → USB-C

Use a USB-C cable to connect to the projector's USB-C port and the USB-C output port on your PC/laptop or phone. To find out whether your device is USB-C-certified, please contact your device manufacturer. Both video and audio are output at the same time.



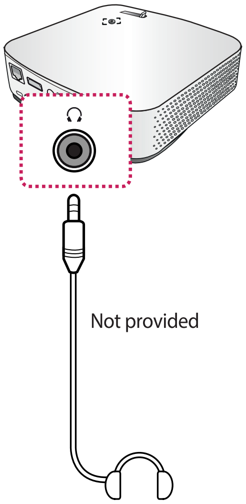
NOTE

- PD (Power Delivery) and DP Alternate Mode are supported.
  - A USB-C gender changer may be necessary depending on the cable used if using PD (Power Delivery).
- The function may not operate properly depending on the connected device's specifications, USB-C cable status, or surroundings.
- PD functions may charge/discharge the projector or not operate depending on the specifications of the connected devices.
- The charging feature may function differently with some devices (MacBook Pros, etc.) when connected.
- Check the resolution of the connected devices before using the DP Alternate Mode function.

Connecting Headphones

Connecting Headphones

You can listen to the audio through a headphone.



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

- (INPUT) → All Inputs → HDMI1 /HDMI2
- The picture may look different from the actual product.

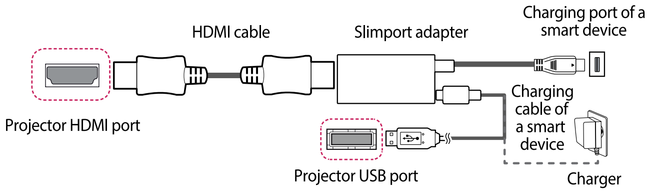
Connect a smart device to the projector using a cable1) and set the external input of the projector to HDMI. The smart device screen will then be displayed through the projector. You can connect with any HDMI input port.

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

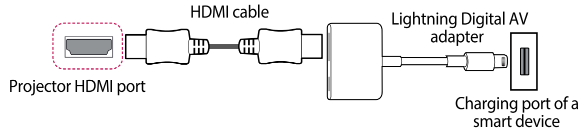
Supported smart devices may change depending on the circumstances of each manufacturer.

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

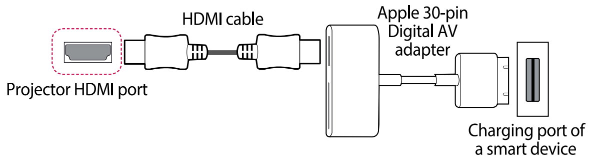
Slimport supported devices



Apple Lightning Digital AV adapter supported devices



Apple 30-pin Digital AV adapter supported devices


HDMI cable
Apple 30-pin Digital AV adapter
Projector HDMI port
Charging port of a smart device

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.
- To remove dust or stains on the lens, use a compressed air duster, cotton swab, or soft cloth to gently wipe the lens.
- Do not wipe the lens while the product is in use or immediately after it has been turned off.
- When cleaning the lens, do not use a cleanser, automobile or industrial shiner, abrasive, wax, benzene, alcohol, water, etc., as this may damage the product.

Cleaning the Projector Case

- To clean the projector case, first unplug the power cord.
- To remove dust or stains, use only a dry, lint-free, nonabrasive cloth to polish the lens.
- Do not use alcohol, benzene, thinners, or other chemicals, which may damage the case.

SPECIFICATIONS

<table>
<tr><th></th><th colspan="2"></th></tr>
<tr><td>Resolution (Pixel)</td><td colspan="2">1920 (Horizontal) × 1080 (Vertical) [1)]</td></tr>
<tr><td>Aspect ratio</td><td colspan="2">16:9 (Horizontal:Vertical)</td></tr>
<tr><td>Projection distance (Screen size)</td><td colspan="2">791 mm ~ 3177 mm (31.1 inches ~ 125.0 inches)
(635 mm ~ 2540 mm [25 inches ~ 100 inches])</td></tr>
<tr><td>Ratio of upward projection</td><td colspan="2">100 %</td></tr>
<tr><td>Working range of the remote control</td><td colspan="2">6 m (19.6 feet) (Max.)</td></tr>
<tr><td>Power consumption</td><td colspan="2">65 W</td></tr>
<tr><td rowspan="2">AC-DC Adaptor</td><td colspan="2">Manufacturer: APD
Model: DA-65G19</td></tr>
<tr><td colspan="2">19 V ⎓ 3.42 A
(Adaptor Input 100-240 V @ 50/60 Hz)</td></tr>
<tr><td>Audio Output</td><td colspan="2">1 W + 1 W</td></tr>
<tr><td>Television System</td><td colspan="2">ATSC / NTSC-M / 64 & 256 QAM</td></tr>
<tr><td>Program Coverage</td><td colspan="2">VHF 02 to 13, UHF 14 to 69, CATV 01 to 135,
DTV 02 to 69, CADTV 01 to 135</td></tr>
<tr><td>External Antenna Impedance</td><td colspan="2">75 Ω</td></tr>
<tr><td>Height</td><td colspan="2">49 mm (1.9 inches) (without foot),
52.3 mm (2.0 inches) (with foot)</td></tr>
<tr><td>Width</td><td colspan="2">170.0 mm (6.6 inches)</td></tr>
<tr><td>Depth</td><td colspan="2">170.0 mm (6.6 inches) (without lens),
178.0 mm (7.0 inches) (with lens)</td></tr>
<tr><td>Weight</td><td colspan="2">910 g (2.0 lbs)</td></tr>
<tr><td rowspan="2">USB Device</td><td>USB 2.0 Standard-A</td><td>Output: 5 V, 0.5 A (Max.)</td></tr>
<tr><td>USB Type-C</td><td>Output: 5 V, 1 A (Max.)
Input: 5 V/2 A, 9 V/2 A, 15 V/2 A, 20 V/2 A (Max.)</td></tr>
</table>

1) Full HD resolution with 2.1 million discrete pixels projected by XPR (Expanded Pixel Resolution) video processing.

Environment Condition	Temperature	
	Operation	0 °C to 40 °C (32 °F to 104 °F)
	Storage	-20 °C to 60 °C (-4 °F to 140 °F)
	Relative Humidity	
	Operation	0 % to 80 %
	Storage	0 % to 85 %

- Use only power supplies listed in the user instructions.
- Contents in this manual may be changed without prior notice due to upgrade of product functions.

HDMI (DTV) / USB-C (DTV) Supported Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480p	31.46	59.94
	31.50	60.00
720 x 480p	31.47	59.94
	31.50	60.00
1280 x 720p	44.96	59.94
	45.00	60.00
1920 x 1080i	33.72	59.94
	33.75	60.00
1920 x 1080p	26.97	23.97
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.43	59.94
	67.50	60.00

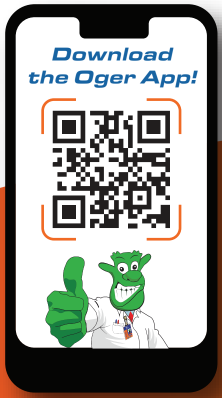
HDMI (PC) / USB-C (PC) Supported mode

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	60.00
1152 x 864	54.34	60.05
1280 x 1024	63.98	60.02
1360 x 768	47.71	60.01
1920 x 1080	67.5	60.00

- If an invalid signal is input into the projector, it will not be displayed properly on the screen or a message such asNo 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).
- 1920 x 1080 is recommended as the best picture quality in the PC mode.

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.
In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.
LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com.
This offer is valid for a period of three years after our last shipment of this product.
This offer is valid to anyone in receipt of this information.



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.

ABOUT PROJECTOR

Image shown may differ from your projector.

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

Green: the buttons and the text to be displayed on the projector screen.

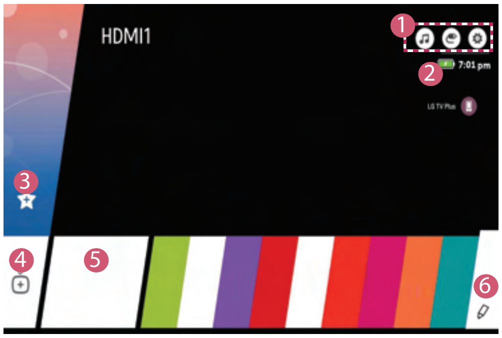
CONTENTS

ABOUT LG PROJECTOR

Home Tutorial

Using the Home feature of the LG Projector

You can open the Home screen by pressing the ⌂ button on your remote control. You can combine frequently used apps on a single screen and use whichever you want at any time.



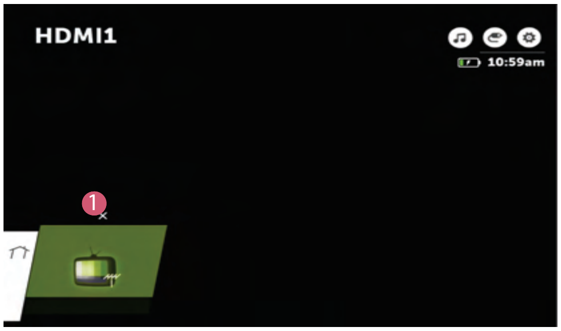
	Description	
①	♫	You can use your projector's other features while listening to music. • This feature is available on certain models only.
	⇄	You can switch to another input or change your settings.
	⚙	You can easily change the settings of your projector. Select ⋮ for advanced setup.
②	Displays the remaining battery life. • This feature is available on certain models only.	
③	Add content you like to use, easily and quickly. (This feature is not supported in some countries. When you select the feature, you will be directed to the LG Content Store.)	

	Description
④	By adding channels you like, you can check channel information and watch your desired channel easily and quickly.
⑤	This is a list of recently used apps. To access the list of recently used apps, select this item and then press and hold the Wheel (OK) or ◉ OK button. You can view all the apps you used recently in the list.
⑥	You can run, move, and delete all the apps installed on your projector.

Using Recent List

To access the list of recently used apps, press and hold the ⌂ button on your remote control, or press and hold a recently used item on the Home screen. You can run or exit all the apps you've used recently.

- The On Screen Display (OSD) of the projector may differ depending on the model.

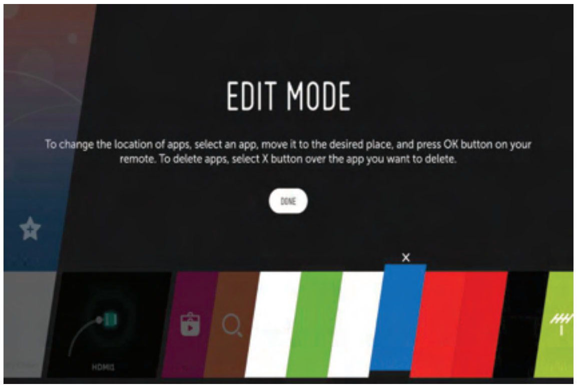


	Description
①	Exit the app.

Managing Apps

You can view a list of all apps installed on your projector, change their positions, or delete them.

- Some apps cannot be edited.



EDIT MODE

To change the location of apps, select an app, move it to the desired place, and press OK button on your remote. To delete apps, select X button over the app you want to delete.

1 Select the app you want to edit, and press and hold the ⓘ Wheel (OK) or ◉ OK button on the Remote Control. This will activate the app edit mode.

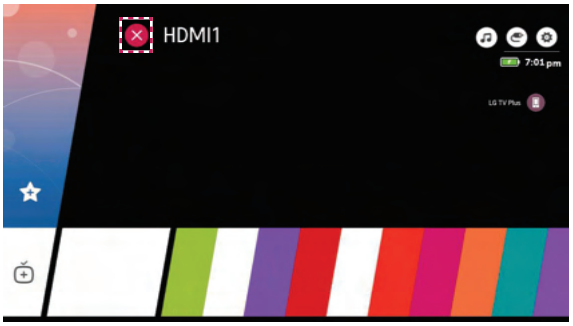
2 To move the app to your desired position, go to the position and press the ⓘ Wheel (OK) or ◉ OK button. To delete an app, select the ✕ above the app.

- You can move and delete as many apps as you wish before exiting the edit mode.
- You can also move apps with the ◁/▷ buttons on your remote control.

3 When you have completed the edit, click DONE to exit the app edit mode.

Stopping the current function

- The On Screen Display (OSD) of the projector may differ depending on the model.



1 Press the ⌂ button on the remote control.
2 Select the application name at the top left corner of the screen by the Remote Control to display the Close icon.
3 Select the Close icon displayed next to the application name to quit the function in use.

Prepare Live TV

Watching TV broadcasting

1 Connect the broadcast antenna/cable to the projector. You may also connect a piece of equipment that can receive broadcasting such as a set-top box instead of the antenna/cable. Press the ⌂ button on the remote control. To see the details, select Set-Top Box from the device list that is displayed when operating the Device Connector.

2 Start the ⚙ (Q. Settings) → ⋮ → Channels → Channel Tuning → Auto Tuning. Finds and adds only channels being broadcast.

Network Setting

Network Setting

If you configure settings for the network, you can use various services such as online contents and applications.

Setting a Wired Network

1 Connect the LAN port of the projector and the router using a LAN cable. The router should be connected to the Internet beforehand.

2 Press the ⚙ (Q. Settings) button on the remote control and select ⋮ → Network → Wired Connection (Ethernet) . This will start the wired network connection.

- If the router supports DHCP, the projector is automatically connected to the network when you connect the projector to the network with a LAN cable.

Setting a Wireless Network

1 Turn on the power of the router connected to the Internet.

2 Press the ⚙ (Q. Settings) button on the remote control and select ⋮ → Network → Wi-Fi Connection. This will start the Wireless network connection.

3 When the network search is complete, the list of networks available for connection is shown.

4 Select a network to connect. If your Wireless Router is password protected, enter the password configured for the router.

Network Setting Warnings

- Use standard LAN cable (connect to Cat7 or higher with RJ45 connector, 10 Base-T, or 100 Base TX LAN port).
- Resetting the modem may fix some network connection problems. Turn the power OFF, disconnect and reconnect it, and then turn the power on to solve the problem.
- LG Electronics is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- The network connection may not work properly because of network settings or the Internet service provider.
- DSL service must use a DSL modem; and cable service must use a cable modem. Since only a limited number of network connections may be available, projector network setting may not be used depending on the contract with Internet service provider. (If the contract does not allow more than one device per line, only the already-connected PC may be used.)
- A wireless network can experience interference from other devices that use the 2.4 GHz frequency (wireless phone, Bluetooth device, or microwave oven). Although interference can also happen when using the 5 GHz frequency, it is less likely to occur.
- The wireless environment can make wireless network service run slowly.
- Failure to turn off all local home networks may cause excessive traffic on some devices.
- The access point device must support wireless connections and wireless connection feature must be enabled on the device to have AP (access point) connection. Contact the service provider for availability of wireless connections on the access point.
- Check SSID and security settings of the AP. Refer to the appropriate documentation for SSID and security settings of the AP.
- Invalid settings of network devices (wired/wireless line sharer, hub) can cause the projector to operate slowly or not operate properly. Install the devices correctly according to the appropriate manual and network.
- The connection method may differ depending on the AP manufacturer.

HOW TO OPERATE PROJECTOR

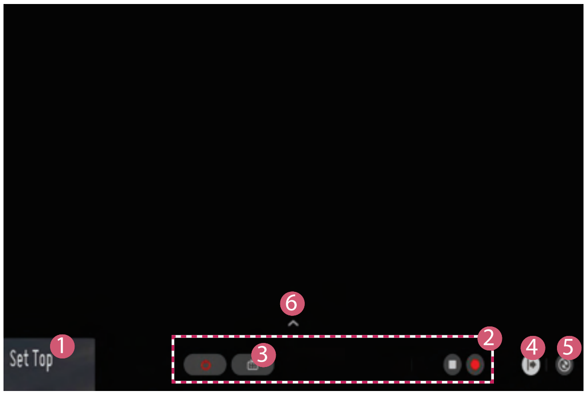
Using the Screen Remote

You can control external devices connected to your projector by using the Screen Remote displayed on your projector screen.

- This feature is available on certain models only.

1 Press the ▤ button on the Magic Remote.

2 Using the Magic Remote, select your desired button on the Screen Remote displayed on your projector screen.



	Description
①	Configure Set Up Universal Control for external devices connected to your projector. When you select a device, the Screen Remote turns into the remote control for the device. If a sound bar is connected, the Screen Remote can be used as a remote control for the sound bar.
②	The buttons suitable for the selected device appear.
③	You can capture your projector screen. • This feature is available on certain models only. • You can view/delete screen-captured images in the Photo & Video app.
④	You will see more remote control buttons.
⑤	You can start the Device Connector app. You can set the universal remote control.
⑥	You can change the position of the screen remote control.

- This feature can only be used with the Magic Remote.
- You can purchase the Magic Remote separately if it is not provided.
- The types of buttons appearing on the Screen Remote vary, depending on the region and the type of connected device.
- Some features and services may not be provided depending on models or regions.

Setting Universal Control

You can control devices such as Set-Top Box, Blu-ray Player, or Home Theater using by Magic Remote or Slim Remote.

- This feature is available on certain models only.

1 Check that the device you want to set is connected to your projector.

2 Press the ⌂ button on the remote control and select at the top right.
(Press the button on the remote control.)

3 Select All Inputs and go to INPUTS .

4 Select the input mode that the device is connected to in INPUTS .

5 If you press Set Up Universal Control , you can set up the Universal Control.
Follow the instructions on the screen to finish the setup.

- If you want to change or cancel Universal Control Settings, go to → All Inputs and select Edit Universal Control .
- You can also set the Universal Control in ⌂ → Device Connector.
- You can use this only with the Magic Remote or Slim Remote. (The provided remote control differ depending upon model.)
- You can purchase the Magic Remote separately if it is not provided.
- This feature is available in certain countries only.
- When changing the settings, check that the device to be changed is turned on.
- You can set one device per type.
- If you connect to a network before setting the Universal Control, the latest update for the supported manufacturer list becomes available.
- Some buttons may not work depending upon the model of the external device.
- Place the device near the projector for seamless operation.
- If there is an obstacle in front of the device, it may not be able to receive the signal properly. If the device is in a drawer, open the drawer.

SIMPLINK (HDMI-CEC)

Using SIMPLINK

You can conveniently control and use various multimedia devices connected through HDMI with the projector's remote control.

1 Connect the SIMPLINK HDMI Output port to the projector's HDMI IN port with an HDMI cable.

2 Press the ⚙ (Q. Settings) button on the remote control and select ⋮ → General → SIMPLINK (HDMI-CEC) .

3 Set SIMPLINK (HDMI-CEC) to On.

4 Configure the Auto Power Sync settings to On or Off. (If Auto Power Sync is set to On, turning on a SIMPLINK-linked device will turn the projector on. When you turn off the projector, the device will also be turned off.)

5 Turn on the connected device. When the projector automatically connects to the device, the input will switch. If the device is not automatically connected to the projector, click the (INPUT) button.

- This feature works only with devices with the SIMPLINK logo. Check for the SIMPLINK logo on the external device. There may be a problem using the device if the device does not meet the required specifications.
- A high-speed HDMI® cable with CEC (Consumer Electronics Control) function is required to use SIMPLINK. Pin 13 of the high-speed HDMI® cable is used for data transfer between devices.
- If you want to output sound to the external audio equipment connected through the HDMI cable, set SIMPLINK (HDMI-CEC) to On.

Supported SIMPLINK Functions

- Instant Play
  When you start a multimedia device, you can immediately watch content from the device on the projector without having to control anything.
- Controlling devices with the projector remote control
  Enables the user to control multimedia devices with the projector remote control to watch content.
  - The pointer function of the Magic Remote can be limited.
- Main Power Off
  If Auto Power Sync is set to On in the SIMPLINK (HDMI-CEC) settings and the projector is turned off, the devices connected to your projector via SIMPLINK will also be turned off. Likewise, your projector will be turned off if you turn off a device connected to your projector via SIMPLINK.
  - This feature is only available in certain devices.
- Main Power On
  If Auto Power Sync is set to On in the SIMPLINK (HDMI-CEC) settings, turning on a SIMPLINK-linked device will turn the projector on.
  - If SIMPLINK (HDMI-CEC) is set to Off, Auto Power Sync can not be set to On.

Using the LG TV Plus App

You can control the functions of your projector by using the app installed on your smart device.

1 Download LG TV Plus app from the Apple App Store or the Google Play Store, depending on the OS of each smart device.

2 Press the ⚙ (Q. Settings) button on the remote control and select ⋮ → Network.

3 Set LG Connect Apps to On.

4 Connect the projector and your smart device on the same Wi-Fi network.

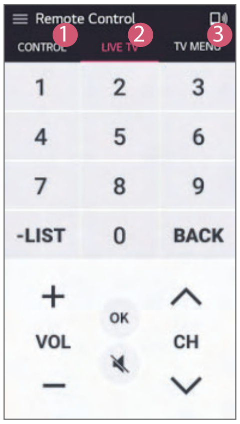
5 Launch the LG TV Plus app on your smart device.

6 Tap the Start button to scan for projectors that can be connected to your smart device.

7 Select the projector you want from the list of search results. A PIN code appears on the projector screen.

8 Enter the PIN code in the LG TV Plus app to pair your smart device with the projector.

9 You can tap the buttons on your smart device's screen to control the projector.



	Description
①	You can use the same functions as the Magic Remote's pointer and arrow keys.
②	You can change the channel, adjust the volume, or make other adjustments without using the remote control while watching a broadcast.
③	You can open an app installed on your projector or configure settings for functions such as switching input or adding favorite channels.

- Some controls may be limited in external input mode.
- The app's screen and functionality are subject to change without prior notice.
- Available features may differ depending on your country and OS.

Magic Mobile Connection

Using Magic Mobile Connection

Magic Mobile Connection lets you share and enjoy the content stored on people's smart devices through your projector.

- It is recommended that your Android smart devices run Lollipop or later versions of Android.

Connecting a Smart Device with Magic Mobile Connection

Set up a connection following the guide below:

1. Install the LG TV Plus app on the smart device.
2. Connect both your projector and the smart device to the same network.
3. Run the LG TV Plus app and set up a connection to your projector following the instructions shown on the screen.
4. Press the ⌂ button, and a list of connected smart devices will appear on the right side of the screen.
5. Select your desired smart device.

- Android smart devices will automatically attempt to reconnect when they enter the network zone after the initial connection has been established.

Sharing Content with Magic Mobile Connection

You can share and enjoy the content stored on your smart device through your projector.

1. Run the LG TV Plus app installed on your smart device.
2. Set up your desired content on your projector.

- Supported features may vary depending on the country.
- Supported features may vary depending on the version of your smart device's operating system.

Using a Keyboard and Mouse

Using a USB Wired/Wireless Mouse

Connect your mouse to the USB port. Use the mouse to move the pointer on the projector screen and select the menu you want.

- The right button and the special buttons on the mouse do not work.
- When using a wireless USB mouse/keyboard, the experience may be affected by the distance and wireless condition.

Using a USB Wired/Wireless Keyboard

Connect your keyboard to the USB port. You can enter text with the connected keyboard device.

- It is not possible to enter text on some screens.
- It is recommended that you use a product that has been tested for compatibility with LG projectors.
  - LOGITECH K360, LOGITECH K400, LOGITECH K750, LG Electronics MKS-1200
- You can change the input language by pressing the language switch key or the right Alt key. It can also be changed by pressing the Ctrl key and the Space key at same time.
- Wireless USB keyboard use may be affected by the usage range and the wireless environment.
- To enter text in the text field, use the on-screen keyboard on your projector screen or a USB keyboard.

Using a Gamepad

Connect your gamepad to the USB port on the projector if the game requires a gamepad.

- It is recommended that you use a gamepad that has been tested for compatibility with LG projectors.
  - LOGITECH F310, LOGITECH F510, LOGITECH F710, LOGITECH Rumblepad 2, LOGITECH Cordless Rumblepad 2, LOGITECH Dual Action Gamepad, MICROSOFT Xbox 360 Controller (cable), SONY Playstation(R)3 Controller

ENJOY LIVE TV

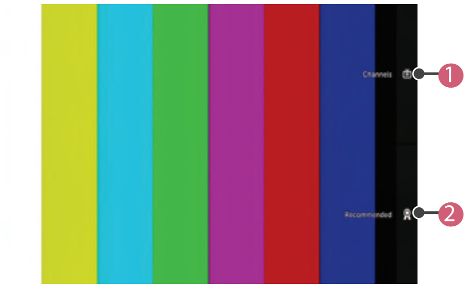
Live Menu

Using Live Menu

You can use the relevant features with ease when watching TV broadcasts.

1 Run Live TV by pressing ⌂.

2 Press ▷ button (on the right) on the remote control or move the Magic Remote pointer to the right side of the projector screen.



	Description
①	View a list of broadcast content that is currently being broadcast.
②	Get channel and program recommendations based on your viewing history.

- The channels displayed in Channel List are a configuration of channels provided by the broadcast service provider. Therefore, if the broadcast service provider has changed its channel configuration without notice, the channels displayed in Channel List may differ from the actual TV channels.
- Because channel information displayed in Channel List includes information provided by external Electronic Program Guide (EPG) providers, it may differ from the actual TV channels.
- You must have a network connection with Internet access to use the Program Recommendation feature in Recommended List.
- To receive proper recommendation services, you need to set up your network, region and auto tuning.
- Options may vary depending on the country.

My Channels

Using My Channels

If you add channels to My Channels, you can check and watch the programs being broadcast in the added channels of any app.

Adding a Channel

1. Press the ⌂ button on your remote control.
2. Select My Channels at the bottom left of the screen.
3. Selecting Add Channel displays a list of channels.
   Select the channel you want to add from the channel list.
   - You can continue to add other channels to My Channels in the same way.

- To add set-top box channels, you need to set Setup universal control in Device Connector and use a Magic Remote. (This feature is available on certain models only.)
- To switch to a set-top box channel, you need to select among the added channels using your Magic Remote. (This feature is available on certain models only.)
- If you select a channel already added in My Channels, you can access the channel in other apps as well.
- You can move/delete added channels in the same way as when you manage apps.

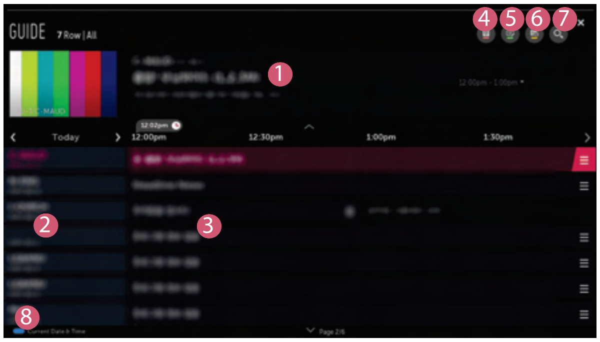
Guide

Viewing Guide

You can view programs and the schedule of each program.

1 Press the 🏠 button on the remote control.

2 You can launch the Guide application.



	Description
①	You can view information about the program you are currently watching as well as the focused program information.
②	Displays the information of the broadcasting company.
③	Navigate to a desired program and press the ⓓ Wheel (OK) or ◉ OK. You can view more information on the program and perform WATCH or REMINDER , etc.
④	Sets the filter.
⑤	Launch CHANNEL MANAGER .

	Description
⑥	Launch TV Scheduler.
⑦	Launch SEARCH .
⑧	Press the remote control's 🔵 button to navigate to the Guide screen for the current date and time.

Viewing Set-Top Box Guide

After connecting the Set-Top Box, you can view programs and the schedule of the Set-Top Box and use the Magic Remote.

- This function is available on certain models or in certain countries only.

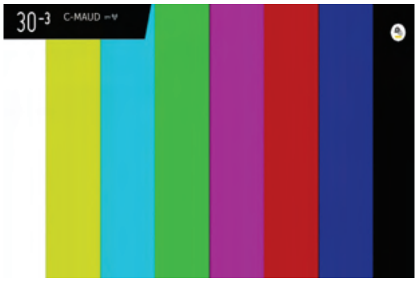
Checking Program Info

Viewing Program Information

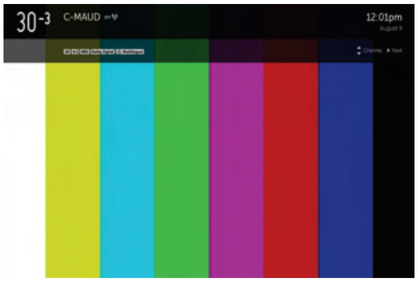
Information about the program you are currently watching, the current time, etc. are displayed.

- The On Screen Display (OSD) of the projector may differ depending on the model.

1 While watching a live broadcast press the ⓘ Wheel (OK) or ◉ OK button.
The Channel Banner appears.



2 Select the Channel Banner. You can view detailed information about the program you are currently watching.



Using the △/▽/◁/▷ buttons on your remote control, you can view information about upcoming programs or other channels without changing the channel.

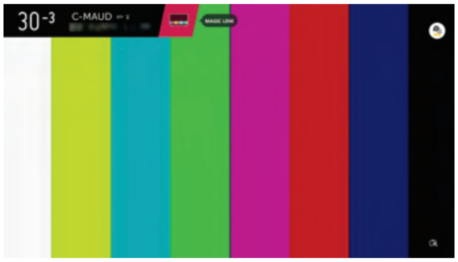
- You can view broadcast information about other channels using the △/▽ buttons.
- You can view broadcast information about the channel you are currently watching using the ◁/▷ buttons.

Using MAGIC LINK

It offers various videos and information related to the program you are currently watching.

If you are watching a program via a set-top box, you should complete the universal remote control settings to use the MAGIC LINK function properly.

1 Press the remote control's ◎ Wheel (OK) or ◉ OK button or move the pointer to the top of the screen. The Channel Banner appears.



2 Press the MAGIC LINK button in the Channel Banner.

3 Various kinds of information related to the program you are watching will appear at the bottom of the screen. Select the desired information.

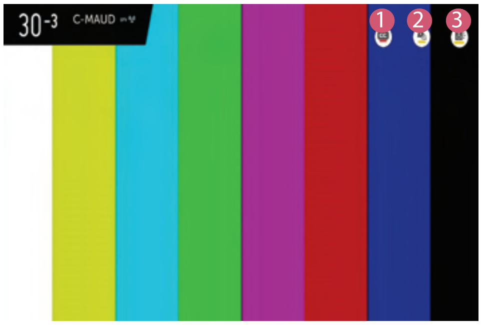
- The search range may vary depending on the country.
- While MAGIC LINK is in use, the content provided may not always match the program that you are watching at the time. Change the channel with the Magic Remote before using MAGIC LINK .
- Some adult-only channels or locked channels do not support this function.
- The search results may vary depending on the information on the program you are watching.
- The MAGIC LINK feature via set-top box is supported in some countries or models only.
- Some set-top boxes may not support the MAGIC LINK function.
- Only set-top boxes connected via HDMI input are supported.

Using Advanced Broadcast Settings

If the broadcast you are watching contains Closed Caption, AUDIO LANGUAGE , or Multi Audio information, you can use such features.

1 Press the ⓘ Wheel (OK) or ◉ OK button on your remote control.

2 Select your desired feature in the top of the screen and set the feature to your desired value.



	Description
①	You can set Closed Caption.
②	You can set AUDIO LANGUAGE . • Only available with digital broadcasts.
③	You can set Multi Audio. • Only available with analog broadcasts.

- Available features may vary depending on the broadcast signal.

HOW TO USE VARIETY OF CONTENTS

LG Content Store

You can quickly and conveniently browse for TV Shows, Movies, and more to watch immediately.

You can also download and use apps from various categories such as education, entertainment, lifestyle, news, and games.

1 Press the ⌂ button on the remote control.

2 Launch the LG Content Store application.

- This feature is available in certain countries only.
- Features may be limited in certain countries.
- Content may differ depending upon the model or country.
- Exercise caution when in used by children. Children may have access to inappropriate online content through this product.
- You can block inappropriate online content by restricting access to some apps such as the Internet browser. Restrictions can be set in ⚙ (Q. Settings) → ⋮ → Safety → Application Locks.

Recommended Content on the Main Screen

The main screen of the LG Content Store shows the most popular content for each category. Select any content to view its details.

- Internet connection is required to use this feature.

Creating Wish List

Using My Content

By adding your desired content to My Content, you can use the content easily and quickly anytime.

1 Press the ⌂ button on your remote control.

2 Select My Content in the top left of the screen.

3 Select Add Content.

4 Search for content.

5 Select your desired content from the search results to add it to My Content.

  - You can also select from among recommended content shown under the search box and directly add it to My Content.

- This feature is only available in certain countries.
- The type of content you can add to My Content may vary depending on the country.
- You must have a network connection to use this feature.
- You can move/delete added content in the same way you manage apps.
- Some of the content services added to My Content may not be available if the service has been terminated due to the provider’s circumstances.

Account Creating

Creating LG Account

In Account Management, you can use your email address to create a new LG account.

1 Press the ⚙ (Q. Settings) button on the remote control and select ⋮ → General → Account Management.

2 Select CREATE ACCOUNT . Read and accept the Terms of Service.

3 Enter an ID and a password. Your ID must be your email address.

4 Enter your birthday.

5 Select OK. Go to your email to verify your email address. Please verify your email before the time expires.

6 Log in with your new account to start using the service.

- Internet connection is required to create an account.
- Required information may vary depending upon the country.
- Existing IDs that do not use an email address can be converted to your email address.
- You can log in with your Facebook or Google account. (Features other than login may not be available.)
- You may be restricted from the service depending upon your age.

Account Management

Managing your LG Account

You can manage the information of your LG account.

1 Press the ⚙ (Q. Settings) button on the remote control.

2 Go to ⋮ → General → Account Management to log in.

Personal Information

You can view or edit your information of the account currently logged in.
You can change the password or press EDIT to edit your personal information.
This feature is available in certain countries only.

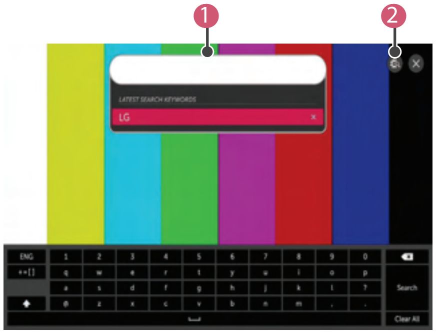
Search Content

Search

Search allows you to find and use a variety of content and information. You can search for files, including image, video, audio, and recording files.

Searching for Content

1. Run Search by pressing the 🔍 (SEARCH) button on your remote control.
2. Search for a variety of content and information by typing in your desired search terms.



	Description
①	Enter your desired search term.
②	Change the settings of the features provided by Search. • Some apps provide a feature that lets you search within your projector. If you run a search in such apps, the search will be carried out in Search.

- Search results may vary depending on the channel, region, network settings, and whether you have agreed to the terms and conditions.

Use App & Contents

Installing Apps

You can use your LG account to install various apps on your projector.

1 Press the ⌂ button on the remote control.
2 Launch the LG Content Store application.
3 Select your desired category from the categories shown at the top of the screen. The list of available apps in the selected category will be shown.
4 Select an app to set up from the list.
5 Read the details of the app and then press Install.
6 When the installation is complete, you can run the app immediately.

- Available categories may vary depending on the country or service status.
- If the storage on your projector is insufficient, you can install the apps by connecting an external memory device.
- Some USB storage devices may not be supported or may not work properly.
- USB drivers containing apps from other LG TVs or LG Projectors may not be used.

Watching VOD Content

You can immediately enjoy dramas, movies, and more with real-time streaming.

1. Press the ⌂ button on the remote control.
2. Launch the LG Content Store application.
3. Select your desired category from the categories shown at the top of the screen, such as TV Shows and Movies. The list of available content in the selected category will be shown.
4. Select an item from the list.
5. Read the details of the content and then press Watch Now .
6. Select a playback option. An app may be required to play the content with the selected playback option. If not installed, install the app to play the content.
7. The content is played using the selected option.

- This feature is only available in certain countries.
- Available categories may vary depending on the country or service status.
- Adult authentication is required for playing adult content.

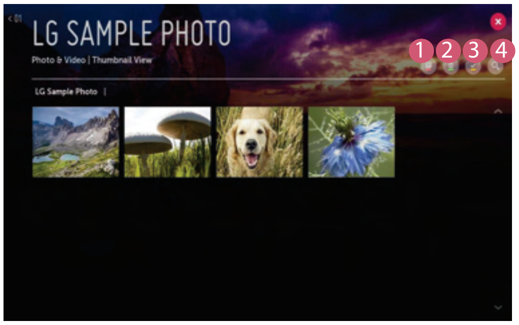
PLAY OTHER DEVICE FILES

Photo & Video

Viewing Photos and Videos

You can view photos and videos using the Photo & Video app.

1 Press the ⌂ button on your remote control.
2 Launch the Photo & Video application.
3 Select your desired storage device.
4 Select and view your desired photo or video.

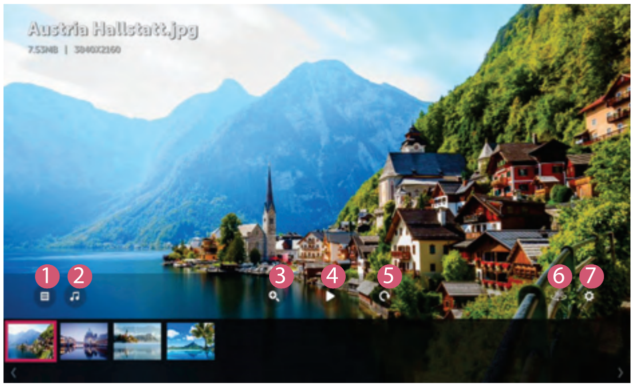


	Description
①	Select your desired type of content and viewing method.
②	Select and delete your desired content. (You cannot delete files that are shared from other devices.)
③	Select the content you want to play. You can only select the same type of content as you first selected.
④	Launch Search.

- Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Photo Player

Selecting a photo in thePhoto & Video app runs the photo player. You can view your saved photos.



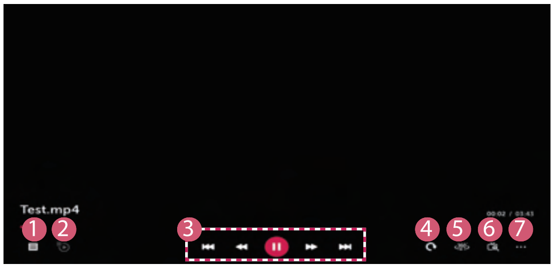
	Description
①	Returns to the entire content list.
②	You can play background music by running the music player.
③	You can zoom the photos in/out.
④	Starts the slide show.
⑤	Rotates photos.
⑥	360-degree photos can be viewed in 360 degrees. • Using the 360-degree mode on a normal photo may distort the image. • This feature is available on certain models only.
⑦	You can set the size of a photo or change the speed and effect of a slide show.

Supported Photo Files

File type	Format	Resolution
.jpeg .jpg .jpe	JPEG	Minimum: 64 x 64 Maximum Normal Type: 15360 (W) x 8640 (H) Progressive Type: 1920 (W) x 1440 (H)
.png	PNG	Minimum: 64 x 64 Maximum: 5760 (W) x 5760 (H)
.bmp	BMP	Minimum: 64 x 64 Maximum: 1920 (W) x 1080 (H)

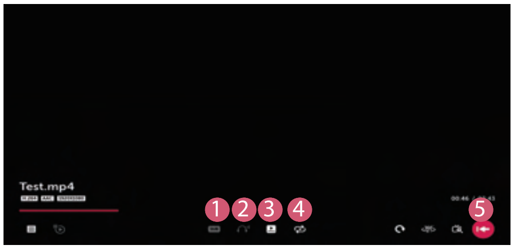
Video Player

Selecting a video in the Photo & Video app runs the video player. You can view your saved videos.



	Description
①	Returns to the entire content list.
②	You can select other content by displaying the playlist while watching a video.
③	You can control basic video playback functions.
④	Rotates videos. • This feature is available on certain models only.
⑤	360-degree videos can be viewed in 360 degrees. • Using the 360-degree mode on a normal video may distort the image. • This feature is available on certain models only.
⑥	By zooming in the projector screen, you can view images in a larger size than the originals.
⑦	You can set additional options.

Setting Additional Options



	Description
①	You can change subtitle settings.
②	You can set audio tracks.
③	You can set continue watching to resume playing from the last viewed scene.
④	You can set continuous playback. If continuous playback is set, the next video is automatically played after the playback of a video is over.
⑤	Returns to the basic operation screen.

Supported Video Files

Maximum data transfer rate:

- Full HD video
  H.264 1920 x 1080@60P BP/MP/HP@L4.2 40 Mbps
  HEVC 1920 x 1080@60P MP@L4.1, Main10 Profile@L4.1 40 Mbps
- ULTRA HD video (ULTRA HD model only)
  [Depends on the model.]
  H.264 4096 × 2160@60P BP/MP/HP@L5.1 60 Mbps
  HEVC 4096 × 2160@60P MP@L5.1, Main10 Profile@L5.1 60 Mbps

Supported external subtitles:

*.smi, *.srt, *.sub (MicroDVD, SubViewer 1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb (PowerDivX), *.dcs (DLP Cinema)

Supported embedded subtitles format:

- Matroska (mkv): Sub Station Alpha (SSA), Advanced Sub Station Alpha (ASS), SRT
- MP4 (mp4): Timed Text

Supported video codecs

Extension	Codec	
.asf .wmv	Video	VC-1 Advanced Profile (except for WMVA), VC-1 Simple and Main Profiles
	Audio	WMA Standard (except for WMA v1/ WMA Speech)
.avi	Video	Xvid (except for 3 warp-point GMC), H.264/AVC, Motion Jpeg, MPEG-4
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, LPCM, ADPCM, DTS
.mp4 .m4v .mov	Video	H.264/AVC, MPEG-4, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, MPEG-1 Layer III (MP3)
.3gp .3g2	Video	H.264/AVC, MPEG-4
	Audio	AAC, AMR-NB, AMR-WB
.mkv	Video	MPEG-2, MPEG-4, H.264/AVC, VP8, VP9, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC, PCM, DTS, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.ts .trp .tp .mts	Video	H.264/AVC, MPEG-2, HEVC
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM
.mpg .mpeg .dat	Video	MPEG-1, MPEG-2
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.vob	Video	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM
.rm .rmvb	Video	RV30, RV40
	Audio	Realaudio6 (cook), AAC LC, HE-AAC

- .rm, .rmvb: This function is available on certain models or in certain countries only.

Cautions for Video Playback

- Some user-created subtitles may not work properly.
- A video file and its subtitle file must be located in the same folder. For subtitles to be displayed properly, make sure that the video file and the subtitle file have the same name.
- Subtitles on a Network Attached Storage (NAS) device may not be supported depending on the manufacturer and model.
- Streams that include Global Motion Compensation (GMC) and Quarterpel Motion Estimation (Qpel) are not supported.
- Playable file sizes may vary depending on the encoding conditions.
- Only Window Media Audio V7 and later are supported.
- The AAC main profile is not supported.
- Video files created by some encoders may not be played.
- Video files in a different format than specified may not be played properly.
- Video files stored on a USB storage device that does not support High Speed may not be played properly.
- DTS codecs are supported only for playbacks of USB and HDMI video files.

ULTRA HD video (ULTRA HD model only)
[Depends on the model.]

- ULTRA HD video (ULTRA HD model only): 3840 x 2160, 4096 x 2160
- Some HEVC-encoded ULTRA HD videos other than the content officially provided by LG Electronics may not be played.
  Some codecs can be supported after a software upgrade.

Extension	Codec	
mkv / mp4 / ts	Video	H.264/AVC, HEVC
	Audio	Dolby Digital, Dolby Digital Plus, AAC

Music

Playing Music

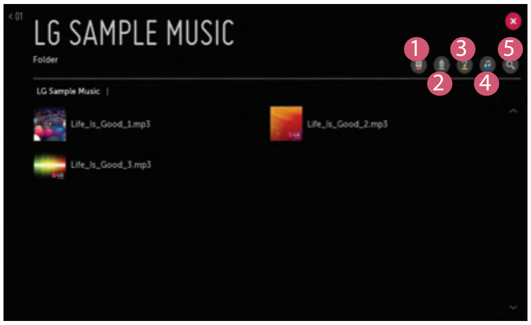
You can listen to music by using the Music app.

1 Press the ⌂ button on your remote control.

2 Launch the Music application.

3 Select your desired storage device.
You can select your desired songs from all of your storage devices and add them to MY PLAYLIST .

4 Select your desired music content and enjoy it.

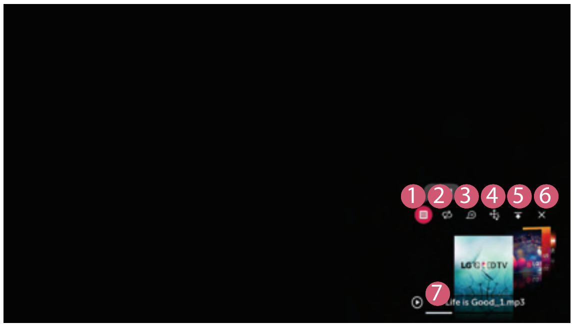


	Description
①	Select the desired type of content list.
②	Select and delete content. (Files shared from other devices cannot be deleted.)
③	Select content and add it to MY PLAYLIST .
④	Open the music player.
⑤	Launch SEARCH .

- If the number of all content is more than 5,000, some content may not be listed up.

Using the Music Player

The music player lets you choose music from other apps and use it as background music.



	Description
①	You can play music from the selected storage device.
②	You can set repeat playback and random playback.
③	The configurable items differ depending upon model. : You can turn the screen off while listening to music or display the music player in full-screen mode. : You can listen to music with the screen turned off.

	Description
④	You can change the position of the music player.
⑤	You can minimize the music player.
⑥	This feature closes the music player.
⑦	Lyrics are available for music files that provide them. In some music files, you can choose a lyric section and move the playback position. • The lyrics feature is only supported on some devices. • The lyrics may not be displayed in sync depending on the lyrics data in the music file.

- Reopen your music player by pressing the + − VOL buttons on your remote control.
- You may not be able to use the music player for some features.
- You can also run the music player as follows:
- Select ♫ in the Music app.
- Select ♫ while viewing photos in the Photo & Video app.

Audio Format

File Format	Item	Info
.mp3	Bit rate	32 kbps ~ 320 kbps
	Sample freq.	16 kHz ~ 48 kHz
	Support	MPEG-1, MPEG-2
	Channels	mono, stereo
.wav	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	PCM
	Channels	mono, stereo
.ogg	Bit rate	64 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	Vorbis
	Channels	mono, stereo
.wma	Bit rate	128 kbps ~ 320 kbps
	Sample freq.	8 kHz ~ 48 kHz
	Support	WMA
	Channels	up to 6 ch
.flac	Bit rate	-
	Sample freq.	8 kHz ~ 96 kHz
	Support	FLAC
	Channels	mono, stereo

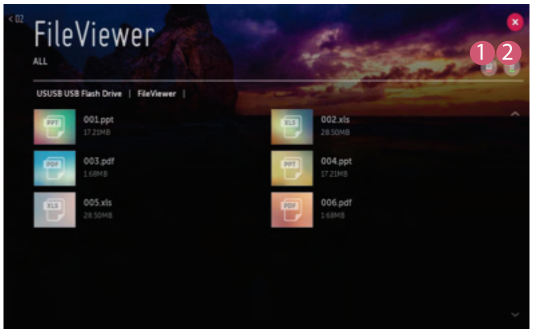
- The number of supported channels may vary depending upon the sample frequency.

File Viewer

Viewing Files

You can see document files stored on a connected device.

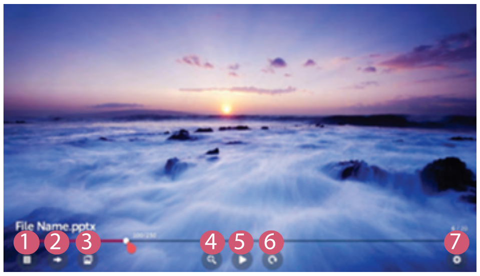
1 Press the ⌂ button on your remote control.
2 Launch the File Viewer application.
3 Select your desired storage device.
4 Select and view your desired document file.



	Description
①	Select your desired type of content and viewing method.
②	Select and delete your desired content. (You cannot delete files that are shared from other devices.)

- Certain content may not be displayed on the list if the number of all content exceeds 40,000.

Browsing File Viewer



	Description
①	Returns to the entire content list.
②	Moves to the page you specify.
③	Sets the slide show.
④	Enlarges or reduces the document.
⑤	Starts the slide show.
⑥	Rotates the document.
⑦	Sets up the options of File Viewer.

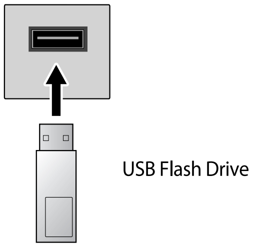
Supported File Formats

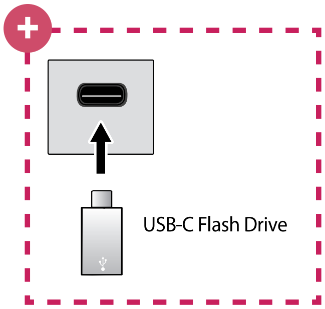
XLS, XLSX, DOC, DOCX, PPT, PPTX, TXT, PDF, HWP
Microsoft Office 97/2000/2002/2003/2007/2010/2013/2016 version
Adobe PDF 1.0/1.1/1.2/1.3/1.4 version
Hangul 2007 version

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

Connecting USB

Connect a USB storage device (USB HDD, USB Flash Drive) to the USB port on the projector to enjoy the content files stored on the USB storage device on your projector.





+

Models with USB-C support only.

- Please check whether USB 2.0 is supported before using USB-C storage devices.
- Certain functions may not work properly depending on USB-C to USB-A cable or gender used.

Tips for Using a USB storage device

- A USB storage device that has a built-in automatic recognition program or uses its own driver might not be recognizable.
- Some USB storage devices may not be supported or may not work properly.
- If you use a USB extension cable, the USB storage device may not be recognized or may not work properly.
- Please use only USB storage devices formatted with the FAT32 or NTFS file system provided by Windows OS.
- It is recommended that you use an external USB HDD with a rated voltage of 5 V or less and a rated current of 500 mA or less.
- It is recommended that you use a USB hub or hard disk drive with a power supply. (If the power supplied is not sufficient, the USB storage device may not be detected properly.)
- It is recommended that you use a USB flash drive of 32 GB or less or a USB HDD of 2 TB or less.
- If a USB HDD with power-saving function does not work, turn the hard drive off and on again to make it work properly. See the owner's manual for the USB HDD for more information.
- Data on a USB storage device may be damaged, so it is recommended that you back up any important files. Users are responsible for data management. The manufacturer bears no responsibility.
- Select the connected USB from INPUTS and select the EJECT button to disconnect the USB storage device.
  If you disconnect the USB storage device without selecting EJECT, an error may occur in your projector or storage device.
  You can open INPUTS by selecting 🔌 (INPUT) → All Inputs.
- For more information on other connection methods, go ⌂ → Device Connector.
- Select the connected USB from INPUTS and select the FORMAT button to format the USB storage device. After format, all the data of USB storage device will be deleted and formatted as NTFS or FAT32 file system.
- When connecting a USB storage device, a random file/folder can be created to provide Smart projector services such as the saving and retrieving of thumbnail images.

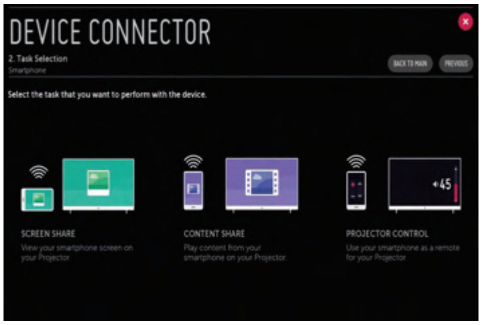
Share Smart Phone

Content Share with Smartphone

Content Share allows you to enjoy videos, music, and photos saved on your Smartphone that is connected to the same network.

Connecting to a smartphone with your projector

1. Press the 🏠 button on the remote control.
2. Launch theDevice Connector application.
3. Select the Smartphone.
4. Follow instructions inDevice Connector.



DEVICE CONNECTOR

2. Task Selection
Smartphone

Select the task that you want to perform with the device.

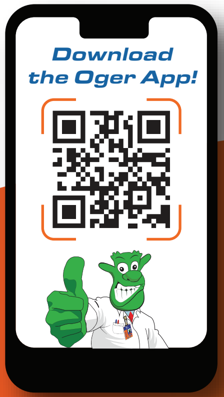
SCREEN SHARE
View your smartphone screen on your Projector

CONTENT SHARE
Play content from your smartphone on your Projector.

PROJECTOR CONTROL
Use your smartphone as a remote for your Projector

Matters that require special attention during Content Share

- Check your network settings if the Content Share option does not work properly.
- May not work properly on a wireless network. It is recommended that you connect to a wired network.
- May not work properly depending upon the network environment.
- If multiple display devices are connected to one device, the content may not be played properly depending upon server performance.
- To watch the 1080p video through Content Share function, a router that uses 5 GHz frequency is required. If a 2.4 GHz router is used, the video may not play properly.
- Captions are only supported on some connected devices.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the projector, the supported file format may differ depending upon the connected device 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 connected device may not be displayed correctly.
- Depending upon the encoding, some streams may not play in Content Sharing mode.



View Smart Phone

To see the Mobile Device's screen on the projector

1. Press the ⌂ button on your remote control.
2. Launch the Screen Share application.
3. Enable Miracast mode on the mobile device.
4. Your projector will be displayed in the list of available devices in the menu.
5. Select your projector to start connecting.
6. A message saying Connecting... will appear to start the connection.
7. When the connection is established, the projector will display the screen of the connected device.

- Always update your device to be connected to your projector to the latest OS version for a reliable connection.
- A non-LGE device might not connect even when it is detected.
- Connect the device to a 5 GHz router because the performance may be affected by your wireless environment.
- The response rate may vary, depending upon the user’s environment.
- It differs among devices. For more information on the device you want to connect to, refer to its user guide.
- LISTEN MODE may affect the performance of your wireless connection when connected to an AP. If there are any issues related to wireless performance, it is recommended to turn off LISTEN MODE.
- If connection fails repeatedly, turn off the projector and the device you want to connect to, then turn them back on and try again.

Share PC

What Is Content Share?

Content Share allows you to enjoy videos, music and photos saved on your PC.

Play the content with sharing software on the PC

If the computer operating system is Windows 7, Windows 8.1, or Windows 10, you can play music, video, or photos on your projector without installing an additional program.

1 Configure the projector and PC on the same network. Also configure the network on the PC installed with Windows 7, Windows 8.1, or Windows 10.

2 Right-click the desired music, video, or photo file, and select the model using the Play To function provided in Windows 7, Windows 8.1, or Windows 10 to play what is selected.
To play on other devices like your mobile phone, refer to the relevant user guide.

- Even when multiple projectors or devices are connected, the selected file is played through only one device. The playback rate may vary depending on the network connection.

Use the SmartShare PC Software to play the content saved on the PC

You can use SmartShare PC Software to connect the music/videos/photos saved on the PC to your home network and play them on your projector.

1 Configure the projector and PC installed with SmartShare on the same network.
  - The SmartShare service is only available when the projector and server PC are connected to a single router.

2 Download and install SmartShare PC Software from the LG website. Before installation, exit all programs running on the PC, such as firewall or an anti-virus software.

3 Run SmartShare PC Software and configure the share settings.

4 Shared videos and photos are played from the Photo & Video app on the projector. Shared music files are played from the Music app on the projector.

- The server should be running in order to watch the shared file on your projector.
- You can check the website information from 🏠 → Device Connector → PC → CONTENT SHARE.
- For information on how to use the SmartShare PC Software, refer to the software's help section.

Matters that require special attention during Content Share

- Check your network settings if the Content Share option does not work properly.
- May not work properly on a wireless network. It is recommended that you connect to a wired network.
- If multiple display devices are connected to one device, the content may not be played properly depending on server performance.
- May not work properly depending on the network environment.
- To watch the 1080p video through Content Share function, a router that uses 5 GHz frequency is required. If a 2.4 GHz router is used, the video may not play properly.
- The Content Share 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 the manufacturer.
- Captions are only supported on some connected devices.
- SmartShare PC Software is recommended for reading captions.
- When a subtitle file is added later, disable the shared folder and then enable it again.
- The DRM files in the connected device will not play.
- Even for the file format supported by the projector, the supported file format may differ depending on the connected device 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 connected device may not be displayed correctly.
- Depending upon the encoding, some streams may not play in Content Sharing mode.

View PC

To see the PC screen on the projector

Connect wireless

1 Press the ⌂ button on the remote control.

2 You can launch the Screen Share application.

3 Add a wireless connection device on your PC.
If the operating system of your PC is Windows 7 or Windows 8.1, run Intel® WiDi.

4 Your projector will be displayed in the list of available devices.

5 Select your projector and request connection.

6 After the connection is established, the projector will display the screen of the connected device.

- Always update your device to be connected to your projector to the latest OS version for a reliable connection.
- It is recommended that you use this function at close range.
- Though it can be connected without a wireless router, connecting your device to a 5 GHz router is recommended because the performance can be affected by the surrounding wireless environment.
- It supports the connection over the Intel® WiDi 3.5 version.
- The response rate may vary, depending upon the user's environment.
- It's different from Windows version. For more information on the device you want to connect to, refer to its user guide.
- If you turn on LISTEN MODE, it may affect the performance of your wireless connection when connected to an AP. If there are any issues related to wireless performance, turn off LISTEN MODE.
- For more information, refer to the Screen Share app.
- If connection fails repeatedly, turn off the projector and the device you want to connect to, then turn them back on and try again.

Connect wired

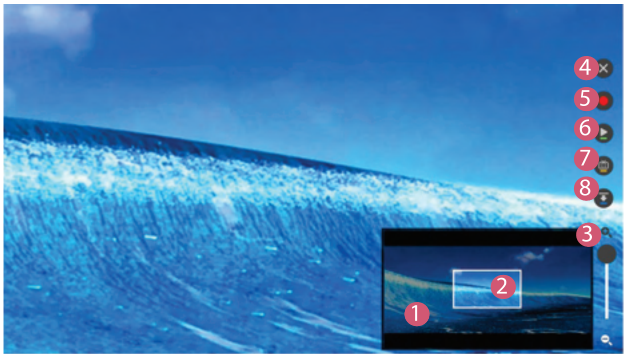
Connect the PC with projector by HDMI cable.

BENEFITS OF SMART PROJECTOR

Zooming in the Projector Display

By zooming in the projector screen, you can view images in a larger size than the originals.

While watching a broadcast or playing a video, press the LIVE ZOOM button on the remote control or the Ⓘ Wheel (OK) button on Magic Remote to select START LIVE ZOOM displayed in the bottom right corner of the screen.



	Description
①	The original screen before enlargement is displayed on the subscreen.
②	This indicates the enlarged area that is displayed on the main screen.
③	You can zoom in and out on the main screen using the magnification bar.
④	Press this button to end the live zoom function. • This feature is available on certain models only.

	Description
⑤	If watching video in a USB storage device You can start recording by zooming in the video on your USB storage device. For more information, refer to the Zoom Recording. • This feature is available on certain models only. • This feature can only be used with the Magic Remote.
⑥	You can pause or resume your current screen. If you execute on resume while watching a broadcast, you will see the current broadcast screen.
⑦	You can capture your current screen. You can view captured images in the Photo & Video app.
⑧	You can hide the sub screen.

- To exit the feature and return to the original screen, press LIVE ZOOM or **EXIT**. You can also exit this feature with the BACK button on your remote control.
- If you change the channel or run another app on an enlarged screen, the feature closes.

Moving the Position of an Enlarged Screen

- Method 1. On the main screen, move the pointer on the Magic Remote to your desired position and press Wheel (OK) button.
- Method 2. Using the pointer on your Magic Remote, drag the enlarged area on the subscreen into your desired position.
- Method 3. On the subscreen, select the area you want to enlarge using the Magic Remote.
- You can also move the screen using the △/▽/◁/▷ buttons on your remote control.

Zoom Recording

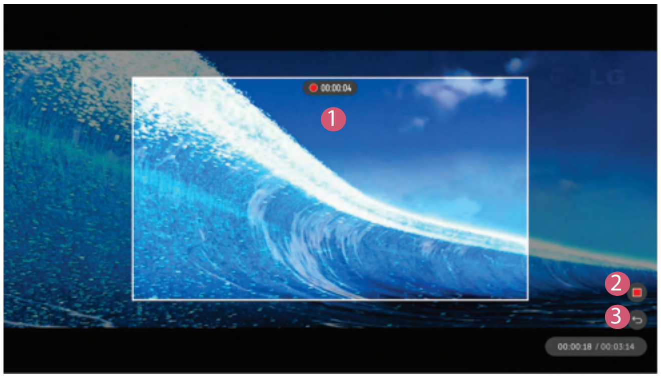
Running Zoom Recording

By zooming in the video content in your USB storage device, you can run Zoom Recording.

- This feature is available on certain models only.

1 Press the LIVE ZOOM button on your remote control while watching a video in Photo & Video. Or, Press the ◎ Wheel (OK) button on your magic remote and select START LIVE ZOOM at the bottom right of the screen.

2 If you press ● on the right side of the screen, Zoom Recording starts.



	Description
①	It shows the zone where Zoom Recording is running. You can adjust the magnification by scrolling with the ◍ Wheel (OK) button on the Magic Remote. • To move the recording zone, move the Magic Remote pointer to a desired position of the screen and press the ◍ Wheel (OK) button. • Or, drag it using the pointer of Magic Remote and move it to the desired position.
②	Stop and save Zoom Recording.
③	Without saving the content of Zoom Recording, return to the previous Live Zoom status.

- This feature can only be used with the Magic Remote.
- You can use this function only for video content stored on your USB storage device.
- Zoom Recording files are stored in the same location where the original video content is stored.
- If original video content is deleted, Zoom Recording files cannot be played.
- Zoom Recording files can be played only on an LG projector that supports the function.

Using My Starter

My Starter lets you view information through your projector, such as the current time, weather, and schedules you have added to your smart device.

- By setting up My Starter on your projector or in the LG TV Plus app, you can make My Starter run automatically at a specified time with your projector being turned on.
- Some features are available only after you install the LG TV Plus app on your smart device.

Setting Up on Your projector

1. Press the ⚙ (Q. Settings) button on your remote control.
2. Select ⋮ → General → Timers → Timer Power On → Set My Starter and set the option to On.

Setting Up in the LG TV Plus App

1. Download the LG TV Plus app from the app store of your smart device.
2. Connect your projector and smart device to the same network.
3. Run the LG TV Plus app installed on your smart device.
4. Select My Starter in the LG TV Plus app and set the options.

Viewing a Schedule with My Starter

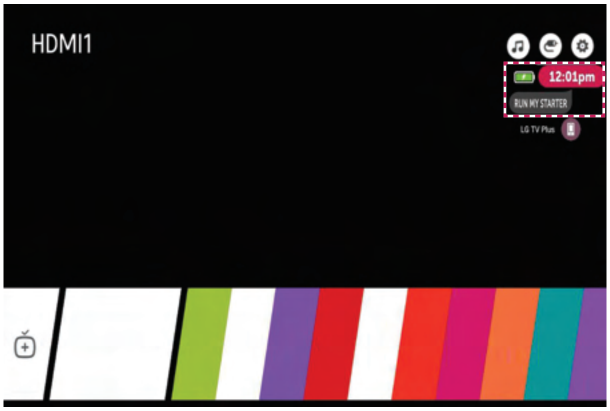
Set up schedule sharing with your projector in the LG TV Plus app following the instructions, and then you can view the schedules added to your smart devices on your projector.

- The On Screen Display (OSD) of the projector may differ depending on the model.

1 Press the ⌂ button.

2 RUN MY STARTER by selecting the time displayed in the upper right corner of the screen.

  - If there is no time displayed, set up the time for your projector.



- If multiple smart devices have been set up to share schedules with your projector, the schedule on the last smart device set up for schedule sharing is provided.
- You can use schedule sharing without configuring Set My Starter.

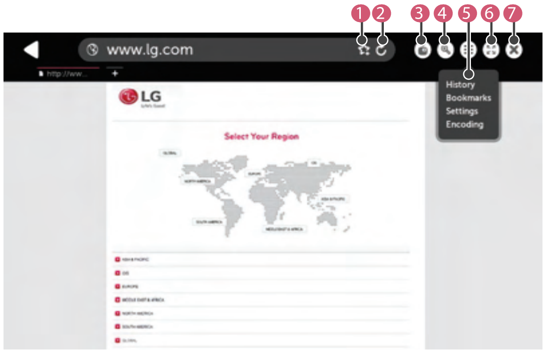
Enjoying Internet

Using the Web Browser

You can enter the website when you input the web address on the URL bar. If you input the search word, it will find the information about search word base on the search engine.

1 Press the ⌂ button on the remote control.

2 Launch the Web Browser application.



	Description
①	You can add the current page to the Home screen, or add or delete the current page in Bookmarks. (A page added to the home screen can only be deleted on the home screen. In this case, it is not deleted from Bookmarks.)
②	Reloads the current page.
③	You can turn on/off Mini TV.

	Description
④	Zooms in or out of the screen.
⑤	History : You can open or delete the history list. Bookmarks: You can open or delete the bookmark list. Settings : You can configure simple settings for the browser. Encoding: You can change the language when the content is not properly displayed on the web page.
⑥	You can use the browser in full screen mode. To go back to the original screen, use the Remote Control to move the pointer to the top of the screen. Exit Full Screen will display.
⑦	Exit the Web Browser .

- The Web Browser supports only HTML5 media, it does not support Flash Plug-in.
- The Web Browser does not support plug-in installation.
- On the Web Browser , it may not be possible to play media files in formats other than JPEG/PNG/GIF.
- The Web Browser may be closed if there is insufficient memory space.
- On the Web Browser , only fonts embedded in the projector are used. Therefore, text may be displayed in different fonts than the ones on the PC.
- The Web Browser does not support file and font downloads.
- Since the Web Browser is a projector browser, it may function differently than PC browsers.
- Since the Web Browser is a projector browser, some of the content may not play properly.
- Caution is required for children accessing inappropriate content since this product can be connected to the Internet.
- Access to some of the apps, including the Web Browser, may be restricted in order to block inappropriate online content.
- Configure the settings in ⚙ (Q. Settings) → ⋮ → Safety → Application Locks.

Setting the Web Browser

Press ☰ at the top of the screen and select the Settings .

- On Startup
  You can set the startup page of the browser to Open the New Tab page / Continue where I left off / Home page.
- Search Engines
  You can select the default search engine.
- Recommended Sites
  You can change the settings so that Recommended Sites are displayed.
  The Recommended Sites and Most Visited Sites are displayed on a new tab.
  The Recommended Sites may not be available in your country.
  To hide the Recommended Sites, choose Off in Settings .
- Always Show Bookmarks Bar
  You can change the settings so that the Bookmarks bar is always displayed.
- Private Browsing
  You can configure the settings not to leave records after searching.
- Site Filtering
  - Approved Sites : You can configure the settings to open the previously registered web pages only.
  - Blocked Sites : You can configure the settings to block specific websites.

  * To use the Site Filtering function, you should enter the projector password.
  The initial password is set as “0000”.

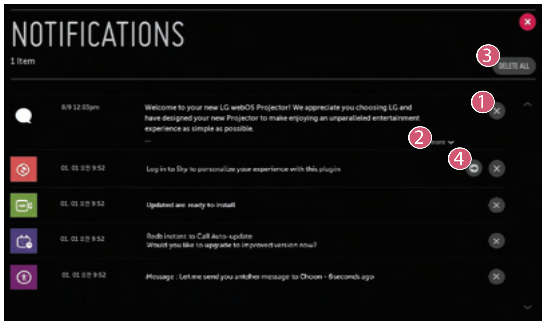
Notifications

Using Notifications

The Notifications transfers real-time notifications from various apps and LG services. It shows the status of apps that are currently running and allows you to view, delete, and run all notifications in one place.

1 Press the 🏠 button on the remote control.

2 Launch the Notifications application.



NOTIFICATIONS

1 Item

Welcome to your new LG webOS Projector! We appreciate you choosing LG and have designed your new Projector to make enjoying an unparalleled entertainment experience as simple as possible.

Log in to Sky to personalize your experience with this plugin

Updated are ready to install

Redo instant to Call Auto-update
Would you like to upgrade to improved version now?

Message : Let me send you another message to Choon - 6seconds ago

	Description
①	You can delete notifications.
②	For notifications with long content, press more to open them in full view.
③	You can delete all notifications.
④	You can launch the APP or move to URL.

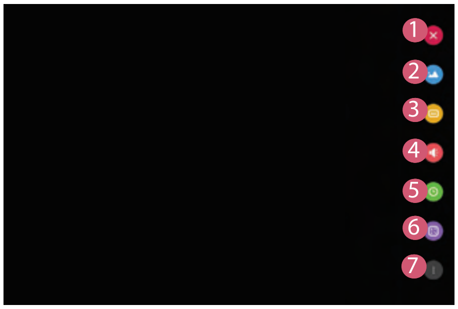
TOUR LIST OF SETTINGS

The options may differ depending on the model.

Quick Settings

To use Setting function quickly

Press the ⚙ (Q. Settings) button on the remote control.
Displays a set of light-weight controls quickly and simply such as Picture Mode, Aspect Ratio, Sound Out and so on.



	Description
①	Closes the Quick settings.
②	You can set the Picture Mode.
③	You can set the Aspect Ratio.
④	You can choose the Sound Out.
⑤	You can set the Sleep Timer.
⑥	You can set the PJT Mode.
⑦	You can set more options.

Picture Settings

Smart Picture Mode

⚙ (Q. Settings) → ⋮ → Picture → Smart Picture Mode

When this is enabled, the projector will automatically adjust to the optimal picture settings based on data it receives on the genre of the program being played. Set the option to On to enable this mode.

- If you enable this feature, you cannot set Picture Mode manually.
- Only available with digital broadcasts.
- Channels connected to HDMI do not support Smart Picture Mode.
- This feature is available in certain countries only.

Picture Mode

⚙ (Q. Settings) → ⋮ → Picture → Picture Mode Settings → Picture Mode

Select the picture mode that is best suited to your viewing environment, preferences or video type.

The options may differ depending on the model.

Depending upon the input signal, the available picture modes may be different.

When watching online service content, the Picture Mode may be changed to match the content being shown.

- Vivid
  Sharpens the image by increasing the contrast, brightness, and sharpness.
- Standard
  Displays the picture with normal contrast, brightness, and sharpness levels.
- Cinema
  Optimizes the screen for movies.
- Sports /Soccer
  Optimizes the screen for sports games. Sharpens the image of rapid movements such as kicking or throwing a ball.
  - The name of the sport may differ depending on region.
- Game
  Optimizes the screen for gameplay.
- HDR Effect
  This feature lets you enjoy a more dynamic, clearer image by correcting the light and dark areas of the display. This feature provides a realistic image, even when the source image's gradation level is high.
  - If you set Picture Mode to HDR Effect , you will not be able to use some of Picture Mode Settings .
  - This feature is available on certain models only.
- Expert /Expert (Bright Room) /Expert (Dark Room)
  Allows an expert, or anyone who loves picture quality, to tune to the best picture quality.
  - This feature is available on certain models only.

Picture Mode Settings

⚙ (Q. Settings) → ⋮ → Picture → Picture Mode Settings

This feature allows you to adjust the selected picture mode in detail.

- Contrast
  Adjusts the contrast of the bright and dark areas of the picture. The closer to 100, the higher the contrast.
- Brightness
  Adjusts the overall screen brightness. The closer to 100, the brighter the screen.
- Sharpness
  Adjusts the sharpness of the image. The closer to 50, the sharper and clearer the image.
- V Sharpness
  Adjusts the sharpness of the contrast edge in the vertical direction.
- H Sharpness
  Adjusts the sharpness of the contrast edge in the horizontal direction.
- Color
  Tones down or up the colors displayed on the screen. The closer to 100, the deeper the color.
- Tint
  Adjusts the color balance between red and green displayed on the screen. The closer to Red 50, the more red the color will be. The closer to Green 50, the more green the color will be.
- Color Temperature
  Adjusts the color temperature cool/medium/warm/natural.
  - The settings you specify only applies to the currently selected input mode. To apply your current picture settings to all input modes, select Apply to All Inputs.
  - Depending upon the input signal or the selected picture mode, the available options may differ.
- Apply to All Inputs
  Save the current customized setting values to currently selected picture mode for all inputs.
- Reset
  This option will reset the picture settings.
  - You can reset the picture modes separately. Select the picture mode you wish to reset and enable it.

Advanced Controls/Expert Controls

Adjust screen settings for individual picture modes.
⚙ (Q. Settings) → ⋮ → Picture → Picture Mode Settings → Advanced Controls

- Dynamic Contrast
  Corrects the difference between the bright and dark areas of the screen for optimal results depending on the brightness of the picture.
- Dynamic Color
  Adjusts the Color and saturation of the picture to make the image more colorful and lively.
- Preferred Color
  Adjusts the colors of skin, grass and sky to your personal preferences.
- Color Gamut
  Selects the range of Colors to display.
- Super Resolution
  Adjusts the resolution to make dim and blurred images clearer.
- Gamma
  Adjusts the medium brightness of the picture.

⚙ (Q. Settings) → ⋮ → Picture → Picture Mode Settings → Expert Controls

If you set the picture mode to Expert, you can set the following functions.

- Dynamic Contrast
  Corrects the difference between the bright and dark areas of the screen for optimal results depending on the brightness of the picture.
- Super Resolution
  Adjusts the resolution to make dim and blurred images clearer.
- Color Gamut
  Selects the range of Colors to display.
- Edge Enhancer
  Shows clearer and distinctive yet natural edges of the video.
- Color Filter
  Filters a specific Color spectrum in RGB Colors to fine-tune Color saturation and hue accurately.
- Gamma
  Adjusts the medium brightness of the picture.
- White Balance
  Adjusts the overall color temperature of the screen as desired.
- Color Management System
  This is a function used by experts when they adjust Colors using a test pattern of six colors (Red/Green/Blue/Cyan/Magenta/Yellow) without affecting other color areas. For normal images, adjustments may not result in noticeable color changes.
  - Depending upon the input signal or the selected picture mode, the available options may differ.

Picture Options

⚙ (Q. Settings) → ⋮ → Picture → Picture Mode Settings → Picture Options

Adjust detailed settings to further optimize the picture.

- Noise Reduction
  Removes small dots that stand out so as to make the image clean.
- MPEG Noise Reduction
  Reduces the noise produced during the creation of digital video signals.
- Black Level
  Compensates the screen brightness and contrast by adjusting the darkness of the screen.
- Real Cinema
  Provides a cinema-like experience.
- TruMotion
  This feature is available on certain models only.
  Optimizes the image quality of fast-moving pictures.
  - Off : Turns off the TruMotion.
  - Smooth: Softens fast-moving pictures.
  - Clear : Makes fast-moving pictures clearer.
  - Clear Plus : Makes fast-moving pictures clearer using the backlight control.
  - User : Sets De-Judder/De-Blur manually.
    - De-Judder: Adjusts juddering on the screen.
    - De-Blur : Reduces the blurring effects of motion.
- The advanced settings can be changed only in User mode.
- Depending upon the input signal or the selected picture mode, the available options may differ.
- The configurable items differ depending upon model.

Aspect Ratio

⚙ (Q. Settings) → ⋮ → Picture → Aspect Ratio Settings → Aspect Ratio

The options may differ depending on the model.

Depending upon the input signal, the available screen sizes may be different.

- 16:9
  Displays an aspect ratio of 16:9.
- Original
  Changes the aspect ratio to 4:3 or 16:9 depending upon the input video signal.
- 4:3
  Displays an aspect ratio of 4:3.
- Vertical Zoom
  You can adjust the vertical dimension of the screen and align the screen vertically by using Adjust Zoom Ratio and Adjust Screen Position.
- All-Direction Zoom
  You can adjust the horizontal/vertical/diagonal dimensions of the screen and align the screen horizontally/vertically by using Adjust Zoom Ratio and Adjust Screen Position.

Just Scan

⚙ (Q. Settings) → ⋮ → Picture → Aspect Ratio Settings → Just Scan

If you turn this feature On, you can view the content in the aspect ratio that is in the broadcast signal or content source. If the edge of the screen is not clean, please turn it Off.

If set to Auto, the feature switches between On or Off status depending on the information contained in the video signal.

- The items that can be selected may vary depending on the current input.

Energy Saving

⚙ (Q. Settings) → ⋮ → Picture → Energy Saving

Reduces power consumption by adjusting peak screen brightness.

- Minimum/Medium/Maximum
  Applies the pre-set Energy Saving mode.
- If the screen shows a low battery message, the Energy Saving mode will be changed to Maximum and will be disabled.
  - This feature is available on certain models only.

Picture Test

⚙ (Q. Settings) → ⋮ → Picture → Picture Test

First of all, start the Picture Test to see whether the video signal output is normal, and then select whether there is an error.

If there are no problems in the test picture, check the connected external device or broadcast signal.

Focus Test

⚙ (Q. Settings) → ⋮ → Picture → Focus Test

Checks the focus of the projector image.

To focus the image, use the Focus Test function to slowly adjust the focus ring to the left or right while viewing the + mark on the screen. Optimal focus is reached when the left and right sides of the screen appear balanced. Make sure the product does not move when adjusting the focus.

- This feature is available on certain models only.

Sound Settings

Smart Sound Mode

⚙ (Q. Settings) → ⋮ → Sound → Smart Sound Mode

Automatically optimize sound based on content type.
This setting is only available for Internal Projector Speaker.
In the list, click On to enable this mode.

- If this feature is turned on, you can't adjust the Sound Mode manually.
- This feature is available on certain models only.

Sound Mode

⚙ (Q. Settings) → ⋮ → Sound → Sound Mode Settings → Sound Mode

- Standard
  Optimizes the sound for all types of content.
- Cinema
  Optimizes the sound for cinemas.
- Clear Voice III
  Boosts voice clarity.
- Sports / Soccer
  Optimizes the sound for sports.
  - The name of the sport may differ depending on region.
- Music
  Optimizes the sound for music.
- Game
  Optimizes the sound for gameplay.

Sound Mode Settings

⚙ (Q. Settings) → ⋮ → Sound → Sound Mode Settings

You can only use Virtual Surround Plus / ULTRA Surround, Equalizer, and Reset if Sound Mode is set to Standard.

The options may differ depending on the model.

- Sound Mode
  You can select the most suitable sound mode for each genre.
- Balance
  You can adjust the volume of the left and right speakers.
- Virtual Surround Plus / ULTRA Surround
  Enjoy an immersive soundscape with the virtual multi-channel surround sound effect.
- Equalizer
  You can set the desired sound by adjusting the equalizer directly.
  (100 Hz/300 Hz/1 kHz/3 kHz/10 kHz)
- Reset
  You can reset the sound effect settings.

Sound Out

The options may differ depending on the model.

Playing audio through the projector's internal speakers
⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Internal Projector Speaker
Audio is played through the projector’s internal speakers.

Playing audio through an external audio device connected to the digital optical port or the HDMI(ARC) port
Projector audio is played through an external audio device connected to the digital optical port or theHDMI(ARC) port. Enable SIMPLINK to play audio through HDMI(ARC) .

- If you select Off while SIMPLINK is enabled, the audio output setting is restored to the default setting in order to ensure uninterrupted audio output.

- For PF50K model only:
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Audio Out (HDMI ARC)
- For HU80K model only:
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Audio Out (Optical/HDMI ARC)

Configuring digital sound output settings

- For PF50K model only:
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Audio Out (HDMI ARC) → Digital Sound Out
- For HU80K model only:
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Audio Out (Optical/HDMI ARC) → Digital Sound Out
  - These settings are available only when an Audio Out (Optical/HDMI ARC) / Internal Projector Speaker + Audio Out (Optical) is selected.

You can configure the Digital Sound Out settings.

	Sound Input	Digital Sound Output
Auto	MPEG	PCM
	Dolby Digital	Dolby Digital
	Dolby Digital Plus	(Optical) Dolby Digital[1] (HDMI ARC) Dolby Digital Plus
	HE-AAC	Dolby Digital
	DTS	DTS / PCM
	DTS Express	DTS / PCM
	DTS-HD MA	PCM / DTS
PCM	All	PCM

1) Only available for models with an optical digital port.

Connecting and Using an Audio Device Supporting LG Sound Sync (Optical)

⚙ (Q. Settings) → ⋮ → Sound → Sound Out → LG Sound Sync (Optical)

You can connect an audio device that supports LG Sound Sync (Optical) to the optical digital audio output port to enjoy your projector's sound in richer quality and greater convenience.

- Only available for models with an optical digital port.
- You can use the projector remote control to adjust the volume of the connected device.

Connecting and Using an Audio Device Wirelessly

⚙ (Q. Settings) → ⋮ → Sound → Sound Out → LG Sound Sync / Bluetooth

You can connect wirelessly a Bluetooth audio device or a Bluetooth headset to enjoy your projector's sound in richer quality and greater convenience.

- If you have recently connected device that the sound bar supports LG Sound Sync, this feature automatically tries connecting to that device.
- In some devices, this feature automatically tries connecting to the recently connected device when the projector is turned on.
- We recommend that you connect an LG audio device that supports LG Sound Sync, using LG TV mode or LG Sound Sync mode on device.
- Press DEVICE SELECTION to view the connected devices or the devices that can be connected to connect any one of them.
- You can use the projector remote control to adjust the volume of the connected device.
- If the device fails to connect, check the power of the device to connect to and check if the audio device is working properly.
- Depending on the type of the Bluetooth device, the device may not connect correctly or an abnormal behavior may occur such as unsynchronized video and audio.
- Sound may stutter or sound quality may be reduced if:
  - the Bluetooth device is too far from the projector;
  - there are obstacles between the Bluetooth device and the projector; or
  - used together with radio equipment such as a microwave oven or wireless LAN.
- Using Bluetooth speakers that support Dual mode/Double mode/2-Channel mode together with the Magic Remote may limit the speakers' usability.

Using Audio Out (Line Out)/Wired Headphones

⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Audio Out (Line Out) /Wired Headphones

Select Wired Headphones or Audio Out (Line Out) to optimize audio output according to the device connected.

- If you connect the wired headphones while the projector is powered on, it automatically detects the wired headphones and redirects audio through them.

Playing audio through the projector's internal speakers and external audio device simultaneously

Audio can be played through multiple devices simultaneously.

- Using Internal Projector Speaker + Audio Out (Optical)
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Internal Projector Speaker + Audio Out (Optical)
  - Audio is played through the projector's built-in speakers and the audio device connected to the digital optical audio output port simultaneously.
  - Only available for models with an optical digital port.
- Using Internal Projector Speaker + Wired Headphones
  ⚙ (Q. Settings) → ⋮ → Sound → Sound Out → Internal Projector Speaker + Wired Headphones
  - Audio is played through the projector's internal speakers and the Wired Headphones simultaneously.

Auto Volume

⚙ (Q. Settings) → ⋮ → Sound → Auto Volume

Click On to adjust the volume automatically for different broadcasting companies so you can always listen to channels at the desired volume, even after switching the channels.

This feature is available on certain models only.

AV Sync Adjustment

⚙ (Q. Settings) → ⋮ → Sound → AV Sync Adjustment

Adjusts the synchronization of the sound from the speaker that is working.

The closer to the minus sign (-), the faster the audio output time. The closer to the plus sign (+), the longer the audio output speed compared to the default.

(However, if Sound Out is set to LG Sound Sync / Bluetooth, the audio output speed can only be set faster. In this case, the closer to the plus sign (+), the faster the audio output speed compared to the default.)

If you select the Bypass, Outputs the broadcast signals or the sound from external devices without any audio delay. The audio may be output before the video because of the time the projector takes to process the video input.

Sound Test

⚙ (Q. Settings) → ⋮ → Sound → Sound Test

Start the Sound Test to check that the sound signal output is normal, and then select whether there is an error.

If there are no problems in the test, check the connected external device or broadcast signal.

- Sound test is possible by Internal projector Speaker only.

Channels Settings

Auto Tuning

⚙ (Q. Settings) → ⋮ → Channels → Channel Tuning → Auto Tuning

This function automatically searches and remembers channels that are available for viewing.

- If the antenna or cable is not connected properly, channels are not added.
- Auto Tuning finds and adds only channels being broadcast.
- A password box will appear in Safety mode.

Manual Tuning

⚙ (Q. Settings) → ⋮ → Channels → Channel Tuning → Manual Tuning

You can manually tune and save channels.

You can check the signal strength of digital broadcasting.

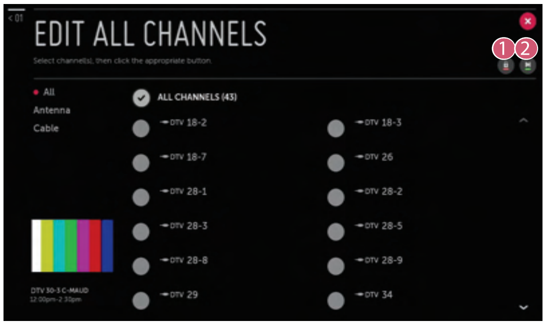
Channel Manager

You can edit the selected channels from all the stored channels or add/delete them to/from the favorite channels.

Edit All Channels List

⚙ (Q. Settings) → ⋮ → Channels → Channel Manager → Edit All Channels

You can lock or unlock the selected channels from all the stored channels, or you can set them to be skipped when switching channels.



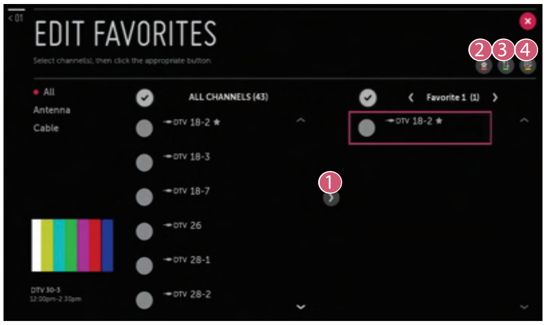
	Description
①	Lock the selected channels or unlock the locked channels.
②	Set the selected channels to be skipped when switching channels, or disable the skipping option of the channels previously set to be skipped.

- Available features may vary depending on the broadcast signal.

Edit Favorite Channels List

⚙ (Q. Settings) → ⋮ → Channels → Channel Manager → Edit Favorites

You can add/delete desired channels to/from the favorite channels, change their positions, etc.



	Description
①	Select the desired channels from the all channels list and press the button to add them to the favorite channels list.
②	Delete the selected channels from the favorite channels list.
③	Select two channels from the favorite channels list, then press the button to swap their positions.
④	Change the name of the favorite channels list.

- If you have set up the Internet channels, you can also lock them, set them to be skipped, or add them to the favorite channels list. (This feature is available in certain countries only.)

Channel Advisor

⚙ (Q. Settings) → ⋮ → Channels → Channel Advisor

If you set Channel Advisor to On, you can get channel or program recommendations from Live TV based on your viewing history.

Multi Audio

⚙ (Q. Settings) → ⋮ → Channels → Multi Audio

Sets the options related to the audio.

- Available settings may differ by the program.

Network

Projector Name

⚙ (Q. Settings) → ⋮ → Network → Projector Name

You can use the screen keyboard to set the name for the smart projector to be used on the network.

- Up to 30 characters can be entered using the English alphabet.

Wired Connection (Ethernet)

⚙ (Q. Settings) → ⋮ → Network → Wired Connection (Ethernet)

The projector will be connected automatically to the network if a cable connection is established.

To change network connection settings, select Edit in Network Settings.

Wi-Fi Connection

⚙ (Q. Settings) → ⋮ → Network → Wi-Fi Connection

If you have set up the projector for a wireless network, you can check and connect to the available wireless Internet networks.

- Add a Hidden Wireless Network
  If you input the name of network directly, you can add a wireless network.
- Connect via WPS PBC
  Connects easily when the button of a wireless AP supporting PBC is pressed.
- Connect via WPS PIN
  Connects easily when the PIN of the wireless AP that you wish to connect to is entered in to the AP configuration webpage.
- Advanced Wi-Fi Settings
  If you input the information of network directly, you can enter a wireless network.

Wi-Fi Direct

⚙ (Q. Settings) → ⋮ → Network → Wi-Fi Direct

Wi-Fi Direct is a function that allows your projector to connect with a Wi-Fi Direct-enabled device without a Wireless Router. You can open files stored on the devices that are connected via Wi-Fi Direct in the Photo & Video app and the Music app.

1 Enable Wi-Fi Direct on the device to which you want to connect.
2 A list of devices that can be connected to the projector is displayed.
3 Select a device to connect.
4 If the desired device accepts the request, Wi-Fi Direct will be connected.
5 From your desired connected device, select the video, music and photo files that you want to open on your projector via the LG TV Plus app or the content sharing feature.
6 You can open files stored on the devices that are connected via Wi-Fi Direct in the Photo & Video app and the Music app.

LG Connect Apps

⚙ (Q. Settings) → ⋮ → Network → LG Connect Apps

LG Connect Apps Provides apps, like photo sharing or mobile-device remotes, with the ability to access and control certain features of your projector.

Set the LG Connect Apps option to On. (When you stop using it, please change it back to Off.)

- If you want to disconnect all devices from your projector, click the REVOKE PAIRING on your screen.

General

Language

⚙ (Q. Settings) → ⋮ → General → Language

You can choose the menu language displayed on the screen and the audio language of the digital broadcast.

- Menu Language
  You can select one of the menu languages to be displayed on the screen.
- Audio Language
  You can choose the language you want when watching a digital broadcasting program, which includes multiple audio languages.
  For programs that do not support multiple languages, the default will be used.
  - Applies to digital broadcasting.
- Keyboard Languages
  Select the language to use the on-screen keyboard.

Location

⚙ (Q. Settings) → ⋮ → General → Location

You can change the location setting of your smart projector.

- Service Area Zip Code
  This function is used to set the broadcast location of the projector by entering your zip code.
- LG Services Country
  If you don't set the Set Automatically , you can select the country manually.
  - You must set the country manually when you are not connected to the network.
  - The configurable items differ depending upon the country.

Time & Date

⚙ (Q. Settings) → ⋮ → General → Time & Date

You can check or change the time while watching the projector.

- Set Automatically
  Automatically sets the time displayed on the projector screen to the time of the digital broadcast sent by the broadcasting company.
- Time/Date/Time Zone
  You can set the time and date manually if the automatically set current time is incorrect.

Sleep Timer

⚙ (Q. Settings) → ⋮ → General → Timers → Sleep Timer

Sets the projector to turn off at a specified time.

If you want to disable Sleep Timer, select Off.

Timer Power On/Timer Power Off

⚙ (Q. Settings) → ⋮ → General → Timers → Timer Power On/Timer Power Off

You can set the power on/off time for the projector.

Select Off if you are not going to set Timer Power On/Timer Power Off.

- To use Timer Power On/Timer Power Off, set the time correctly.

Auto Off

⚙ (Q. Settings) → ⋮ → General → Timers → Auto Off

If there is no input signal or button press, the projector automatically turns off after the preset time has elapsed.

Set My Starter

⚙ (Q. Settings) → ⋮ → General → Timers → Timer Power On → Set My Starter

If you set my starter on your projector or LG TV Plus App in mobile device; you can receive personalized information, such as the weather and schedules, through your projector. Set Set My Starter to On.

- The configurable items differ depending upon country.
- You can view weather information only when you are connected to a network.

Account Management

⚙ (Q. Settings) → ⋮ → General → Account Management

Manage your account information and settings.

Power Saving Mode

⚙ (Q. Settings) → ⋮ → General → Power Saving Mode

Set power options to reduce energy consumption.

- Auto Power Off
  Set the projector to turn off automatically when there has been no user input for a specified amount of time.
- HDD Power Saving Mode
  If you set the mode to On, the USB HDD connected to the projector will go into power-saving mode when it has been left unattended for an extended period of time.

Mobile Projector On

⚙ (Q. Settings) → ⋮ → General → Mobile Projector On

If Turn on via Wi-Fi or Turn on via Bluetooth is set to On, you can turn on your projector using an application that supports Mobile Projector On or see the screen of the application on your projector.

- The Turn on via Wi-Fi feature must be used in an app on a smart device that supports the feature.
- The Turn on via Bluetooth feature can only be used with certain LG Electronics smartphones.
- The projector should be connected to a network.
- The projector must be plugged in.
- The projector and the device to be used should be connected to the same network.
- To connect for the first time, make sure the device to be used is ready to connect.
- This feature is only available in certain countries.
- This feature is available on certain models only.

SIMPLINK (HDMI-CEC)

⚙ (Q. Settings) → ⋮ → General → SIMPLINK (HDMI-CEC)

You can conveniently control and use various multimedia devices connected through HDMI with the projector remote control.

Auto Keystone

⚙ (Q. Settings) → ⋮ → General → 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.

- On
  Automatically adjusts the keystone number.
- Off
  Manually adjusts the keystone number.

Keystone

⚙ (Q. Settings) → ⋮ → General → Keystone

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

PJT Mode

⚙ (Q. Settings) → ⋮ → General → PJT Mode

This function turns the projected image upside down or flips horizontal.

Auto Power

⚙ (Q. Settings) → ⋮ → General → Auto Power

Makes the projector turn on automatically when the power cord is connected to the projector. However, battery-equipped models will immediately turn on once the power switch is put to **ON**.

- For PF50K model only:
  - On: When the projector's power switch is switched **ON**, the projector turns on.
  - Off : When the projector's power switch is switched **ON**, the projector goes into standby mode.
- For HU80K model only:
  - On: When the power code is connected to the projector, it turns on automatically.
  - Off : When the power code is connected to the projector, it goes into standby mode.

High Altitude

⚙ (Q. Settings) → ⋮ → General → High Altitude

If the projector is used at an altitude higher than 1200 meters (3,937.0 feet), turn this on.

Otherwise, the projector may overheat or its protection function may be activated. If this happens, turn the projector off and then on again after waiting for several minutes.

- This feature is available on certain models only.

LG Wireless Keyboard

⚙ (Q. Settings) → ⋮ → General → LG Wireless Keyboard

This feature enables you to connect a LG wireless keyboard to your device.

Turn on the device, set it to pairing mode, and then click CONNECT on your projector screen.

- Supported keyboard
  - LG Rolly Keyboard
- If there is a LG wireless keyboard previously connected, it will be automatically reconnected to your projector once your projector turns on.
- To disconnect the existing connection, click DISCONNECT.
- This feature is available on certain models only.

Settings Help

⚙ (Q. Settings) → ⋮ → General → Settings Help

If you select the setting menus, you will see the hints of the settings. Turn on/off description box in settings.

Screen Saver

⚙ (Q. Settings) → ⋮ → General → Screen Saver

When the currently displayed app has not received any user input for an hour, it will be replaced by a Screen Saver.

Reset to Initial Settings

⚙ (Q. Settings) → ⋮ → General → Reset to Initial Settings

Return projector to its initial settings. This will revert all settings to their default values.

After reset, the projector will automatically turn off and on.

- If Safety is set to On, you should type the password to Reset to Initial Settings.
- Do not turn off the power during initialization.
- We recommended that you reset the projector to Reset to Initial Settings before you sell it or transfer it to a third party.

About This Projector

⚙ (Q. Settings) → ⋮ → General → About This Projector

You can check the information about Customer Services, (Software Update, projector Information, User Agreements, and so on.)

Self Diagnosis

⚙ (Q. Settings) → ⋮ → General → Self Diagnosis

Troubleshoots functional problems that can arise while using the product.

HDMI ULTRA HD Deep Color

⚙ (Q. Settings) → ⋮ → General → HDMI ULTRA HD Deep Color

If the device connected to the HDMI Input Port also supports ULTRA HD Deep Color, your picture may be clearer.

However, if the device doesn't support it, it may not work properly. In that case, change the Projector's ULTRA HD Deep Color setting to Off.

- Supported Display Resolution
  - On: Supports 4K@60 Hz (4:4:4, 4:2:2, and 4:2:0)
  - Off: Supports 4K@60 Hz (4:2:0)

Resolution	Frame rate (Hz)	Color Depth/Chroma Sampling		
		8 bit	10 bit	12 bit
3840 × 2160p 4096 × 2160p	50 59.94 60	YCbCr 4:2:0	YCbCr 4:2:0 1)	
		YCbCr 4:2:2 1)		
		YCbCr 4:4:4 1)	-	-
		RGB 4:4:4 1)	-	-
1) Supported when HDMI ULTRA HD Deep Color is set to On.				

- Settings are changeable only for the HDMI input currently being used.
- You can specify a different setting for each HDMI port.
- This feature is available on certain models only.

Switching Projector Modes

⚙ (Q. Settings) → ⋮ → General → Home/Store Mode

You can choose between Home Mode and Store Mode.

To use the projector at home, select Home Mode.

Store Mode only when the projector will be displayed in store. Select the Store mode for settings optimized for store display.

Safety Settings

- Set Safety to On.
- The initial password is set as "0000".
- The configurable items differ depending upon model.

TV Lock

⚙ (Q. Settings) → ⋮ → Safety → TV Program Locks → TV Lock

Locks the TV shows you do not want your children to watch. In addition, locks the TV shows of your choice based on ratings by using the parental control function (V-Chip).

- Children Age: TV-Y (Preschool children aged 2-6 years),TV-Y7 (Advise school children aged over 6.)
- Fantasy Violence : TV-Y7 (Advise school children; Suitable for children aged over 7 years. May contain fantasy violence.)
- General Age: TV-G (General Audience, All ages admitted.)TV-PG (Parental Guidance Suggested. Some material may not be suitable for preschool children.) TV-14 (Parents Strongly Cautioned. Some material may not be suitable for children under 14.)TV-MA (Adults Only. Not suitable for children under 17.)
- Sexually Suggestive Dialogue: (Recommended Language)TV-PG or TV-14
- Adult Language: (Violent Language)TV-PG , TV-14 or TV-MA
- Sexual Situations : (Sexually Explicit)TV-PG , TV-14 or TV-MA
- Violence: TV-PG , TV-14 or TV-MA

Movie Lock

⚙ (Q. Settings) → ⋮ → Safety → TV Program Locks → Movie Lock

Blocks films that are broadcast and contain inappropriate content, based on the Motion Picture Association of America (MPAA) rating.

- G (General Audiences): All ages admitted.
- PG (Parental Guidance Suggested): Some material may not be suitable for children.
- PG-13 (Parents 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.

Downloadable Rating

⚙ (Q. Settings) → ⋮ → Safety → TV Program Locks → Downloadable Rating

This function is only enabled when the TV receives the Region5 rated data. The name of the rating option may differ.

- Supported only in the digital mode.
- This feature is available in certain countries only.

TV Rating English

Select Canadian English Rating System.

- This feature is available in certain countries only.
- None: View all programs
- E: Exempt
- C: Children
- C8+: Children aged 8 or older
- G: Suitable for viewing by all ages
- PG: Parental guidance advised
- 14+: 14 or older
- 18+: Adult program

TV Rating French

Select Canadian French Rating System.

- This feature is available in certain countries only.
- None: View all programs
- E: Exempt
- G: General
- 8+: Not suitable for general audience and children
- 13+: Suitable for 13 years and over
- 16+: Suitable for 16 years and over
- 18+: Adults only

Channel Locks

⚙ (Q. Settings) → ⋮ → Safety → Channel Locks → Select the Channels to lock. → 🔒 → LOCK

You can lock the channels you do not want your children to watch. There will be no images or sound when locked channels are selected. To watch locked channels, enter the password.

Application Locks

⚙ (Q. Settings) → ⋮ → Safety → Application Locks → Select the Applications to lock.

You can lock or unlock the application.

- The lock function is not immediately available for the currently running application.

Input Locks

⚙ (Q. Settings) → ⋮ → Safety → Input Locks → Select the Inputs to lock.

You can lock or unlock the Input Locks.

Reset Password

⚙ (Q. Settings) → ⋮ → Safety → Reset Password

Set or change the password for the projector.

Accessibility

Pointer Options

⚙ (Q. Settings) → ⋮ → Accessibility → Pointer Options
You can set the pointer speed and shape you want while it is on the screen.

Menu Transparency

⚙ (Q. Settings) → ⋮ → Accessibility → Menu Transparency
You can set interface screen transparency for some of the features displayed on your projector screen.
If you set this option to Off, interface screens are displayed non-transparently.

Closed Caption

⚙ (Q. Settings) → ⋮ → Accessibility → Closed Caption
View closed captions when the TV station provides closed captioned programming.
Program closed captions work only on digital/analog broadcasts or external input.
Change Closed Caption to On and select caption setting.

- Analog Mode
  CC 1 - CC 4 (Closed Captioning)/TEXT 1 - TEXT 4
  Displays the audio portion of a TV program as text on the projector screen. CC1 is the most common mode in use.
  Field 1 data channels: two Captions (CC1, CC2), two Text (T1, T2).
  Field 2 data channels: two Captions (CC3, CC4), two Text (T3, T4).
- Digital Mode
  Service 1 ~ Service 6
  - This is only available for the digital broadcasting system.
- Digital Mode Options
  Set up the size and color of the closed captions on Digital Mode Options.
  Please select Set By Program or Custom.
  Select Custom to adjust minute options such as the closed captions' size and color.

Audio Guidance

⚙ (Q. Settings) → ⋮ → Accessibility → Audio Guidance

If Audio Guidance is set to On, audio guides will be provided in various situations, such as when you change channels, adjust the volume or change settings and input signals.

- Speed
  Adjust the speed of spoken guide.
- Volume
  Adjust the volume of spoken guide.
- Pitch
  Adjust the tone of spoken guide.
- This feature is available on certain languages only.
- This feature is available in certain countries only.
- The configurable items differ depending upon country.
- For visually impaired users.

Projector Power Sound

⚙ (Q. Settings) → ⋮ → Accessibility → Projector Power Sound

This feature lets you turn on/off the sound effects that you hear when your projector is switched on or off.

- This feature is available in certain countries only.
- Settings the Audio Guidance to On automatically switches the Projector Power Sound to On as well.

High Contrast

⚙ (Q. Settings) → ⋮ → Accessibility → High Contrast

When this feature is set to On, it adjusts the background of some of the menus on the screen and font colors to highlight the contrast between the light and dark areas.

- The effect will disappear temporarily when you configure the Picture Mode or Aspect Ratio settings.

TO UPDATE SOFTWARE

Uses software update to check and obtain the latest version.

⚙ (Q. Settings) → ⋮ → General → About This Projector

Menu	Description
CHECK FOR UPDATES	When checking for the latest update version, you can perform updates only if an update file of a later version is available. The projector automatically checks your software version but, if necessary, you can perform a manual check.
Allow Automatic Updates	If Allow Automatic Updates is selected, when an update is available, the update automatically starts without prompting a question. If Allow Automatic Updates is not selected, when an update is available, the update will start after prompting a question.

- The configurable items differ depending upon country.
- The latest version can be obtained via digital broadcast signals or internet connections.
- Changing the channel while downloading the software via digital broadcast signal interrupts the download process. Returning to the initial channel allows downloading to resume.
- If software is not updated, certain functions may not work properly.

TROUBLESHOOTING

If you experience any of the problems below while using the product, please check the following. There may be no problem with the product.
Information on customer service for product problems is available in ⚙ (Q. Settings) → ⋮ → General → About This Projector on the projector.

Abnormal Operation

I cannot see some channels.

- Adjust the position or direction of the antenna.
- Save the desired channels in ⚙ (Q. Settings) → ⋮ → Channels → Channel Tuning or Channel Manager.

The screen does not appear for some time after power-on.

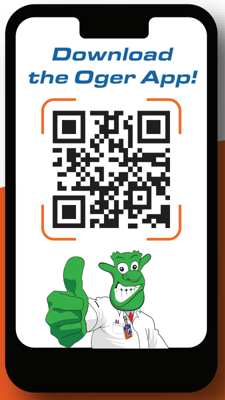
- This is because there is a noise-removal process to eliminate any possible noise that may appear during power-on. This does not mean the product is defective.

The pointer of Magic Remote does not appear on the screen.

- Your Magic Remote may have run out of batteries.
  Replace the batteries and register your Magic Remote again following the instructions shown in MAGIC REMOTE CONTROL of Owner's Manual.
- This only applies to models that support the Magic Remote.

I cannot turn on the Projector.

- Please make sure your projector power plug is correctly connected to the outlet.
- If you are using a multi-outlet, check if it is working properly.
- Try to power on using the button on your projector set.



It says there is no signal on the screen.

- Make sure that the coaxial cable or HDMI cable is correctly connected to your projector.
- Go to ⌂ → ⎆ to choose the connected input.
- Check if your external device, such as set-top box or Blu-ray player, is turned on.

It does not work when I connect a USB device.

- Check that the USB and USB cable versions are 2.0 or higher.

Screen Problems

First of all, perform a ⚙ (Q. Settings) → ⋮ → Picture → Picture Test to check for any abnormalities in the projector.
If you are using a set-top box, turn it off, and then turn it back on.
Make sure that the set-top box is correctly connected to your projector.

The screen overlaps or there are stripe patterns on all channels or on a specific channel.

- Turn the antenna toward the broadcasting station or connect the antenna correctly in accordance with the How to Connect an Antenna section.

The screen shakes after the momentary appearance of vertical/horizontal lines and net pattern.

- Stop using items such as wireless telephones, hairdryers, electrical drills etc. The problem is caused by high-frequency electronic devices such as another projector or strong electromagnetic sources.

A digitally broadcast program stops or its screen is broken.

- This happens when a signal is weak or reception is unstable. Adjust the antenna direction or check the cable connection.
- If the signal strength is too low in ⚙ (Q. Settings) → ⋮ → Channels → Channel Tuning → Manual Tuning, contact the broadcasting station or management office to have the signals checked.

I cannot see digital broadcasts even though I am using a cable television.

- Check your subscription information with your cable television service provider or ask for the signal to be checked. (Some products do not provide digital broadcasts.)

There is a difference in picture quality for each channel.

- XX-0 channels are analog channels. It is recommended for watching digital channels such as XX-1.
- Run Picture Test first. If it is normal, there may be a problem with the broadcast signal.

I see vertical lines in all four directions on the screen, or colors are blurred when I try to connect to HDMI.

- ⚙ (Q. Settings) → ⋮ → Picture → Aspect Ratio Settings → Just Scan
  Set Just Scan to Off.
  Just Scan shows you the original image as it is. You may see noise in all four directions on the screen if the signal contains noise.

The screen is blank or the image is blurred when an HDMI cable is used.

- Check that the HDMI® cable meets the required standards. If it is not a certified HDMI® cable, the screen may flicker or may not display anything.
- Check that the cable is properly connected. Improper connection may cause screen flicker.

Sound Problems

First of all, perform a ⚙ (Q. Settings) → ⋮ → Sound → Sound Test to check for any abnormalities in the projector.

If you are using a set-top box, turn it off, and then turn it back on.

Make sure that the set-top box is correctly connected to your projector.

The screen is fine, but it does not play any sound.

- Try another channel.
- ⚙ (Q. Settings) → ⋮ → Sound → Sound Out
  Check whether the Sound Out is set to Internal Projector Speaker .
  If you use a set-top box, there will be no sound if you have set the volume of the set-top box or your projector to 0 or enabled Mute. Set the volume to an appropriate level.

The stereo sound is not clear on an analog channel, or there is no sound from one of the speakers.

- Applies only in countries where sound multiplex broadcasting is available.
  ◎ Wheel (OK) or ◉ OK → 🔊
  Select MONO in Multi Audio if you are out of range or sound multiplex broadcasting is not stable.
- ⚙ (Q. Settings) → ⋮ → Sound → Sound Mode Settings → Balance
  Adjust the balance as necessary with the Navigation button in Balance.

The TV sound is not synchronized with the picture, or the sound sometimes breaks up.

- If this happens on only some of the channels, it may be caused by the broadcasting company's transmission signal. Please have your broadcasting services provider (wired/cable) diagnose the problem.
- If all channels are out of sync, go to ⚙ (Q. Settings) → ⋮ → Sound → AV Sync Adjustment and adjust the sync.

The volume changes when I change the channel.

- The volume of different broadcasting stations transmission output may vary.
- ⚙ (Q. Settings) → ⋮ → Sound → Auto Volume
  Set Auto Volume to On.

The sound does not work or only the background music is played in some programs. (Programs produced for export by broadcasting companies)

- ◍ Wheel (OK) or ◉ OK → 🔊
- Set your language preference in Audio Language.

The sound does not play when I connect to the HDMI/USB port.

- Check that you are using a high-speed HDMI® cable.
- Check that the USB and USB cable versions are 2.0 or higher.
- Use a normal music file (*.mp3, *.wav, *.ogg, *.wma).

PC Connection Problems

The screen remains blank after it is connected to a PC.

- Check that the PC is properly connected to the projector.
- Turn the projector off and back on using the remote control.
- Restart the PC with the projector on.
- Check that the current screen resolution supports the PC input.
- To use dual monitors, check that the PC or notebook supports dual-monitor mode.
- Reconnect the high speed HDMI cable.
- If you have connected the RGB output port of your PC o the HDMI input port or your projector. You need an RGB to HDMI gender.
  You will not see anything on the screen if you use an HDMI to RGB gender.

The sound does not play when the PC is connected with an HDMI cable.

- Contact your video card manufacturer to check the HDMI audio output. (Video cards designed for use with DVI format files need to be connected separately with an audio cable.)

The screen is cut off or moved to one side after it is connected to a PC.

- Set to a resolution that supports the PC input. (Reboot your PC after changing the resolution.)

Photo & Video Movie Playback Problems

For more information about supported files, see *"PLAY OTHER DEVICE FILES"*.

I cannot find a file in the Photo & Video.

- Check that the files on the USB storage device can be read by a PC.
- Check that the file extension is supported.

I get a message saying "This file is not supported" or the sound is playing normally but the video is not.

- Check that the file plays without any problems on a PC's video player. Also check for file damage.
- Check that the file extension is supported.
- Check that the resolution is supported.
- Check that the video codec is supported.
- Check that the frame rate is supported.

I get a message saying "This audio is not supported" or the video is playing normally but the audio is not.

- Check that the file plays without any problems on a PC's video player. Also check for file damage.
- Check that the file extension is supported.
- Check that the audio codec is supported.
- Check that the bit rate is supported.
- Check that the sample rate is supported.
- Check that the audio channel separation is supported.

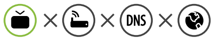
I cannot see the subtitles.

- Check that the file plays without any problems on a PC's video player. Also check for file damage.
- Check that the video and subtitle files have the same name.
- Also check that both the video file and the subtitle file are in the same folder.
- Check that the subtitle file format is supported.
- Check that the language is supported. (You can check the language of the subtitle file by opening the file in the Notepad.)
- If subtitles encoding is incorrectly set, subtitles may not be displayed properly. Select … → SUB in the control panel at the bottom of the video playback screen and change the CODE PAGE value.
- If you play a video file stored on another device by using the content sharing feature, subtitles may not be available depending on the program you use.

Network Connection Problems

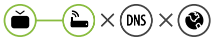
You can check the network connection status as shown below.

- ⚙ (Q. Settings) → ⋮ → Network → Wired Connection (Ethernet)
- ⚙ (Q. Settings) → ⋮ → Network → Wi-Fi Connection → Advanced Wi-Fi Settings



When X appears next to projector

- Check the projector or the AP (Router).
- Check the connection status of the projector, AP (Router) and Cable Modem.
- Power off and power on in the following order;
  1. The Cable Modem, wait for the Cable Modem to reset.
  2. The AP (Router), wait for the AP (Router) to reset.
  3. The projector.
- If you are using a wireless connection, change the SSID (Network name) and wireless channel of AP (Router).
- If you are using a static IP, enter the IP directly.
- Contact internet service provider or AP (Router) companies.



When X appears next to Gateway

- Check the AP (Router) or consult your Internet service provider.
- Unplug the power cord of the AP (Router), Cable Modem, wait 10 seconds. Reapply power.
- Initialize (Reset) on the AP (Router) or Cable Modem.
- Contact internet service provider or AP (Router) companies.
- Check the AP (Router) manufacturer’s website to make sure your router has the latest firmware version installed.

DNS × When X appears next to DNS

- Check the AP (Router) or consult your Internet service provider.
- Unplug the power cord of the Cable Modem or the AP (Router), wait 10 seconds. Reapply power.
- After the Cable Modem or AP (Router) has Initialized (Reset), try to reconnect.
- Check that the MAC address of the projector/AP (Router) is registered with your Internet service provider. (The MAC address displayed on the pane of the network status window should be registered with your Internet service provider.)

LG Account Problems

In some countries, access to the website (www.lgappstv.com) may be restricted.

I have already signed up on the projector. Do I still have to sign up again at the website (www.lgappstv.com)?

- If you have already signed up on your projector, you do not have to sign up again on the website. You can sign into the website by using the same ID and password and entering the additional information to complete the email verification process.

Is it possible for the family members to use different IDs on the same projector?

- You can register multiple IDs per projector.

I forgot my ID/Password. What should I do?

- You can initialize the password through E-mail when you select FORGOT PASSWORD? on the sign in screen.
- If you signed up on a PC, you can find your ID/Password on the website (www.lgappstv.com).

Contents Problems

I cannot see any content in HOME.

- This feature is available in certain countries only.
  You may not be able to see the content if the service country setting has been changed. Change to the service country you are going to use the service from in ⚙ (Q. Settings) → ⋮ → General → Location → LG Services Country .
- You may not be able to view content that has been deleted. Please reinstall the appropriate app.
- The type of supported content differs by country.
- The content offerings are subject to change or interruption by the service provider.

Internet Browser Problems

Some parts of a particular website are not visible when I am using the Internet.

- The Web Browser supports only HTML5 media and not Flash Plug-in.
- The Web Browser does not support plug-in installation.
- On the Web Browser , it may not be possible to play media files in formats other than JPEG/PNG/GIF
- You cannot save attachments or images.

The Internet browser automatically shuts down when I visit a website.

- The Internet browser may be forced to shut down if the available memory size is not sufficient to accommodate the image information for a website.

GMS INDUSTRIAL SUPPLY
AMERICAN PATRIOT
FAMILY OF COMPANIES

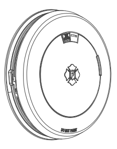
Smoke Detector
063120

USER'S MANUAL

SMOKE ALARM

10-YEAR SEALED BATTERY

Model SM210



IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

The warnings/limitations card and manual contains important information about your Smoke Alarm's operation. If you are installing this Alarm for use by others, you must leave this manual—or a copy of it—with the end user.

Para el manual del usuario en español, por favor visite firstalert.com

01 INTRODUCTION

BASIC SAFETY INFORMATION

⚠ WARNING!

- This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
- Do not connect this unit to any other Alarm or auxiliary device. It is a single-station unit that cannot be linked to other devices. Connecting anything else to this unit may prevent it from working properly.
- Unit will not operate without battery power. The Smoke Alarm cannot work until you activate the battery power pack.

⚠ CAUTION!

- Do not install this unit over an electrical junction box. Air currents around junction boxes can prevent smoke from reaching the sensing chamber and prevent the unit from Alarming. Only AC powered units are intended for installation over junction boxes.
- Do not stand too close to the unit when the Alarm is sounding. It is loud to wake you in an emergency. Exposure to the horn at close range may harm your hearing.
- Do not paint over the unit. Paint may clog the openings to the sensing chamber and prevent the unit from operating properly.

02 ABOUT SMOKE ALARMS

TYPES OF ALARMS

All these Smoke Alarms are designed to provide early warning of fires if located, installed and cared for as described in the user's manual, and if smoke reaches the Alarm. If you are unsure which type of unit to install, refer to NFPA (National Fire Protection Association) 72 (National Fire Alarm and Signaling Code) and NFPA 101 (Life Safety Code). National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Local building codes may also require specific units in new construction or in different areas of the home.

Battery (DC) operated Smoke Alarms: Provide protection even when electricity fails, provided the batteries are fresh and correctly installed. Units are easy to install, and do not require professional installation. They do not, however, provide interconnected functionality.

AC powered Smoke Alarms: Can be interconnected so if one unit senses smoke, all units Alarm. They do not operate if electricity fails.

AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

Smoke Alarms for Solar or wind energy users and battery backup power systems: AC powered Smoke Alarms should only be operated with true or pure sine wave inverters. Operating this Smoke Alarm with most battery powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" inverters **will damage the Alarm**. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify.

Smoke Alarms for the hearing impaired: Special purpose Smoke Alarms should be installed for the hearing impaired. They include a visual Alarm and an audible Alarm horn, and meet the requirements of the Americans with Disabilities Act. These units can be interconnected so if one unit senses smoke, all units Alarm.

Smoke Alarms are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

All First Alert® Smoke Alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are produced in all fires.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket, or a grease fire in the kitchen.

Photoelectric technology is generally more sensitive than ionization technology at detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding.

For maximum protection, use both types of Smoke Alarms on each level and in every bedroom of your home.

03 INSTALLATION

BEFORE YOU INSTALL THIS SMOKE ALARM

Important! Read "Recommended Locations for Smoke Alarms" and "Locations to Avoid for Smoke Alarms" before beginning. This unit monitors the air, and when smoke reaches its sensing chamber, it Alarms. It can give you more time to escape before fire spreads. This unit can ONLY give an early warning of developing fires if it is installed, maintained and located where smoke can reach it, and where all residents can hear it, as described in this manual. This unit will not sense gas, heat, or flame. It cannot prevent or extinguish fires.

Understand The Different Type of Smoke Alarms: Battery powered or electrical? Different Smoke Alarms provide different types of protection. See "About Smoke Alarms" for details.

Know Where To Install Your Smoke Alarms: Fire Safety Professionals recommend at least one Smoke Alarm on every level of your home, in every bedroom, and in every bedroom hallway or separate sleeping area. See "Recommended Locations for Smoke Alarms" and "Locations to Avoid for Smoke Alarms" for details.

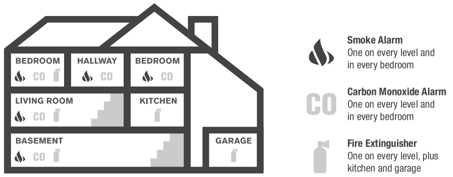
Know What Smoke Alarms Can and Can't Do: A Smoke Alarm can help alert you to fire, giving you precious time to escape. It can only sound an Alarm once smoke reaches the sensor. See "Limitations of Smoke Alarms" for details.

Check Your Local Building Codes: This Smoke Alarm is designed to be used in a typical single family home. It alone will not meet requirements for boarding houses, apartment buildings, hotels or motels. See "Special Compliance Considerations" for details.

WHERE TO INSTALL THIS ALARM

- On every level of your home, including finished attics and basements.
- Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an Alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of basement stairway.

RECOMMENDED PLACEMENT:



Smoke Alarm
One on every level and in every bedroom

Carbon Monoxide Alarm
One on every level and in every bedroom

Fire Extinguisher
One on every level, plus kitchen and garage

WHERE NOT TO INSTALL THIS ALARM

FOR BEST PERFORMANCE, IT IS RECOMMENDED YOU AVOID INSTALLING SMOKE ALARMS IN THESE AREAS:

- Where combustion particles are produced. Combustion particles form when something burns. Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot (6-meter) distance is not possible – in modular, mobile, or smaller homes, for example – it is recommended the Smoke Alarm be placed as far from these fuel-burning sources as possible. The placement recommendations are intended to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce "unwanted" Alarms. Unwanted Alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.
- In air streams near kitchens. Air currents can draw cooking smoke into the sensing chamber of a Smoke Alarm near the kitchen.
- In very damp, humid or steamy areas, or directly near bathrooms with showers. Keep units at least 10 feet (3 meters) away from showers, saunas, dishwashers, etc.
- Where the temperatures are regularly below 40° F (4.4° C) or above 100° F (37.8° C), including unheated buildings, outdoor rooms, porches, or unfinished attics or basements.
- In very dusty, dirty, or greasy areas. Do not install a Smoke Alarm directly over the stove or range. Keep laundry room Smoke Alarms free of dust or lint.
- Near fresh air vents, ceiling fans, or in very drafty areas. Drafts can blow smoke away from the unit, preventing it from reaching the sensing chamber.
- In insect infested areas. Insects can clog openings to the sensing chamber and cause unwanted Alarms.
- Less than 12 inches (305mm) away from fluorescent lights. Electrical "noise" can interfere with the sensor.
- In "dead air" spaces. "Dead air" spaces may prevent smoke from reaching the Smoke Alarm.

AVOIDING DEAD AIR SPACES

"Dead air" spaces may prevent smoke from reaching the Smoke Alarm. To avoid dead air spaces, follow the installation recommendations below.

On ceilings, install Smoke Alarms as close to the center of the ceiling as possible. If this is not possible, install the Smoke Alarm at least 4 inches (102 mm) from the wall or corner.

For wall mounting (if allowed by building codes), the top edge of Smoke Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line, below typical "dead air" spaces.

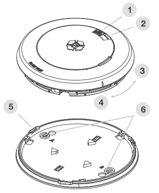
On a peaked, gabled, or cathedral ceiling, install the first Smoke Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for details on requirements for sloped or peaked ceilings.

HOW TO INSTALL THIS ALARM

This unit is designed to be mounted on the ceiling, or on the wall if necessary.

Tools you will need: pencil, drill with 3/16" (5 mm) drill bit, standard flathead screwdriver, hammer.

THE PARTS OF THIS SMOKE ALARM

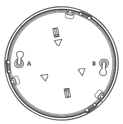


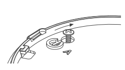
1. Test/Silence button
2. Dual power indicator light and Alarm indicator: Green LED provides visual indication of an Alarm memory condition; Red LED provides visual indication of an Alarm and hush modes
3. Turn this way to remove
4. Turn this way to attach
5. Mounting bracket
6. Mounting slots

FOLLOW THESE SIMPLE STEPS

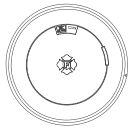
1. Choose a location. See "Where to Install This Alarm" for reference.
   WARNING! Do not install this Alarm over an existing electrical box. Only AC powered units are intended for installation over electrical boxes.
2. Mark hole locations 4-1/4" apart. Use the mounting bracket to verify the hole mark locations are accurately spaced. If mounting on the wall, holes must be aligned horizontally to ensure Alarm is mounted upright. Put the Alarm where it won't get covered with dust while you drill the holes.
3. Use a 3/16" (5mm) drill bit to drill through the marks you made for the mounting holes.
4. Insert the plastic screw anchors (in the plastic bag with the screws) into the holes. Tap the screw anchors gently with a hammer, if necessary, until they are flush with the ceiling or wall.
5. Insert the screws but do not tighten completely. Leave them about 1/4" (6mm) away from the wall. Attach the mounting bracket to the wall or ceiling by aligning the round part of the slots with the screws. To mount on a wall, align the hole marked A with the left screw. Rotate the bracket until the screws are completely inside the raised portion of the circular recesses (see image). Once the screws are completely inside the raised portion of the circular recesses, tighten the screws until they are snug to secure the bracket. Do not over-tighten the screws.

Mounting Hole Sets





6. Activating the battery. Mount Alarm to mounting bracket to activate. Alarm will be oriented as shown. Once unit is activated, it cannot be turned off. Make sure the Alarm is locked into the mounting bracket.
   NOTE: After you activate the battery, there may be Power and LED activation indicators.
7. Test the Alarm. See "Weekly Testing."



Action	What You Will See & Hear
Under Normal Operations	**Horn:** Silent; **Power LED:** Flashes green once a minute
When You Test the Alarm	**Horn:** A short "chirp" and then 3 beeps, pause, 3 beeps
If Battery Becomes Low	**Horn:** 5 chirps every minute; **Power LED:** One green flash approximately once a minute
If Alarm is Not Operating Properly	**Horn:** 3 chirps every minute; **Power LED:** Three green flashes approximately once a minute
Alarm has reached End of Life	**Horn:** 5 chirps every minute; **Power LED:** Five green flashes approximately once a minute
Smoke is Detected	**Horn:** 3 beeps, pause, 3 beeps; **Power LED:** Flashes red
Smoke Alarm is Silenced	**Horn:** Off; **Power LED:** Flashes red

04 ALARM FEATURES

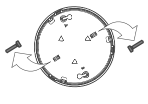
- **No Battery Replacements:** Or low battery chirps for the life of the Alarm.
- **Easy Installation:** Add protection in minutes.
- **End-of-Life Warning:** Let's you know when it's time to replace.

OPTIONAL LOCKING FEATURE

The optional locking feature is designed to prevent unauthorized removal of the Alarm. It is not necessary to activate the lock in single-family households where unauthorized Alarm removal is not a concern.

Tools you will need: Needle-nose pliers or utility knife, standard flathead screwdriver

The feature uses a locking pin which is molded into the mounting bracket. Remove locking pin by using needle-nose pliers or a utility knife.

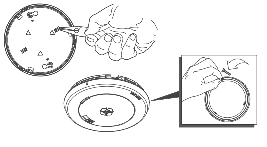


IMPORTANT!

To permanently remove the locking pin, insert a flathead screwdriver between the locking pin and the lock and pry the pin out of the lock.

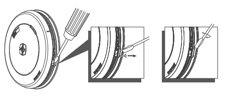
TO LOCK THE MOUNTING BRACKET

1. Using needle-nose pliers, detach the pin from the mounting bracket.
2. Insert the locking pin through the hole on the back of the Smoke Alarm as shown in the diagram.
3. When you attach the Alarm to the mounting bracket the locking pin's head will fit into a notch on the bracket.



TO UNLOCK THE MOUNTING BRACKET

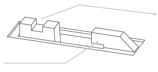
1. Insert a flathead screwdriver in between the mounting bracket and the locking pin.
2. Pry the Alarm away from the bracket by pushing up the screwdriver and turning the Alarm counterclockwise (left) at the same time.



HOW TO PERMANENTLY DEACTIVATE THE SMOKE ALARM

After Malfunction, 10 years of Operation Low Battery or End of Life Warnings, deactivate the Alarm: Insert a tool below edge where shown and break tab. Then slide activation switch to deactivate mode.

NOTE: At end of life (chirp): unit must be put into deactivation mode to deactivate remaining stored energy in battery. Unit will no longer function once put into this mode. Unit will resist re-mounting.



05 TESTING & MAINTENANCE

WEEKLY TESTING

⚠ WARNING!

- **NEVER** use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home.
- If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" for details.
- **DO NOT** stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.

⚠ CAUTION!

It is important to test this unit every week to make sure it is working properly. Using the Test/Silence button is the recommended way to test this Smoke Alarm. Press and hold the Test/Silence button on the cover of the unit until the Alarm sounds (the unit may continue to Alarm for a few seconds after you release the button). If it does not Alarm, make sure the unit is receiving power and test it again. If it still does not Alarm, replace it immediately. During testing you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause. Red LED flashes rapidly.

REGULAR MAINTENANCE

This unit has been designed to be as maintenance free as possible, but there are a few simple things you must do to keep it working properly.

- Test it at least once a week.
- Clean the Smoke Alarm at least once a month; gently vacuum off any dust using your household vacuum's soft brush attachment, and test the Smoke Alarm after cleaning. Never use water, cleaners or solvents since they may damage the unit.
- If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted Alarms, replace the unit immediately.
- If the green power LED flashes 2 times every minute (horn is silent) it means that the Alarm needs to be cleaned as indicated above. If green light continues to flash, replace Alarm.
- Relocate the unit if it sounds frequent unwanted Alarms. See "Locations to Avoid for Smoke Alarms" for details.
- Protect or cover the alarm when doing any maintenance to home i.e. sanding floors, painting, drywall patching, etc. to prevent contamination.

IMPORTANT!

Actual service life depends on the Smoke Alarm and the environment in which it is installed. You **MUST** replace the Smoke Alarm immediately once the unit starts "chirping" (the End of Life or Malfunction warning).

TROUBLESHOOTING GUIDE

IF THE ALARM...	PROBLEM...	YOU SHOULD...
Horn sounds 3 "chirps" every minute.	**MALFUNCTION SIGNAL.** Device is not working properly, and needs to be replaced.	If unit is under warranty, contact Consumer Support to process a warranty replacement.
Horn sounds 5 chirps every minute; **LED** has one Green flash approx every minute.	Low Battery Signal, Alarm needs to be replaced.	Immediately replace the Alarm.
The **light** flashes GREEN and the **horn** sounds 5 "chirps" every minute.	**END OF LIFE SIGNAL.** Alarm needs to be replaced.	Immediately replace the Alarm.
Smoke Alarm sounds when no smoke is visible.	Unwanted Alarm may be caused by nonemergency source like cooking smoke.	Silence Alarm using Test/Silence button; clean the Alarm's cover with a soft, clean cloth. If frequent unwanted Alarms continue, relocate your Alarm. Alarm may be too close to a kitchen, cooking appliance, or steamy bathroom.
Power LED flashes Green 2 times every minute.	Alarm requires cleaning.	Clean Alarm then press and release the test button. See Regular Maintenance section. If Green LED Continues to flash, contact Consumer Support.

If you have questions that cannot be answered by reading this manual, call the Consumer Support Team at 1-800-323-9005

FIRE SAFETY TIPS

Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches or lighters away from children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits; 5) Keep stoves, barbecue grills, fireplaces and chimneys grease- and debris-free; 6) Never leave anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like candles, away from flammable materials; 8) Don't let rubbish accumulate. Keep Alarms clean, and test them weekly. Replace Alarms immediately if they are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every level, and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper level in case stairs are blocked; 9) Have an escape plan and practice it regularly.

06 IF THIS SMOKE ALARM SOUNDS

RESPONDING TO AN ALARM

During an Alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause. The Red LED flashes rapidly.

⚠ WARNING!

- If the unit Alarms get everyone out of the house immediately.
- If the unit Alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. **NEVER** ignore any Alarm. Ignoring the Alarm may result in injury or death.
- Never remove the batteries from a battery operated Smoke Alarm to stop an unwanted Alarm (caused by cooking smoke, etc.). Removing batteries disables the Alarm so it cannot sense smoke, and removes your protection. Instead open a window or fan the smoke away from the unit. The Alarm will reset automatically.

WHAT TO DO IN CASE OF FIRE

- Don't panic; stay calm. Follow your family escape plan.
- Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.
- Feel doors with the back of your hand before opening them. If a door is cool, open it slowly. Don't open a hot door. Keep doors and windows closed, unless you must escape through them.
- Cover your nose and mouth with a cloth (preferably damp). Take short, shallow breaths.
- Meet at your planned meeting place outside your home, and do a head count to make sure everybody got out safely.
- Call the Fire Department as soon as possible from outside. Give your address, then your name.
- Never go back inside a burning building for any reason.
- Contact your Fire Department for ideas on making your home safer.

⚠ WARNING!

Alarms have various limitations. See "General Limitations of Smoke Alarms" for details.

07 USING THE SILENCE FEATURES

The Silence Feature can temporarily quiet an unwanted Alarm for up to 9 minutes. To use this feature, press the Test/Silence button on the cover. If the unit will not silence and no heavy smoke is present, or if it stays in silence mode continuously, it should be replaced immediately. The LED will flash every 10 seconds while in silence.

⚠ WARNING!

The Silence Feature does not disable the unit—it makes it temporarily less sensitive to smoke. For your safety, if smoke around the unit is dense enough to suggest a potentially dangerous situation, the unit will stay in Alarm or may re-Alarm quickly. If you do not know the source of the smoke, do not assume it is an unwanted Alarm. Not responding to an Alarm can result in property loss, injury, or death.

SILENCING THE LOW BATTERY WARNING

This Silence Feature can temporarily quiet the Low Battery Warning "chirp". Press the Test/Silence button on the Alarm. The Red light flashes normally, once every 6 minutes, during Low Battery Warning silence. After time, the low battery "chirp" will resume. Deactivate the Smoke Alarm and replace it immediately.

IF YOU SUSPECT A PROBLEM

Smoke Alarms may not operate properly because of a dead or weak battery, a build-up of dirt, dust or grease on the Smoke Alarm cover, or installation in an improper location. Clean the Smoke Alarm as described in "Regular Maintenance," and then test the Smoke Alarm again. If it fails to test properly when you use the test button, or if the problem persists, replace the Smoke Alarm immediately.

- If you hear 3 or 5 chirps every minute or so, replace the Smoke Alarm.
- If you experience frequent non-emergency Alarms (like those caused by cooking smoke), try relocating the Smoke Alarm.
- If the Alarm sounds when no smoke is visible, try cleaning or relocating the Smoke Alarm. The cover may be dirty.
- If the Alarm does not sound during testing, make sure the power pack activating lever is pushed all the way securely.

Do not try fixing the Alarm yourself — this will void your warranty!

If the Smoke Alarm is still not operating properly, and it is still under warranty, please see "How to Obtain Warranty Service" in the Limited Warranty.

08 REGULATORY INFORMATION FOR SMOKE ALARMS

RECOMMENDED LOCATIONS FOR SMOKE ALARMS

INSTALLING SMOKE ALARMS IN SINGLE-FAMILY RESIDENCES

The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every level, in every sleeping area, and in every bedroom. In new construction, the Smoke Alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a Smoke Alarm in all rooms, halls, storage areas, finished attics, and basements, where temperatures normally remain between 40° F (4.4° C) and 100° F (37.8° C). Make sure no door or other obstruction could keep smoke from reaching the Smoke Alarms.

MORE SPECIFICALLY, INSTALL SMOKE ALARMS:

- On every level of your home, including finished attics and basements.
- Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each.
- If a hall is over 40 feet (12 meters) long, install an Alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of basement stairway.

IMPORTANT!

Specific requirements for Smoke Alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. **It is recommended AC or AC/DC units be interconnected for added protection.**

09 AGENCY PLACEMENT RECOMMENDATIONS

NFPA 72 CHAPTER 29 "FOR YOUR INFORMATION, THE NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 72, READS AS FOLLOWS:"

29.5.1* Required Detection.

29.5.1.1* Where required by other governing laws, codes, or standards for a specific type of occupancy, approved single and multiple-station Smoke Alarms shall be installed as follows:

1. *In all sleeping rooms and guest rooms
2. *Outside of each separate dwelling unit sleeping area, within 21 ft (6.4 m) of any door to a sleeping room, with the distance measured along a path of travel
3. On every level of a dwelling unit, including basements
4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics
5. *In the living area(s) of a guest suite
6. In the living area(s) of a residential board and care occupancy (small facility)

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CALIFORNIA STATE FIRE MARSHAL (CSFM)

Early warning detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A Smoke Alarm installed in each separate sleeping area (in the vicinity, but outside bedrooms), and Heat or Smoke Alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, finished attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages.

10 SPECIAL COMPLIANCE CONSIDERATIONS

This Smoke Alarm is suitable for use in apartments, condominiums, townhouses, hospitals, day care facilities, health care facilities, boarding houses, group homes and dormitories provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, hallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations.

This Smoke Alarm alone is not a suitable substitute for complete fire detection systems in places housing many people—like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, health care facilities, nursing homes, day care facilities, or group homes of any kind. It is not a suitable substitute for complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and Alarm systems. Depending on the building codes in your area, this Smoke Alarm may be used to provide additional protection in these facilities.

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. In existing construction, AC, AC/DC, or DC powered Smoke Alarms can be used as specified by local building codes. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269). Refer to NFPA 101 (Life Safety Code), local building codes, or consult your Fire Department for detailed fire protection requirements in buildings not defined as "households".

11 GENERAL LIMITATIONS OF SMOKE ALARMS

Smoke Alarms have played a key role in reducing deaths resulting from home fires worldwide. However, like any warning device, Smoke Alarms can only work if they are properly located, installed, and maintained, and if smoke reaches them. They are not foolproof.

Smoke Alarms may not waken all individuals. Practice the escape plan at least twice a year, making sure that everyone is involved – from kids to grandparents. Allow children to master fire escape planning and practice before holding a fire drill at night when they are sleeping. If children or others do not readily waken to the sound of the Smoke Alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in fire drill and in the event of an emergency. It is recommended that you hold a fire drill while family members are sleeping in order to determine their response to the sound of the Smoke Alarm while sleeping and to determine whether they may need assistance in the event of an emergency.

Smoke Alarms cannot work without power. Battery operated units cannot work if the batteries are missing, disconnected or dead, if the wrong type of batteries are used, or if the batteries are not installed correctly. AC units cannot work if the AC power is cut off for any reason (open fuse or circuit breaker, failure along a power line or at a power station, electrical fire that burns the electrical wires, etc.). If you are concerned about the limitations of battery or AC power, install both types of units.

Smoke Alarms cannot detect fires if the smoke does not reach the Alarms. Smoke from fires in chimneys or walls, on roofs, or on the other side of closed doors may not reach the sensing chamber and set off the Alarm. That is why one unit should be installed inside each bedroom or sleeping area—especially if bedroom or sleeping area doors are closed at night—and in the hallway between them.

Smoke Alarms may not detect fire on another level or area of the home. For example, a stand-alone unit on the second level may not detect smoke from a basement fire until the fire spreads. This may not give you enough time to escape safely. That is why recommended minimum protection is at least one unit in every sleeping area, and every bedroom on every level of your home. Even with a unit on every level, stand-alone units may not provide as much protection as interconnected units, especially if the fire starts in a remote area. Some safety experts recommend installing interconnected AC powered units with battery back-up (see "About Smoke Alarms") or professional fire detection systems, so if one unit senses smoke, all units Alarm. Interconnected units may provide earlier warning than stand-alone units since all units Alarm when one detects smoke.

Smoke Alarms may not be heard. Though the Alarm horn in this unit meets or exceeds current standards, it may not be heard if: 1) the unit is located outside a closed or partially closed door, 2) residents recently consumed alcohol or drugs, 3) the Alarm is drowned out by noise from stereo, TV, traffic, air conditioner or other appliances, 4) residents are hearing impaired or sound sleepers. Special purpose units, like those with visual and audible Alarms, should be installed for hearing impaired residents.

The Alarm may not have time to Alarm before the fire itself causes damage, injury, or death, since smoke from some fires may not reach the unit immediately. Examples of this include persons smoking in bed, children playing with matches, when a person's clothing catches fire while cooking, fires caused by violent explosions resulting from escaping gas, or incendiary fires where the fire grows so rapidly that an occupant's egress is blocked even with properly located Smoke Alarms.

Smoke Alarms are not foolproof. Like any electronic device, Smoke Alarms are made of components that can wear out or fail at any time. You must test the unit weekly to ensure your continued protection. Smoke Alarms cannot prevent or extinguish fires. They are not a substitute for property or life insurance.

Smoke Alarms have a limited life. The unit should be replaced immediately if it is not operating properly. You should always replace a Smoke Alarm after 10 years from date of purchase. Write the purchase date on the space provided on back of unit.

For your records, please record:
Date Purchased: ______________________________
Where Purchased: ______________________________
Date Installed: ___________/___________Month/Year

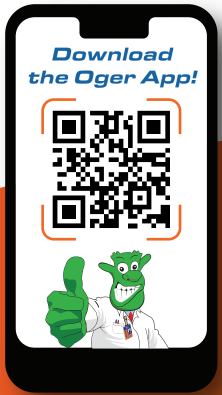
Replace Alarm 10 years after installation.
Please write the date in the space provided:
______________/____________**Month/Year**

The Alarm will also provide an audible End-of-Life Signal approximately 10 years after installation to remind you to replace the unit.

The End-of-Life Signal can be silenced for up to 2 days. Do not unplug or deactivate the Alarm until you get replacement.

GMS INDUSTRIAL SUPPLY
AMERICAN PATRIOT
FAMILY OF COMPANIES

Air Conditioner
32011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INTRODUCTION

Model Number ______________________________
Serial Number ______________________________
Purchase Date ______________________________

IMPORTANT SAFETY INSTRUCTIONS

WARNING

For Your Safety

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. Read product labels for flammability and other warnings.

WARNING

Prevent Accidents

To reduce the risk of fire, electrical shock, or injury to persons when using your air conditioner, follow basic precautions, including the following:

- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
- If the air conditioner is to be installed in a window, you will probably want to clean both sides of the glass first. If the window is a triple-track type with a screen panel included, remove the screen completely before installation.
- Be sure the air conditioner has been securely and correctly installed according to the separate installation instructions provided with this manual. Save this manual and the installation instructions for possible future use in removing or reinstalling this unit.
- When handling the air conditioner, be careful to avoid cuts from sharp metal fins on front and rear coils.

WARNING

Electrical Information

The complete electrical rating of your new room air conditioner is stated on the serial plate. Refer to the rating when checking the electrical requirements.

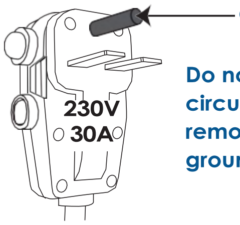
- Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important.

The power cord is equipped with a three-prong grounding plug for protection against shock hazards.

- Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
- Do not run air conditioner without outside protective cover in place. This could result in mechanical damage within the air conditioner.
- **Do not use an extension cord or an adapter plug.**

WARNING

Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.



Do not, under any circumstances, cut, remove or bypass the grounding prong.

NOTE

The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire.

Please refer to the section 'Operation of Current Device' for details.

In the event that the power supply cord is damaged, it cannot be repaired. It must be replaced with a cord from the product manufacturer.

SAFETY PRECAUTIONS

DANGER! Avoid Serious Injury or Death

- This air conditioner contains no user-serviceable parts. Always call an authorized Electrolux servicer for repairs.
- Do not insert or place fingers or objects into the air discharge area in the front of the unit.
- Do not start or stop the air conditioner by unplugging the power cord or turning off the power at the electrical box.
- Do not cut or damage the power cord.
- If the power cord is damaged, it should only be replaced by an authorized Electrolux servicer.
- In the event of a malfunction (sparks, burning smell, etc.), immediately stop the operation, disconnect the power cord, and call an authorized Electrolux servicer.
- Do not operate the air conditioner with wet hands.
- Do not pull on the power cord.
- Do not drink any water that is drained from the air conditioner.

SAFETY PRECAUTIONS

CAUTION! Avoid Injury or damage to the unit or other property

- Provide ventilation per installation instructions.
- Do not direct airflow at fireplaces or other heat related sources as this could cause flare ups or make units run excessively.
- Do not climb on or place objects on outdoor part of the unit.
- Do not hang objects off the unit.
- Do not place containers with liquids on the unit.
- Turn off the air conditioner at the power source when it will not be used for an extended period of time.
- Periodically check the condition of the unit's installation accessories for any damage.
- Do not apply heavy pressure to the radiator fins of the unit.
- Operate the unit with air filter in place.
- Do not block or cover the intake grille, discharge area and outlet ports.
- Ensure that any electrical/electronic equipment is one yard away from the unit.
- Do not use or store flammable gases near the unit.
- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and circuit breaker are turned off.

CAUTION

- This appliance is not intended for use by persons (including children) with reduced physical ,sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
  - Children should be supervised to ensure that they do not play with the appliance.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.

READ THIS SECTION BEFORE ATTEMPTING TO OPERATE AIR CONDITIONER.

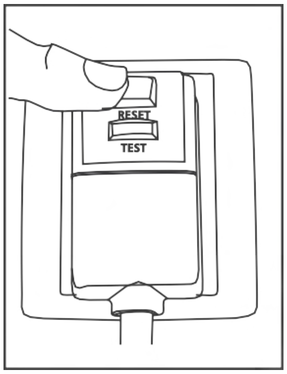
Unit must be upright for one hour prior to operating.

Operation of Current Device

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord do the following:

1. Plug in the Air Conditioner.
2. The power supply cord will have TWO buttons on the plug head. Press the TEST button. You will notice a click as the RESET button pops out.
3. Press the RESET button. Again you will notice a click as the button engages.
4. The power supply cord is now supplying electricity to the unit. (This is also indicated by a light on the plug head).

Plug in & press RESET



NOTE

- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply cord must be replaced if it fails to reset when either the TEST button is pushed, or it cannot be reset. A new one can be obtained from the product manufacturer.
- If power supply cord is damaged, it CANNOT be repaired. It MUST be replaced by one obtained from the product manufacturer.

WARNING

FOR FLAMMABLE REFRIGERANT

- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- DO NOT modify the length of the power cord or use an extension cord to power the unit.
- DO NOT share a single outlet with other electrical appliances. Improper power supply can cause fire or electrical shock.
- Please follow the instruction carefully to handle, install, clear, service the air conditioner to avoid any damage or hazard.
- Flammable Refrigerant R32 is used within air conditioner. When maintaining or disposing the air conditioner, the refrigerant (R32) shall be recovered properly, shall not discharge to air directly.
- Compliance with national gas regulations shall be observed.
- Keep ventilation openings clear of obstruction.
- The appliance shall be stored so as to prevent mechanical damage from occurring.

- A warning that the appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.

Examples for such working procedures are:

- Breaking into the refrigerating circuit;
- Opening of sealed components;
- Opening of ventilated enclosures.
- No any open fire or device like which may generate spark/arcing shall be around air conditioner to avoid causing ignition of the flammable refrigerant used. Please follow the instruction carefully to store or maintain the air conditioner to prevent mechanical damage from occurring.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance) and ignition sources or (for example: an operating electric heater) close to the appliance.
- Do Not pierce or burn.
- Be aware that the refrigerants may not contain an odour.

1. **Transport of equipment containing flammable refrigerants.**
   See transport regulations.
2. **Marking of equipment using signs**
   See local regulations.
3. **Disposal of equipment using flammable refrigerants**
   See national regulations.
4. **Storage of equipment/appliances**
   The storage of equipment should be in accordance with the manufacturer's instructions.
5. **Storage of packed (unsold) equipment**
   Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge. The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.
6. **Information on servicing**

a) Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

b) Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.

c) General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

d) Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerating detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

e) Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

f) No ignition sources

No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. No Smoking signs shall be displayed.

g) Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

h) Checks to the refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. The following checks shall be applied to installations using flammable refrigerants: The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed; The ventilation machinery and outlets are operating adequately and are not obstructed; If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant; Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected; Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

i) Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. Initial safety checks shall include: That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking; That there no live electrical components and wiring are exposed while charging, recovering or purging the system; That there is continuity of earth bonding.

7. Repairs to sealed components

a) During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

b) Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc. Ensure that apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

8. **Repair to intrinsically safe components**

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use. Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating. Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

9. **Cabling**

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

10. **Detection of flammable refrigerants**

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area). Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed/extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Removal and evacuation.

11. **Removal and evacuation**

When breaking into the refrigerant circuit to make repairs – or for any other purpose– conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

a) safely remove refrigerant following local and national regulations;
b) purge the circuit with inert gas;
c) evacuate (optional for A2L);
d) purge with inert gas (optional for A2L);
e) open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems. For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

12. Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed. Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them. Cylinders shall be kept in an appropriate position according to the instructions. Ensure that the refrigeration system is earthed prior to charging the system with refrigerant. Label the system when charging is complete (if not already). Extreme care shall be taken not to overfill the refrigeration system. Prior to recharging the system it shall be pressure tested with OFN. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

13. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.
b) Isolate system electrically.
c) Before attempting the procedure ensure that: Mechanical handling equipment is available, if required, for handling refrigerant cylinders; All personal protective equipment is available and being used correctly; The recovery process is supervised at all times by a competent person; Recovery equipment and cylinders conform to the appropriate standards.
d) Pump down refrigerant system, if possible.
e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
f) Make sure that cylinder is situated on the scales before recovery takes place.
g) Start the recovery machine and operate in accordance with instructions.
h) Do not overfill cylinders. (No more than 80% volume liquid charge).
i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

14. Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

15. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

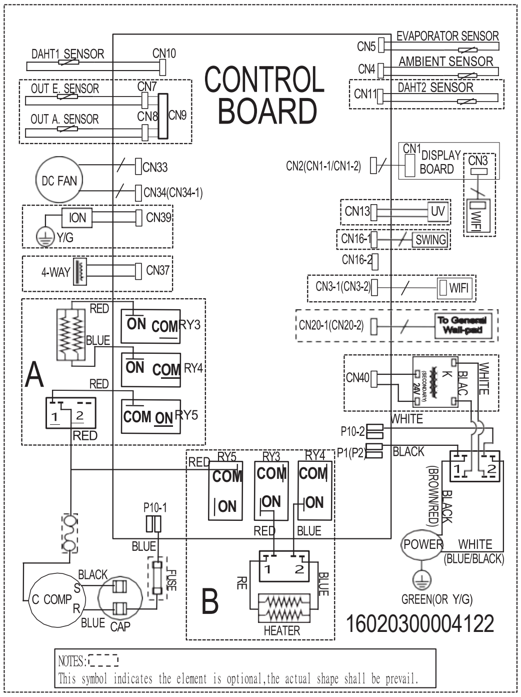
The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Non-duct connected appliances containing A2L refrigerants with the supply and return air openings in the conditioned space may have the body of the appliance may be installed in open areas such as false ceilings not being used as return air plenums, as long as the conditioned air does not directly communicate with the air of the false ceiling.

A2L ISO 817		**CAUTION:** **Risk of fire flammable materials** IMPORTANT NOTE: Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.

Wiring Diagram



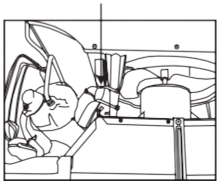
NOTES:
This symbol indicates the element is optional,the actual shape shall be prevail.

PACKAGING & NORMAL SOUNDS

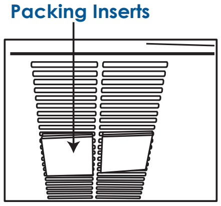
Packaging

Remove all packaging from inside the carton, along with any inserts placed into the side louvers.
Remove the plastic ties and foam pad that secure the compressor to the fan shroud (where applicable). See diagram.

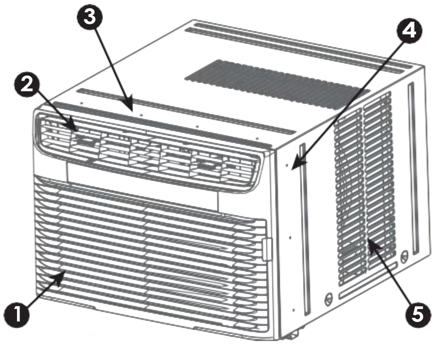
foam pad + plastic ties



Packing Inserts



Normal Sounds



❶ **Gurgle/Hiss**
"Gurgling or hissing" noise may be heard due to refrigerant passing through evaporator during normal operation.

❷ **Sound of Rushing Air**
At the front of the unit, you may hear the sound of rushing air being moved by the fan.

❸ **High pitched Chatter**
Today's high efficiency compressors may have a high pitched chatter during the cooling cycle.

❹ **Vibration**
Unit may vibrate and make noise because of poor wall or window construction or incorrect installation.

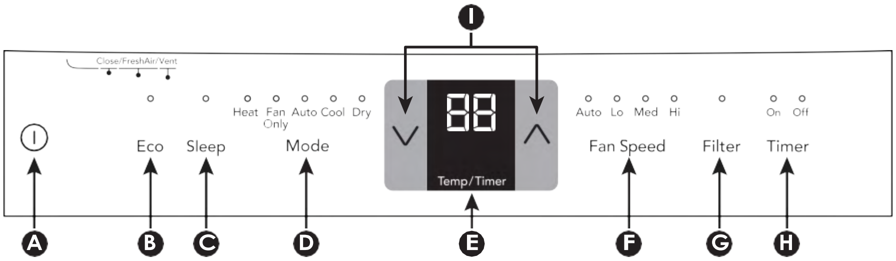
❺ **Pinging or Swishing**
Droplets of water hitting condenser during normal operation may cause "pinging or swishing" sounds.
Note: Don't try to drill any holes on the base pan to eliminate the normal sounds, otherwise it will void the warranty.

AIR CONDITIONER FEATURES

Air Conditioner Features

ELECTRONIC CONTROL

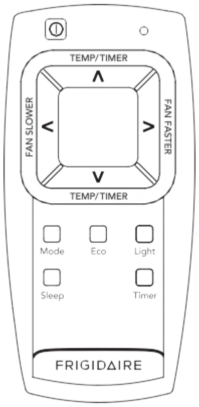
Before you begin, thoroughly familiarize yourself with the control panel, remote control and all its functions (as shown below). The unit can be controlled through the control panel or with the remote control.



A	Turns Unit On Or Off
B	Eco Feature
C	Sleep Feature
D	Sets Mode
E	Displays Temperature/time

F	Sets Fan Speed
G	Check Filter Reset Button
H	Activates Timer
I	Adjusts Temperature Or Time

REMOTE CONTROL



STANDARD REMOTE

Light Feature:

The display and all LED indicators on the control panel of the unit can be turned off by pressing the "Light" button on the remote control. If any other button of the control panel and remote control is pressed after that, the unit will beep to indicate it works as the corresponding direction of pressing specific button, and the display and LED indicators will illuminate accordingly, but they will turn off again in 5 seconds if no further operation.

Press the "Light" button again or unplug the unit to cancel this setting.

Battery Size: AAA

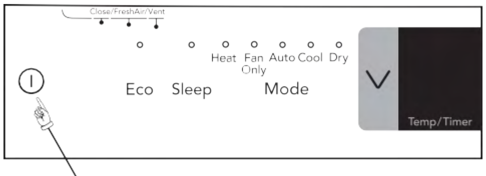
Warning: Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries. Caution for ingestion. Keep out of the reach of children.

OPERATING INSTRUCTIONS

NOTE

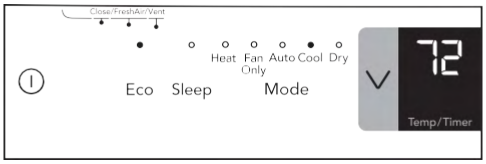
The following instructions are for the control panel. The same instructions can be used for the remote control.

TO TURN UNIT ON:



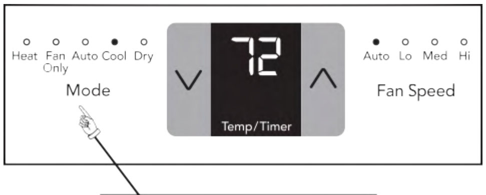
DO THIS:
PRESS ON/OFF BUTTON

YOU WILL SEE:



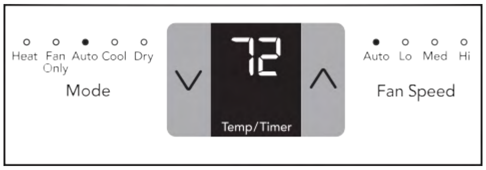
NOTE: The unit will run in Cool mode with Eco feature and Auto fan speed setting when used for the first time. With the Eco feature, when the room temperature is below the set temperature, the fan will continue to run for 3 minutes after the compressor shuts off. The fan then cycles on for 2 minutes at 10 minute intervals until the room temperature is above the set temperature, at which time the compressor turns back on. Eco feature can be activated or deactivated by pressing Eco button, but it is invalid in fan only mode.

AUTO FEATURE:



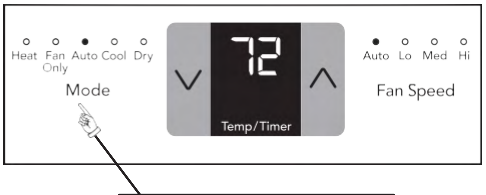
DO THIS:
PRESS MODE BUTTON
CHOOSE AUTO

YOU WILL SEE:



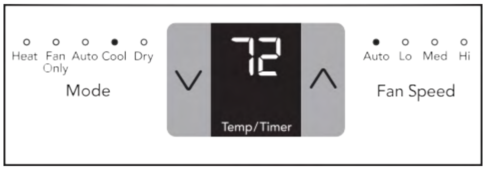
This mode is a fixed combination of Cool mode and Auto fan speed setting. In this mode, the fan speed can not be selected manually.

COOL FEATURE:



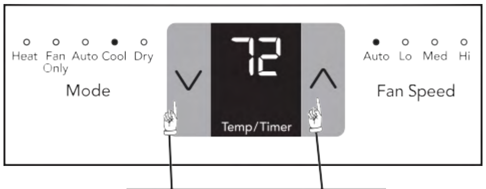
DO THIS:
PRESS MODE BUTTON
CHOOSE COOL

YOU WILL SEE:



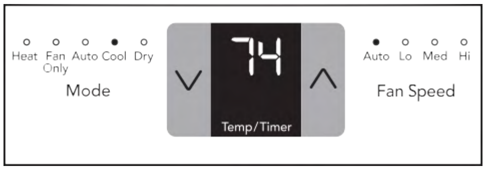
In this mode, the fan remains on all of the time with the compressor cycling on and off when the desired room temperature is reached.

TO CHANGE TEMPERATURE SETTING:



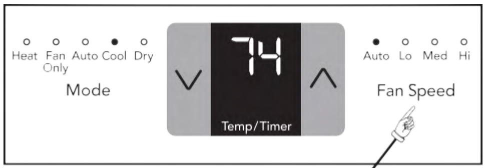
DO THIS:
PRESS ∧ TO RAISE
PRESS ∨ TO LOWER

YOU WILL SEE:



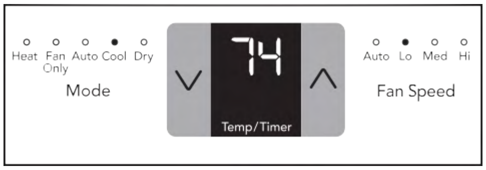
Tap or hold either up (∧) or down (∨) buttons until the desired temperature is seen on the display. This temperature will be automatically maintained anywhere between 62 °F (17 °C) and 86 °F (30 °C). If you want the display to read the actual room temperature. See "To Operate on Fan Only" section.

TO ADJUST FAN SPEEDS:



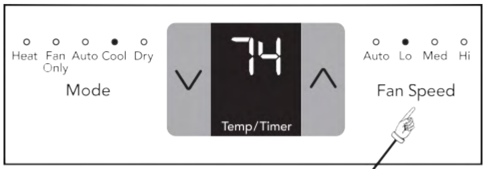
DO THIS:
PRESS TO SELECT

YOU WILL SEE:



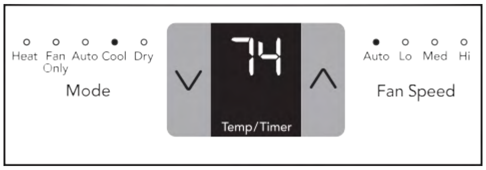
Note: The fan speed can be selected among four settings: Auto, Lo(Low), Med(Medium) and Hi(High), unless the unit runs in "Auto" or "Dry" mode, or the Sleep feature is activated.

TO USE AUTO FAN FEATURE:



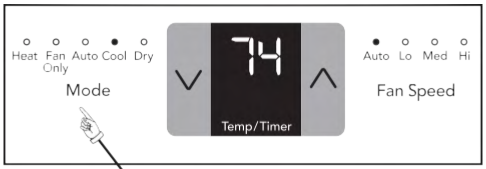
DO THIS:
PRESS FAN BUTTON,
CHOOSE AUTO

YOU WILL SEE:



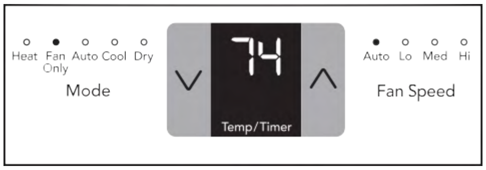
Fan starts at Low Speed and adjusts to a proper speed according to the room temperature dictates. For example, if the room doesn't get too warm, it will stay at the slowest speed. If the room temperature rises quickly, such as a door being opened, it will automatically go to the highest speed. The fan speeds will re-adjust back to the slowest speed as the room returns to the original set temperature.

TO OPERATE ON FAN ONLY:



DO THIS:
PRESS MODE BUTTON
CHOOSE FAN ONLY

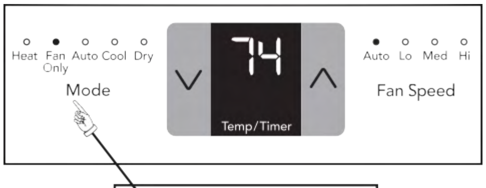
YOU WILL SEE:



Use this function only when cooling is not desired, such as for room air circulation or to exhaust stale air on some models. (Remember to open the vent during this function, but keep it closed during cooling for maximum cooling efficiency.) You can choose any fan speed you prefer.

During this function, the display will show the actual room temperature, not the set temperature as in the cooling mode.

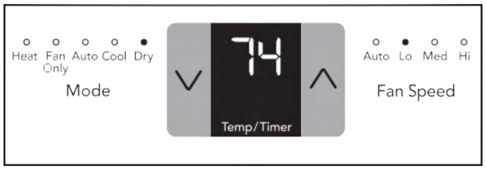
DRY MODE:



DO THIS:

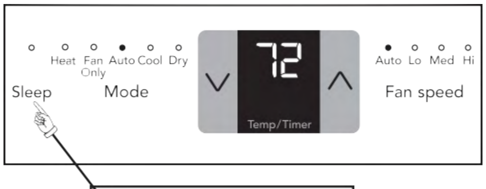
PRESS MODE BUTTON
CHOOSE DRY

YOU WILL SEE:



In this mode, the air conditioner will work like a dehumidifier, but will still cool the room. The temperature can be adjusted between 62 °F (17 °C) and 86 °F (30 °C) and the fan speed will be held at "Lo" speed.

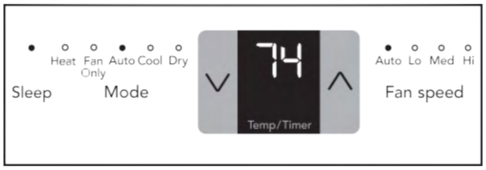
SLEEP FEATURE:



DO THIS:

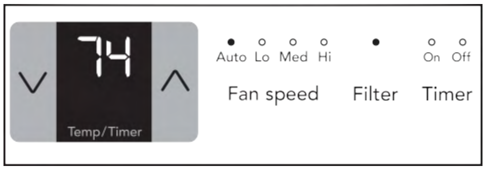
PRESS SLEEP
BUTTON

YOU WILL SEE:

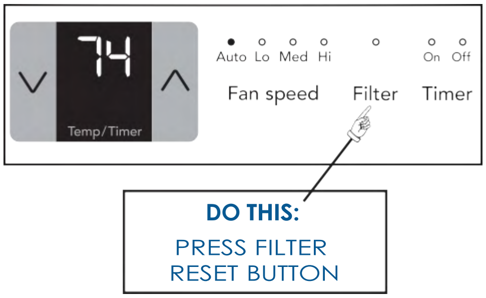


In this mode, the unit will automatically select the Auto fan speed, and the selected temperature will increase by 2 °F 30 minutes after sleep mode is selected. The temperature will then increase by another 2 °F after an additional 30 minutes. This new temperature will be maintained for 7 hours before it returns to the originally selected temperature. This ends the "Sleep" mode and the unit will continue to operate as originally programmed. The "Sleep" mode program can be cancelled at any time during operation by pressing the "Sleep" button, "Fan speed" or "Mode" button.

CHECK FILTER FEATURE, YOU WILL SEE:



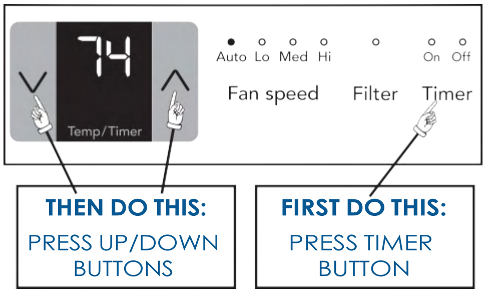
This feature is a reminder to clean the Air Filter (See Care and Cleaning) for more efficient operation. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the "Filter Reset" button and the light will go off.



DO THIS:

PRESS FILTER RESET BUTTON

TIMER: DELAY STOP/START FEATURE:



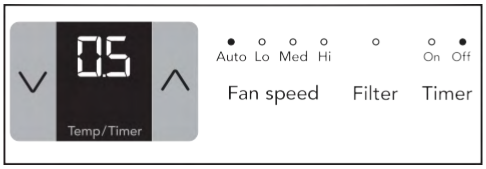
THEN DO THIS:

PRESS UP/DOWN BUTTONS

FIRST DO THIS:

PRESS TIMER BUTTON

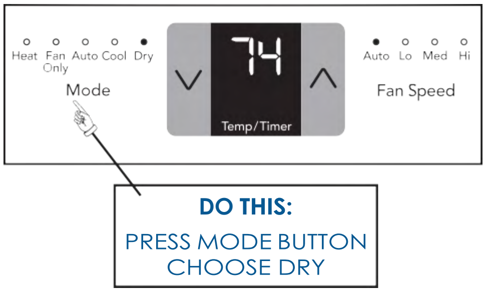
YOU WILL SEE HOW MUCH TIME IS CHOSEN:



To delay stop(or start), press the Timer button when the unit is power-on(or power-off), then the "timer off" indicator(or "timer on" indicator) will illuminate. Then adjust timer setting, tap or hold the UP arrow (⋀) or the DOWN arrow (⋁) to change delay timer at 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The setting will be confirmed automatically in 5 seconds, then the control will count down the time(8h, 7.5h, 7h, etc.) left, and all other settings will remain the same as they were before the timer setting is confirmed, until stop(or start).

Setting combination of “delay stop turn off delay start” or “delay start turn on delay stop” is workable. Both "timer off" indicator and "timer on" indicator will illuminate then. The timer setting can be canceled by either pressing and holding the timer button for 2 seconds, or pressing the power on/off button at any time to turn off the unit directly.

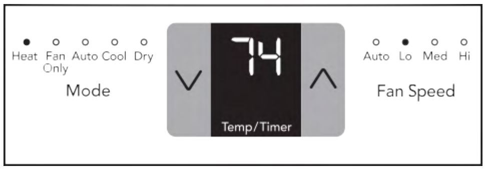
HEATING FEATURE:



DO THIS:

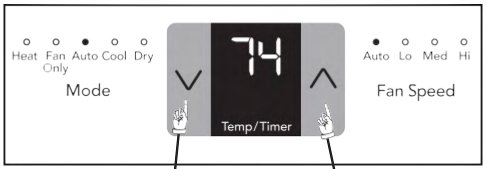
PRESS MODE BUTTON CHOOSE DRY

YOU WILL SEE:



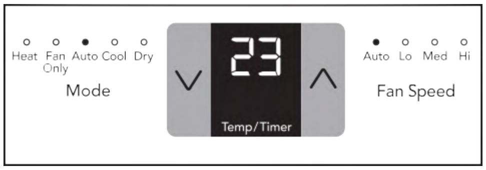
Note: This feature can be used with any combination of FAN Speeds (Low speed only on 115V models), Timer, or Sleep Modes. When in the "Heat" mode, the fan will run continuously while heat is needed. The temperature will automatically be maintained anywhere between 62 °F(17 °C) and 86 °F(30 °C). When the room set temperature is satisfied, the fan will cycle off and on to circulate and sample the room air. Eco feature is invalid in heating mode.

TO CHANGE TEMPERATURE DISPLAY:



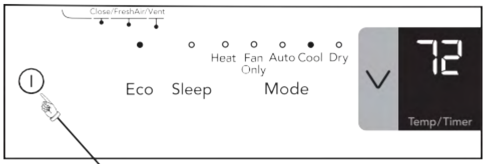
DO THIS:
PRESS AND HOLD THE UP/DOWN
BUTTONS SIMULTANEOUSLY
FOR 3 SECONDS

YOU WILL SEE:



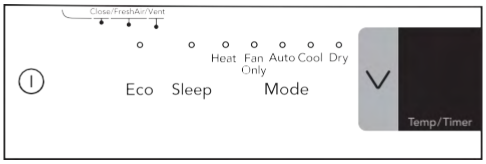
Your AC is capable of displaying temperature in degrees Fahrenheit or degrees Celsius.

TO TURN UNIT OFF:

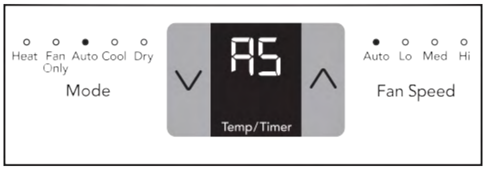


DO THIS:
PRESS
ON/OFF BUTTON

YOU WILL SEE:



FAULT CODES:



If the display reads "HS", "AS", "ES", "CS" or "OS", a sensor has failed. Contact your Authorized Frigidaire Service Center.

ADDITIONAL THINGS YOU SHOULD KNOW

Now that you have mastered the operating procedure, here are more features in your control that you should become familiar with.

NOTE

The "Cool" circuit has an automatic 3 minute time delayed start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.

- There is a 2-Second delay for the compressor shutting down when selecting FAN ONLY. This is to cover the possibility of having to roll through to select another mode.
- The control will maintain the set temperature within 2 degrees Fahrenheit, between 60°F and 90°F degrees.
- After a power outage, the unit will memorize the last setting and return the unit to the same setting once power is restored.
- The unit should be operated in an indoor temperature range of 60°F - 90°F (16°C - 32°C), and an outdoor temperature range of 64°F - 109°F (18°C - 43°C). Performance may be reduced outside of these operating temperatures.

Fresh Air Vent Control (on some models)

The Fresh Air Vent allows the air conditioner to:

1. Recirculate inside air - Vent Closed (see Fig. 1)
2. Draw fresh air into the room - Fresh Air (see Fig. 2)
3. Exchange air from the room - Vent Open (see Fig. 3)

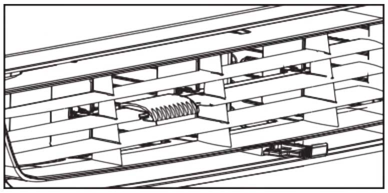


Figure 1 (VENT CLOSED)

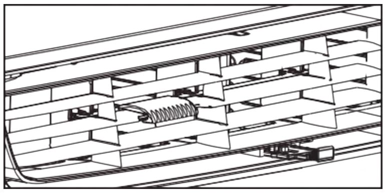


Figure 2 (FRESH AIR)

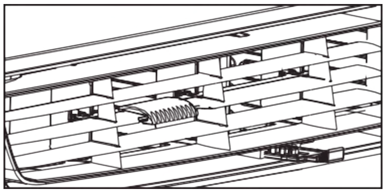


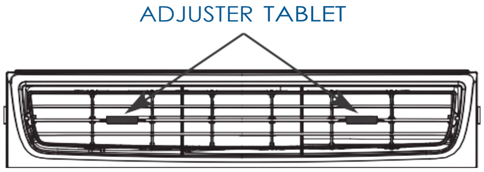
Figure 3 (VENT OPEN)

Air Directional Louvers

Air directional louvers control air flow direction. Your air conditioner has the louver type described below.

Slider Type

The louvers will allow you to direct the air flow Up or Down and Left or Right throughout the room as needed. Drag the adjuster tablet until the desired Left/Right direction is obtained. Pivot horizontal louvers until the desired Up/Down direction is obtained.



(6-WAY)

CARE AND CLEANING & ENERGY SAVING IDEAS

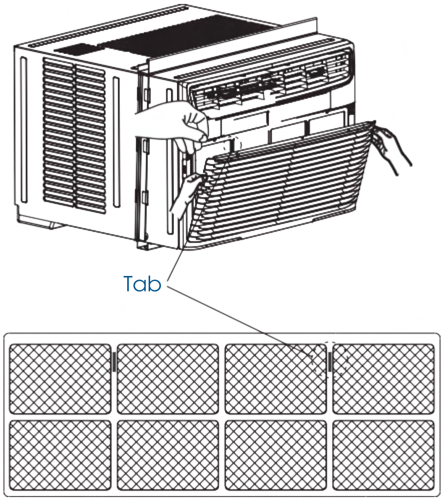
Clean your air conditioner occasionally to keep it looking new. **Be sure to unplug the unit before cleaning to prevent shock or fire hazards.**

Air Filter Cleaning

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.

- Push the vent handle to the Vent Closed position(where applicable).
- Open the front panel.
- Grasp the filter by the center and pull up and out.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse filter thoroughly. Gently shake excess water from the filter. Be sure filter is thoroughly dry before replacing.
- Or instead of washing, you may vacuum the filter clean.

NOTE: When replacing the air filter after cleaning, make sure the tabs on the air filter are on the upper part of filter, and placed outward as shown in the drawing on the left side.



Air Filter

Cabinet Cleaning

Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dishwashing detergent. Rinse thoroughly and wipe dry.

- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.

Winter Storage

If you plan to store the air conditioner during the winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton.

Energy Saving Ideas

- **Do not block air flow inside with blinds, curtains or furniture; or outside with shrubs, enclosures, or other buildings.**
- The capacity of the room air conditioner must fit the room size for efficient and satisfactory operation.
- Install the room air conditioner on the shady side of your home. A window that faces north is best because it is shaded most of the day.
- Close the fireplace damper, floor and wall registers so cool air does not escape up the chimney and into the duct work.
- Keep blinds and drapes in other windows closed during the sunniest part of the day.
- Clean the air filter as recommended in the section “Care and Cleaning”.
- Proper insulation and weather stripping in your home will help keep warm air out and cool air in.
- External house shading with trees, plants or awnings will help reduce the air conditioner’s work load.
- Operate heat producing appliances such as ranges, washers, dryers and dishwashers during the coolest part of the day.

Before calling for service, review this list. It may save you time and expense. This list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

OCCURRENCE	SOLUTION
Air conditioner will not operate.	• Wall plug disconnected. Push plug firmly into wall outlet. • Plug Current Device Tripped. Press the RESET button. • House fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker. • Control is OFF. Turn Control ON and set to desired setting.
Air from unit does not feel cold enough.	• Room temperature below 60°F (16°C). Cooling may not occur until room temperature rises above 60°F (16°C). • Temperature sensing element touching cold coil, located behind air filter. Straighten away from coil. • Reset to a lower temperature. • Compressor shut-off by changing modes. Wait approximately 3 minutes and listen for compressor to restart when set in the COOL mode.
Air conditioner cooling, but room is too warm - ice forming on cooling coil behind decorative front	• Outdoor temperature below 60 F° (16°C). To defrost the coil, set FAN ONLY mode. • Air filter may be dirty. Clean filter. Refer to Care and Cleaning section. To defrost, set to FAN ONLY mode. • Temperature is set too low for night-time cooling. To defrost the coil, set to FAN ONLY mode. Then, set temperature to a higher setting.
Air conditioner cooling, but room is too warm - NO ice forming on cooling coil behind decorative front.	• Dirty air filter - air restricted. Clean air filter. Refer to Care and Cleaning section. • Temperature is set too high. Set temperature to a lower setting. • Air directional louvers positioned improperly. Position louvers for better air distribution. • Front of unit is blocked by drapes, blinds, furniture, etc. - restricts air distribution. Clear blockage in front of unit. • Doors, windows, registers, etc. open - cool air escapes. Close doors, windows, registers, etc. • Unit recently turned on in hot room. Allow additional time to remove "stored heat" from walls, ceiling, floor and furniture.
Air conditioner turns on and off rapidly.	• Dirty air filter - air restricted. Clean air filter. • Outside temperature extremely hot. Set FAN speed to a faster setting to bring air through cooling coils more frequently.
Noise when unit is cooling.	• Air movement sound. This is normal. If too loud, set to lower FAN setting. • Window vibration - poor installation. Refer to installation instructions or check with installer.
Water dripping INSIDE when unit is cooling.	• Improper installation. Tilt air conditioner slightly to the outside to allow water drainage. Refer to installation instructions or check with installer.

OCCURRENCE	SOLUTION
Water dripping OUTSIDE when unit is cooling.	• Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.
Remote Sensing Deactivating Prematurely (some models).	• Remote control not located within range. Place remote control within 20 feet & 120° radius of the front of the unit. • Remote control signal obstructed. Remove obstruction.
Room too cold.	• Set temperature too low. Increase set temperature. • Remote Sensing activated (on some models) and remote control located in Hot Spot - Relocate remote control or deactivate remote sensing.

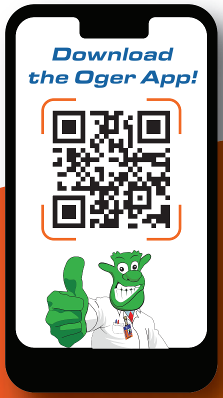
Generator Connection Guide

Certified or Designated Electrician Required

1. Read data plate or label on container for power requirements.
2. Acquire generator that meets supply demands. Recommended power is listed on next page. Make sure to use data to your containers model.
3. Acquire 3' female generator cord provided with container. (female connector and bare end) ***DO NOT CONNECT***, set aside.
1. After acquiring the correct generator use the following steps.
   - Set generator to 120/208 3PH.
   - Turn generator on.
   - Use a voltmeter to locate short leg. Short leg is 120V neutral to line.
   - Use ground or neutral for lead #1.
   - With the second lead, place on L1, L2, L3 to determine the two short legs (120V) and high leg (208V).
   - Short leg will read 110-120V (ground or neutral – L?)
   - High leg will read 208-220V (ground or neutral -L?)
   - You will use the 2 short legs ***ONLY***; high leg will be eliminated from use. When using 3 phase generators.
   - Test the two legs with one lead on each leg, combined voltage should be 230- 240V.
   - If the voltage is not 230-240V, adjust voltage on generator.

5. Once the voltage is set to listed requirements, turn off the generator.
6. Wire female generator cord to generator using previously identified legs.
   - Green to ground, White to neutral, Black to short leg 1, Red to short leg 2
7. Make sure wires are secured, then turn on generator.
8. Test voltage again.
   - Ground/ Neutral to L? = 120
   - L? to L? (short legs) = 230-240V
9. Make sure ALL circuit breakers are off in container.
10. Locate 27' cord provided with container.
11. Connect container to generator using cord.
12. Turn on 100amp circuit breaker.
13. Turn on the remaining circuit breakers one by one.
14. You are ready to operate.

Our equipment highest voltage is 240V,* ***NEVER EXCEED* *240V on combined legs**



Certified or Designated Electrician Required

Battery/ Office Container Generator Recommended

AP#	1 Phase	3 Phase	Max Voltage
AP104016	15KW	20KW	120/240
AP1000096A	15KW	20KW	120/240

Nitrogen Container Generator Recommended

AP#	1 Phase	3 Phase	Max Voltage
AP1001250	20KW	30KW	120/240

Motor Pool Container Generator Recommended

AP#	1 Phase	3 Phase	Max Voltage
AP1000097A	15KW	20KW	120/240

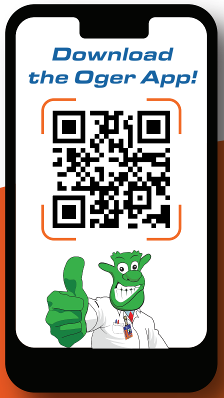
Max Voltage on each leg should NOT EXCEED 120V.

- *When using a 3-phase generator, high leg (208V) will NOT be used, ONLY both short legs*
- *(120V max)*

**Short leg is 120V read on voltage meter when you put one lead on neutral and one lead on a line.*

- *You can use a higher KW generator BUT note you will wet stack.*

**Wet Stack- Unused diesel fuel, accumulated moisture and carbon particles gather in the exhaust of your generator.*



American Patriot proudly offers a minimum 1-year parts and service warranty on every product that we sell. We also offer multiple items in our catalog that exceed the standard 1-year warranty. This ranges anywhere from 2-5 year durations. American Patriot upholds customer satisfaction to the highest priority and backs every item sold. Even in the event that the items are out of their warranty period or not covered, American Patriot will assess the customer needs on a case-by-case basis in order to attain the most effective option for the customer. We have worked with customers in the past that have had various limitations such as inaccessible funds for repair or replacement, inability to ship items, or even just troubleshooting assistance.

At American Patriot we pride ourselves in having customers that buy from us during their entire military career. We do this by going above and beyond just meeting the needs of our customers - including our trouble-free warranty.

Rachel Go

Rachel Gorken, Owner/President

★★★
100%
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GUARANTEED