OWNER'S MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

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

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WARNING: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

SAFETY PRECAUTIONS

The Safety Precautions are intended to prevent unexpected danger or harm by helping the user to use the product safely and for its intended purpose.

⚠ WARNING

If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

⚠ CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.

⚠ WARNING

Safety precaution is warranted by only model installed products for waterproof.

Precautions for the AC Adapter and Power

⚠ WARNING

- Use only the power cord or AC adapter provided or approved by LG Electronics, Inc. If you use another power cord, make sure that it is certified by the national standards. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized service center for a replacement.
- Operate the display only from a power source(i.e. voltage) indicated in the product specification.
  - Otherwise the product can be damaged, fire can occur or you may be electrocuted. If you are not sure what type of power supply you have, consult a certified installation company.
- Make sure the power cord connect to a properly grounded outlet.
  - If you do not you may be electrocuted or injured or the product can be damaged.
- Insert the power plug or AC adapter firmly so it cannot come loose.
  - Poor connection may cause a fire or electric shock.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
  - It can cause electric shock.
- Be careful not to step or place heavy objects (electronic appliances, clothing, etc.) on the power cord or AC adapter. Additionally, do not bend or pull out the power cord or AC adapter with excessive force.
  - Damaged power cords may cause a fire or electric shock.
- Do not connect power cord or AC adapter damaged with sharp objects to power outlet.
  - You may be electrocuted.
- Do not insert a conductor (like a metal chopstick) into one end of the power cord while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cord right after unplugged.
  - You may be electrocuted.
- Do not use with a multi-outlet connected by many electrical product and heating devices. Use an exclusive multi-outlet with a grounding terminal.
  - A fire can break out due to overheating.

- If water or any foreign substance goes inside the product, disconnect the power cord immediately and contact the service center.
  - Otherwise, this may cause a fire or electric shock due to damage to the product.
- Keep the power cord or AC adapter away from any heating devices.
  - The cord coating may melt and cause fire or electric shock.
- Never disassemble, repair or modify the power cord or AC adapter.
  - This may cause a fire or electric shock.
- Please make sure the main power cutoff device is power cord and the product is installed near the wall outlet that is easily accessible.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.
- Power consumption will be '0' only when the power plug is unplugged.
- Use an appliance coupler as a disconnect device.

⚠ CAUTION

- If the outlet, pins of the power plug, or AC adapter is covered with dust, be sure wipe and keep clean.
  - Overheating due to layers of dust may cause a fire or electric shock.
- If the outlet, pins of the power plug, or AC adapter is covered with water, be sure wipe and keep clean. Additionally, Do not touch the power plug or AC adapter with wet hands.
  - This may cause an electric shock.
- Do not turn the product on or off by plugging in or unplugging the power plug from the power outlet. It means do not use the power plug as a switch.
  - This may cause an electric shock or product malfunction.
- Do not unplug the power cord while the product is in use.
  - Electrical shock can damage the product.

Precautions for Moving the Product

WARNING

- Contact the service center before moving the product.
  - It may cause electric shock and damage the product.
- Make sure the product is turned off, unplugged, and all cables have been removed before the product is moved.
  - You may be electrocuted or the product can be damaged.
- When moving the product, Do not shock the product and impact on the front panel of the product.
  - You may be electrocuted or the product can be damaged.
- Comply with the number of people according to weight of product. (Under 25 kg per person, use the equipment when exceed 100 kg)
  - If use the damaged product again, contact the service center because it can cause electric shock or fire.
- Do not hold it upside down while holding only the stand. (It is for stand supported models only.)
  - This may cause stand warping, panel damage and other types of product damage.

CAUTION

- Do not dispose the product-packing box. It may be used put the product in the box when carrying it.

Precautions for Installing the Product

⚠ WARNING

- Contact the service center before installing the product.
  - It can cause electric shock and damage the product.
- Do not drop an object on or impact on the product. Keep out of reach of children and do not place toys or objects near the product to prevent throwing things on the product screen.
  - It can cause injury to human, problem to product and damage the display.
- Do not put heavy objects on, or hang from, the product.
  - If the product collapses or is dropped, you may be injured.
- Do not touch the surface of product to overheat.
  - It can cause injury to human.
- Install the product firmly fixed on a floor, wall, etc. to prepare against external impact such as wind and earthquake.
  - You must refer to the manual provided.
- Prevent Children from climbing or hanging on the product.
  - If the product collapses or is dropped, you may be injured.
- Do not install it where there are heating devices such as electrical heaters or lighting equipment.
  - Fire, electrical shock, malfunction may occur.
- Do not install this product by yourself as you may injure yourself or cause damage to product. Please contact service engineer authorized by service center.
- Do not install this product on a wall if it could be exposed to oil or oil mist.
  - This may damage the product and cause it to fall.
- Do not leave the power or signal cable, etc. on the pathway.
  - This could cause a trip or fall, which can be caused electrical shock, fire, product breakdown, or injury.
- Do not let the product drop when connecting it to an external device connected with a short cable.
  - This may cause injury and damage to the product.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord and contact the service center.
  - If you continue to use without taking proper measures, electrical shock or fire can occur.
- Install the product in a dry place where it is not near dust and water. Avoid high temperatures and humidity.
  - This may cause electrical shock, fire or product damage.
- Safely install the product in a place that can hold the weight of the product.
  - A lack of strength may cause the product to fall.
- Take a comfortable and natural position to relax the muscles when working with a product.

⚠ CAUTION

- Install the product where no Electromagnetic Interference occurs.
- If you install the product in a place that does not meet the recommended conditions, this may cause serious damage to the product's picture quality, life cycle, and appearance. Please check with service engineer before installing. Please do not install the product in places such as where there is an abundance of fine dust or oil mist, chemical substances are used, the temperature is very high or low, the humidity is very high.
- Make sure the product is well ventilated by Installing at a distance from the wall.
  - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat buildup.
- Do not cover the product with tablecloth or curtain or other material (eg. plastic) while plugged in to block the ventilation hole of the product.
  - The product can be deformed or fire can break out due to overheating inside the product.
- Do not install the product in an area with poor ventilation (e.g. on a bookshelf, in a closet) or outside and avoid placing on cushions or carpets.
  - The product could catch fire due to overheating inside the product.
- Install the product on a flat and stable place that is large enough to support the product.
  - If the product is dropped, you may be injured or the product may be broken.
- When installing the product on a shelf or cabinet, make sure that the bottom end of the product is not protruding forward.
  - The product may fall due to unbalanced center of gravity, which may cause personal injury or damage to the product. Be sure to use cabinets or shelves that fit your product.
- A readily accessible disconnect device shall be incorporated external to the product.
- Set to [Screen Off & Backlight On] when installing outdoors.
  - Enable the outdoor mode to reduce the risk of the internal humidity and condensation.
- When operating in below zero temperature, the enclosure may not work for up to one hour to raise the internal temperature of the enclosure.
  - The components complied with the requirements of IEC 61643-series shall be installed internal or external to this product.

Precautions for Cleaning the Product

⚠ WARNING

- Keep the product clean at all times.
  - If you don't clean the unit for a long time and it becomes covered in dust, it can cause fire or product damage.
- When you need to clean the inside of the product, you must contact the service center.
  - Otherwise, cleaning without support may cause a fire, electric shock, or damage to the product.
- When cleaning the product, unplug the power cord and wipe gently with a soft cloth to prevent scratching.
  - An electric shock may occur or damage to the screen as get a scratch.
- When you want to clean the front frame, spray water onto a soft cloth 2 to 4 times and wipe in one direction only.
  - Too much moisture may cause staining.

⚠ CAUTION

- When cleaning the product or the screen, unplug the power cord and wipe it gently with a soft cloth. Do not spray water or other liquids directly on the product. Especially, do not clean your product with chemicals including glass cleaner, any type of air freshener, insecticide, lubricants, wax (car, industrial), abrasive, thinner, benzene, alcohol, etc., which can damage the product or its panel.
  - This may result in fire, electric shock or product damage (deformation, corrosion or breakage).

Precautions for Using the Product

⚠ WARNING

- Do not use the product in any environment with excessively high temperatures or humidity.
- If you use the product for a long period of time, take a rest from time to time to protect your vision.
  - Extended viewing could result in impaired vision.
- Listening at high volume or using for a long time can cause damage to your hearing.
- In the event that liquid or a foreign object falls into the product, please switch it off and unplug it from the wall outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- In the event that no image appears on the screen or no sound is heard, stop using the product. Switch it off immediately, unplug it from the power outlet and contact the service center.
  - Otherwise, the product may cause fire or electric shock.
- Do not drop an object or impact on the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- If you can smell smoke or other odors or hear a strange sound, unplug the power cord and contact the service center.
  - If you continue to use the product without taking proper measures, it may cause electrical shock or fire.
- Do not attempt to disassemble, repair or modify the product yourself. Please contact service center if you need to repair it.
  - Fire or electric shock can occur.
- Do not place objects filled with liquids, such as vases, cups, etc. on over of the product to prevent liquid from entering the product.
  - Failure to do so may result in fire, electric shock, malfunction or deformation.
- Do not push hard on or scratch the product's surface with your hands or sharp objects, such as nails, pencils or pens. Do not shock or scratch the front and sides of the screen with metallic objects.
  - This may damage the products and cause it to malfunction.
- Do not touch the product if it has been exposed to sunlight or an intense light because it could be hot.

- Do not use high voltage electrical goods near the product (e.g., a bug zapper).
  - This may result in product malfunction if it receives an electrical shock.
- If there is a gas leak, do not touch the outlet, and open the windows for ventilation.
  - Otherwise, the product may cause fire or electric shock.
- If you dropped the product or the case is broken, turn off the product and unplug the power cord.
  - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- Keep small accessories out of the reach of children.
  - If a child swallows it, consult a doctor immediately.
- Keep out of reach of children from the product. Also, do not throw toys or objects to the product or screen.
  - It can cause injury to human, problem to product and damage the screen.
- All the power sources must be disconnected by removing the power cables to remove all power from the unit.

⚠ CAUTION

- This panel is an advanced product that contains millions of pixels. You may occasionally see pixel spots when viewing the screen. Since these deactivated pixels are not a defect, the performance and reliability of the product is not affected.
- Do not put or store inflammable substances near the product.
  - There is a danger of explosion or fire.
- Keep the proper distance from the product.
  - It can cause damage to your vision if you look at the product too closely.
- Set the appropriate resolution and frequency by products.
  - It can cause damage to your vision.
- Take a regular break when working with the product for a long time.

Precautions for Using the Remote control

WARNING

- Avoid places with high humidity.
  - It may cause electrical shock or damage the product.
- Do not expose batteries to excessive heat, such as direct sunlight, open fireplace, and electric heaters.
  - It may cause fire and you may be injured.
- Make sure that children do not swallow the remote control batteries when you replace them. Keep batteries out of reach of children.
  - If a child swallows a battery, consult a doctor immediately.
- Do not dispose of batteries in a fire.
  - Please dispose batteries at a local recycling center or a retail store that handles batteries.
- Used batteries, which include rechargeable batteries, should be recycled separately from waste.
  - Please dispose used batteries and rechargeable batteries at a local recycling center or a retail store that handles batteries.

CAUTION

- Do not short circuit and disassemble of batteries.
  - It may cause electrical shock or fire.
- The remote control may not function properly in sunlight or under a strong lamp. Move the product if it is being used in these conditions.
- Check if there is any obstacle between the product and the remote control.
- Do not mix new batteries with old batteries.
  - Overheating or leaking batteries may cause fire or electric shock.
- Only use the specified type of battery. Do not insert batteries that are not rechargeable into the charger.
  - Overheating or leaking batteries may cause fire or electric shock.

Precautions for Experiencing Image Retention

- Displaying a still image for a prolonged period of time may cause damage to the screen, resulting in image retention. Most third-party products have the same issue. The resulting damage is not covered by the product warranty.
  - Use a screen saver when using the monitor for a prolonged period of time.

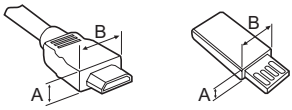
Product Disposal

- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

ASSEMBLY AND PREPARATION

⚠ CAUTION

- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of counterfeit components.
- When installing the product, please cover the interface completely. Also, if the cables are not being used, you must use the square rubber gasket in its place.
  - Failure to do so may result in problems with the waterproof and dustproof performance, which is not warranted.
- The optimal dimentions for the HDMI cable/ USB device connector are shown below.



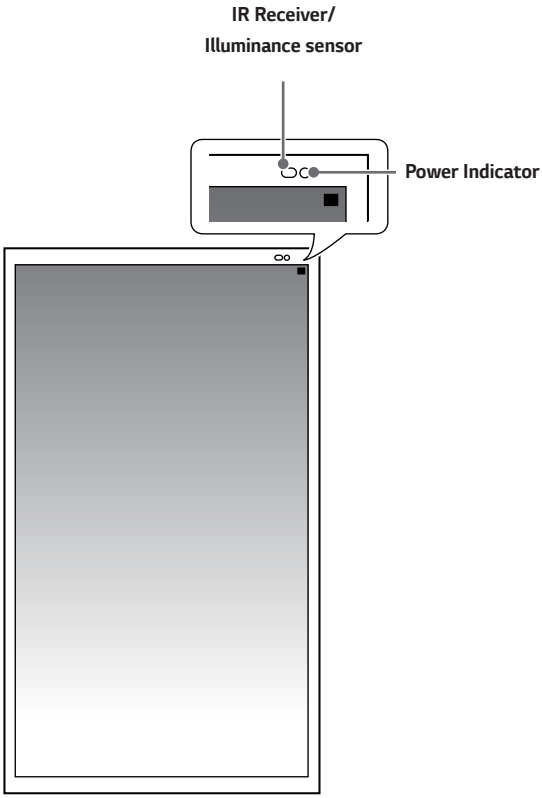
* A ≦ 10 mm
* B ≦ 18 mm

NOTE

- The accessories provided with your product may vary depending on the model or region.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.
- SuperSign Software & Manual
  - Downloading from the LG Electronics website.
  - Visit the LG Electronics website (*http://partner.lge.com*) and download the latest software for your model.
- The warranty will not cover any damage caused by using the product in an excessively dusty environment.
- If the product is in a case, keep the pressure below 0.5 bar when washing with water.

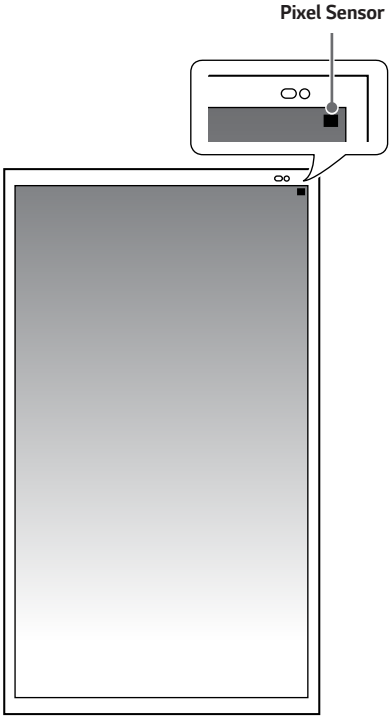
Product Contents

The image may be different according to the model.



- **IR Receiver**: This is where the unit receives signals from the remote control.
- **Illuminance sensor**: Adjusts the screen brightness by measuring the amount of light.
- **Power Indicator**: This Indicator lights up red when the display operates normally (on mode). If the display is in sleep mode (in Power Saving mode), this indicator changes color to amber.

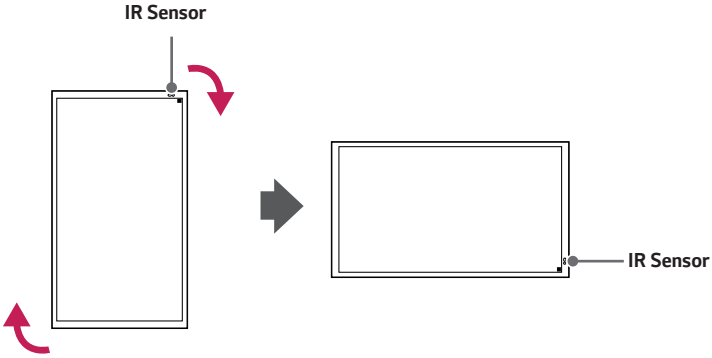
Pixel Sensor



- **Pixel Sensor**: Measures the RGB of pixels in that area.

Installing in Landscape Orientation

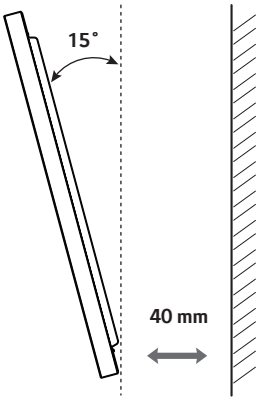
To install in landscape orientation, rotate the screen clockwise 90 degrees while facing it from the front.



Installing the Product in a Tilted Position

You can install the product by tilting it horizontally or vertically.

You can tilt the product up to 15 degrees for installation, while the product should be spaced at least 40 mm apart from the wall.



Installation Requirements

Air flow direction

- For cooling purposes, a fan is used to intake air through the inlet and hot air is discharged through the outlet.

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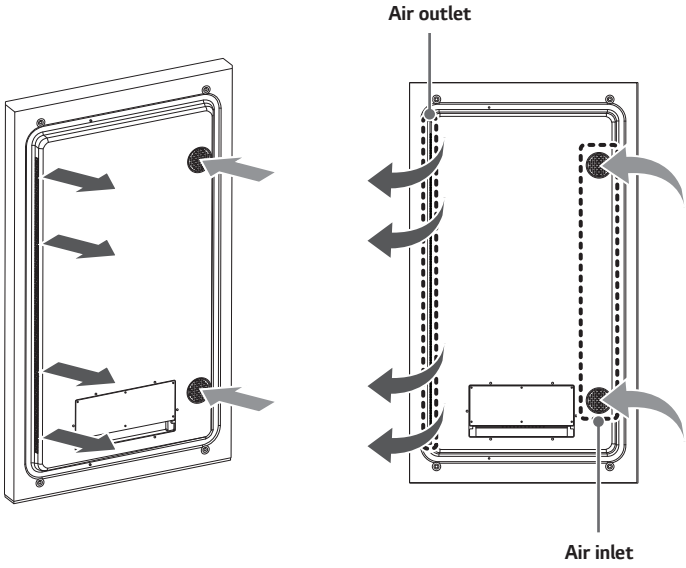

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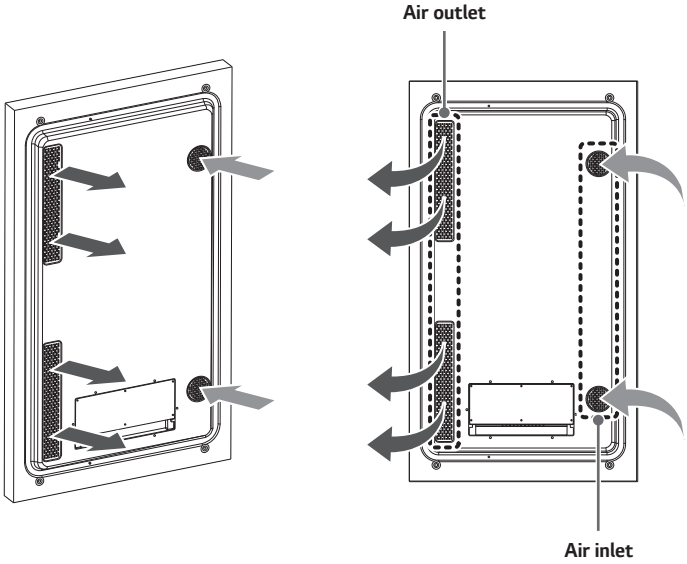


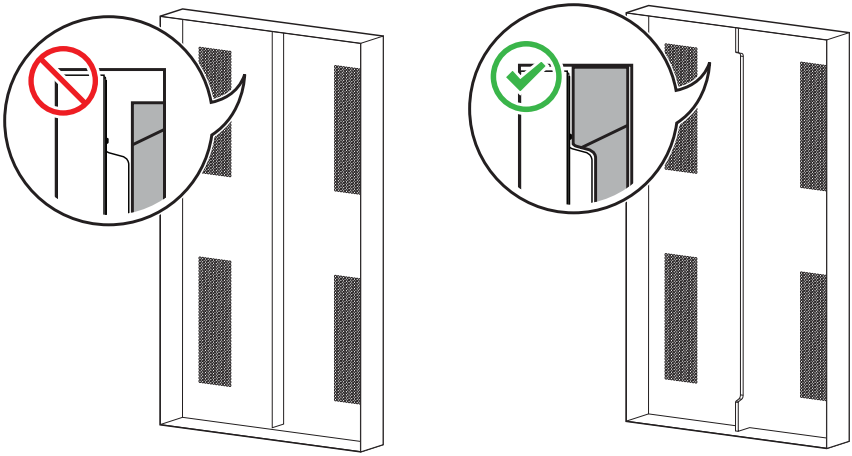
NOTE

- Do not block the ventilation openings on the enclosure or place objects near them.

Enclosure unit design

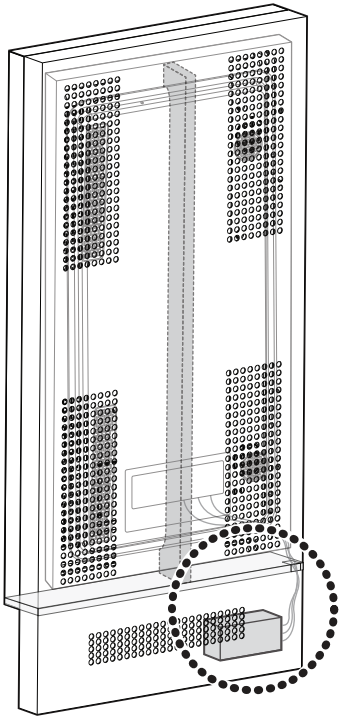
Partition design guide

- When making a case for the enclosure, make sure to separate the inlet and outlet with a partition.
- Place sponge pads, etc., between the partition and the enclosure to completely block air flow.



Partitions when installing with an optional media player

- When installing a media player as an external component, make sure it is separated from the enclosure.



NOTE

- There should be no gap between the media player and outdoor unit; only allow cables through the partition.
- The optional media player is an additional source of heat and the increased temperature inside the enclosure unit may cause the outdoor unit to malfunction.
  - This malfunction occurring in this manner will not be covered by the warranty.
- If the partition is not applied, air from the outlet may enter the unit again through the inlet.
  - This may reduce the heat dissipation performance of the product and is not warranted in this case.

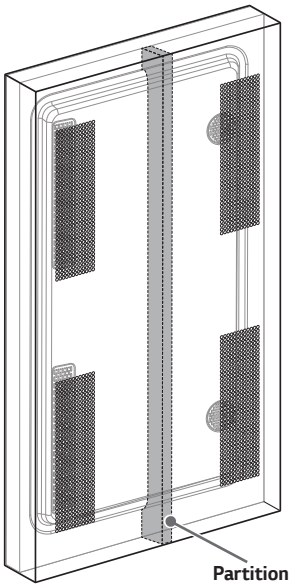
Inlet and outlet designs

- The aperture must be at least 50 % of the total aperture area.

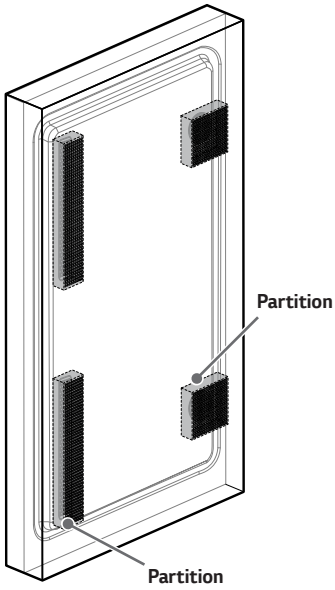
Single enclosure unit

- Make sure to separate the inlet and outlet to prevent the air around one from entering the other.

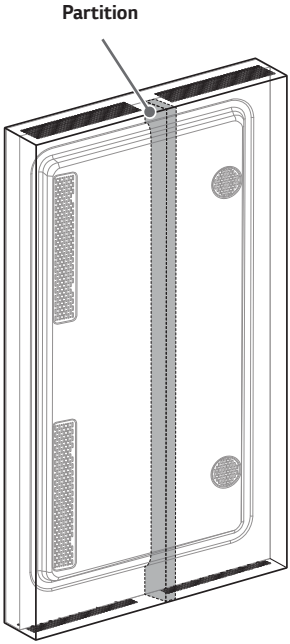
Case 1



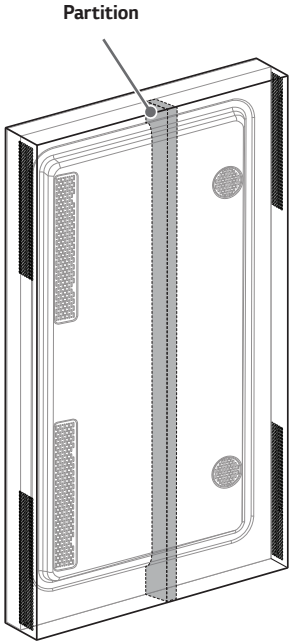
Case 2



Case 3



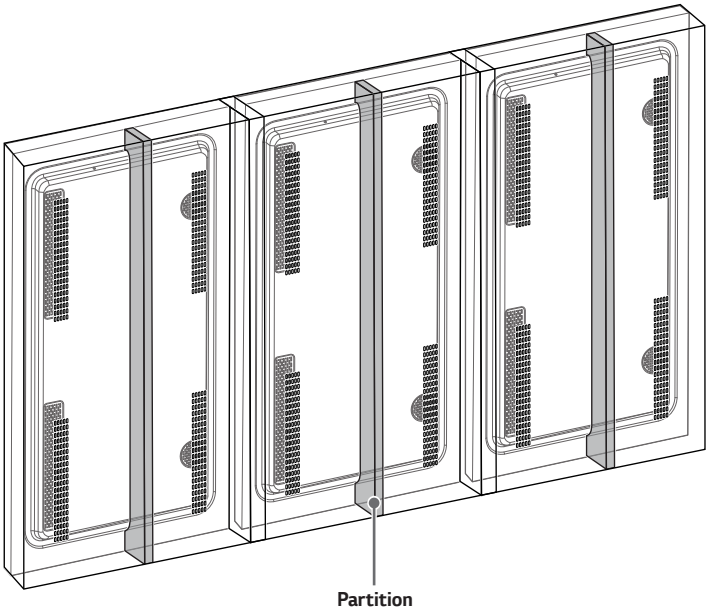
Case 4



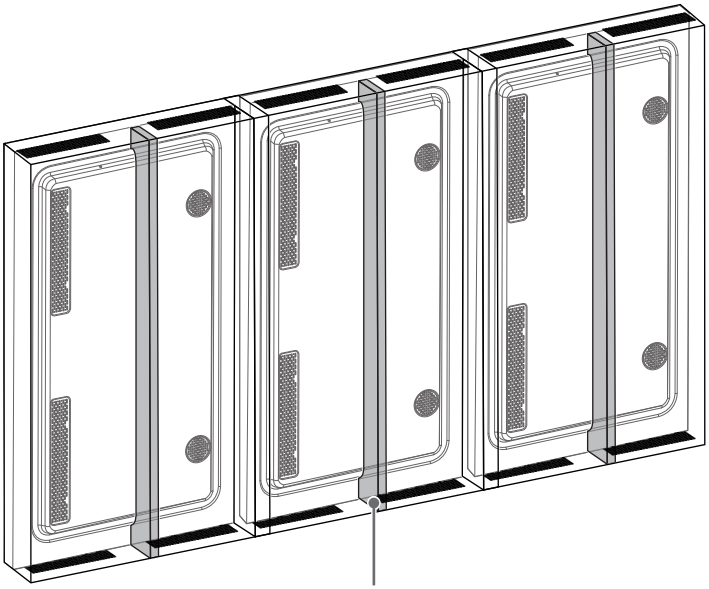
1 x N one-side enclosure unit

- When installing more than one product together, make sure to separate the inlet and outlet to prevent the air around one from entering another.

Case 1

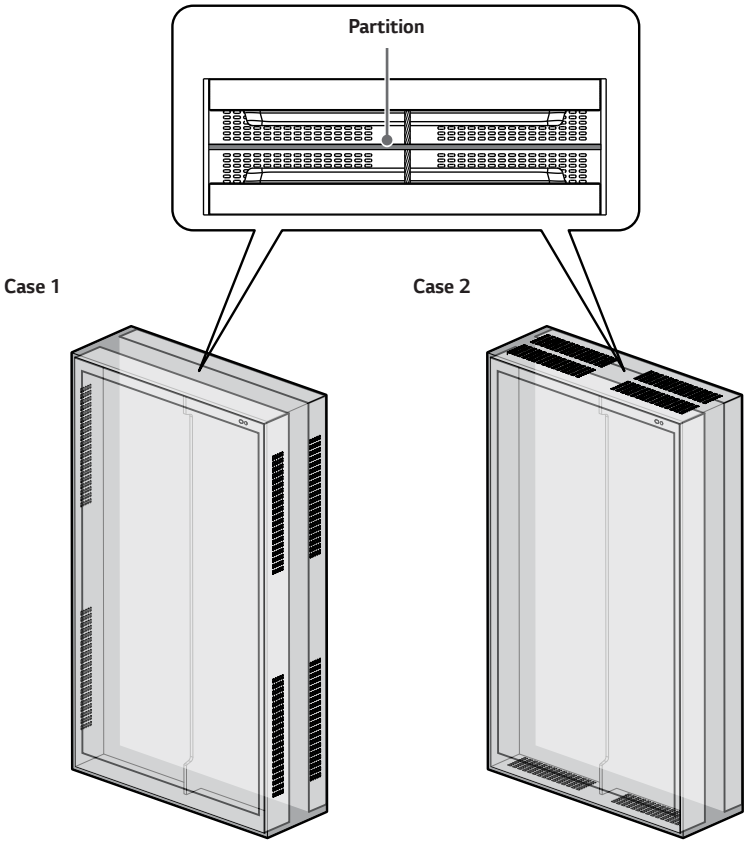


Case 2



Double-sided enclosure unit

- When installing products in a back-to-back configuration, make sure to separate the inlet and the outlet to prevent the air around one from entering another.
- When installing products in a back-to-back configuration, make sure the ventilation openings are on the bottom, top or sides.
- The thickness of material that is installed between two products is not included in the distance. (Distance between products: 80 mm).



⚠ CAUTION

- When designing inlet and outlet, the following opening area shall be satisfied.
  - Failure to do so may result in product problems, which are not warranted.
- If a separate case is installed on the vessel, design it with the recommended opening area and aperture. Failure to meet the recommended aperture plane and aperture ratio may cause the product to malfunction. In such cases, the warranty does not apply.

NOTE

- The partition should be in close contact with the case as well as with the enclosure when installed.
- It is recommended that the inlet and outlet be located at the same position as the enclosure.
- If possible, install ventilation openings around the inlet and outlet of the enclosure.
- If you install both sides or multiple units together, you must increase the opening area by the number of installed units.
- Aperture plane

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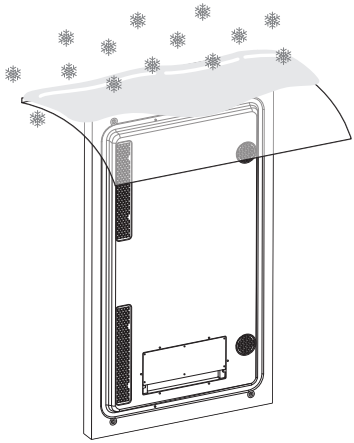
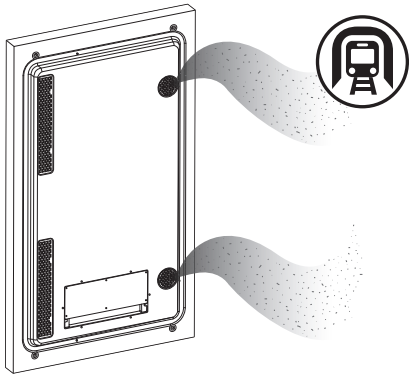
Air Inlet	8400 mm^2	8400 mm^2
Air Outlet	13200 mm^2	44000 mm^2

Surrounding Environment

- Do not allow the absorption of the product, snow, etc. to accumulate in the air inlet/outlet.
- Designed for use in dusty environments.



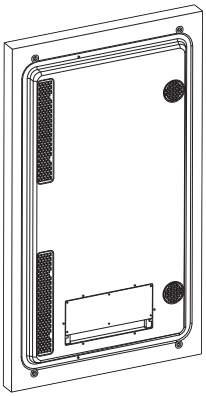


⚠ CAUTION

- Do not hang the enclosure on the ceiling or lay it on the floor.

Installing on a Wall

For proper ventilation, make sure the product is installed at least 100 mm away from the walls on every side. Consult a professional installation company near you for details on installation.



⚠ CAUTION

- Disconnect the power cord before moving or installing the monitor to avoid risk of electric shock.
- If you install the monitor on a ceiling or slanted wall, it may fall and result in injury. The product should be installed by a professional installation company specified by the retail store.
- Do not over tighten the screws as this may damage the monitor and void your warranty.
- Any damage or injuries caused by misuse or use of improper accessories are not covered by the warranty.

NOTE

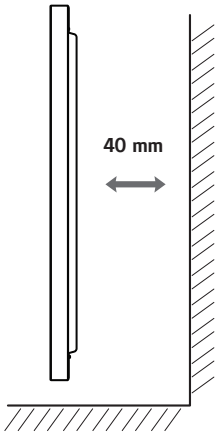
- Be sure to use the correct length.

Clearance for Wall Mounting

When wall mounting the product, install a partition that separates the air from the inlet and exhaust. Failure to do so may result in malfunctioning of the product and will not be covered under warranty.

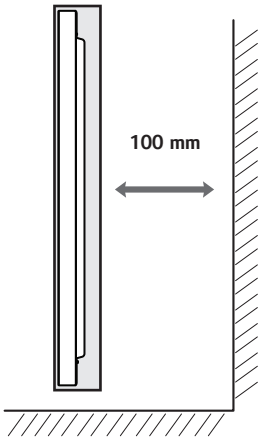
Installing the outdoor unit only

- When installing the enclosure close to the wall, a separation distance of at least 40 mm is required.
- Install a partition between the wall and the product to separate the inlet and exhaust air from mixing.



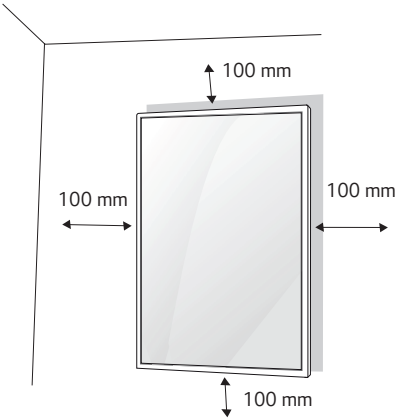
Installing with enclosure unit

- When using a separate external case and installing the enclosure close to the wall, a separation distance of at least 100 mm is required.
- Do not block the ventilation openings or place objects near them.



Clearance for Built-in Installation

Installing the outdoor unit only

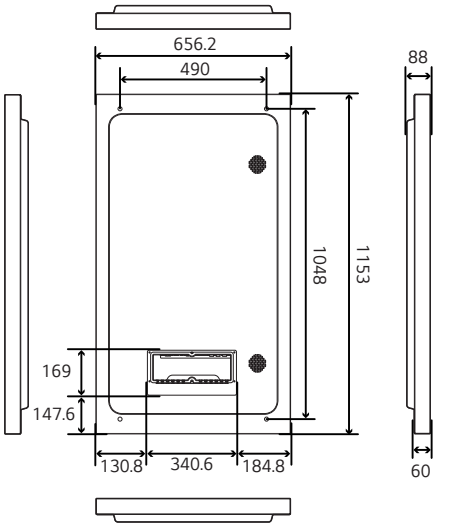
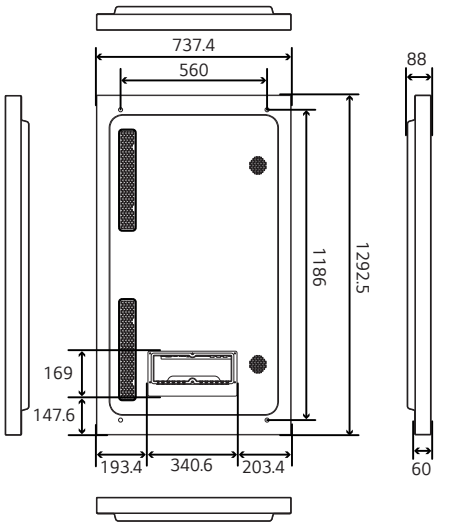


- For proper ventilation, make sure the product is installed at least 100 mm away from the walls on every side.
- Consult a professional installation company near you for details on installation.
- Make sure to separate intake air and exhaust air.

NOTE

- Failure to meet the recommended separation distance may cause the product to malfunction.

Fixing the Wall Mounting Screw Holes

Unit : mm	Unit : mm
	
32 kg	40 kg
49XE4F	**55XE4F**

- After removing the screw (M8) attached to the back of the product, it is possible to install it on a wall using a separate bracket and screw.
- Screw hole as both of side: M8, Torque 17 kgf • cm to 27 kgf • cm (Back side: 4 holes)

⚠ CAUTION

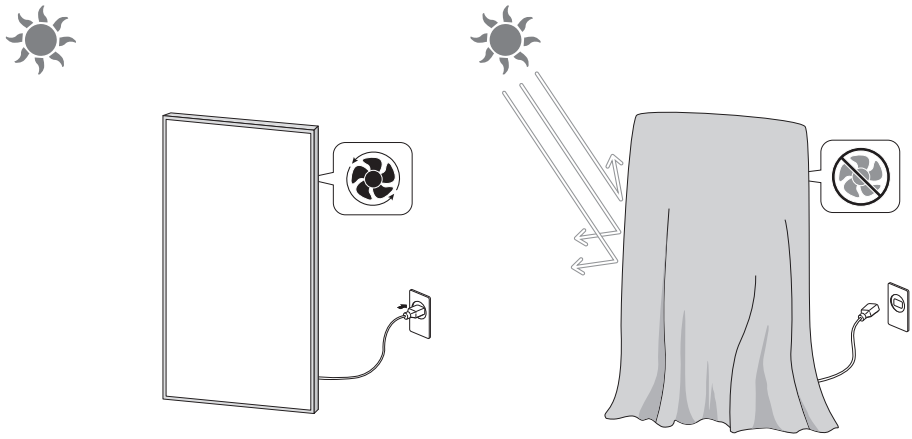
- Do not reuse the screw (M8) that is attached to the back of the product. Reuse may damage the product, which is not covered under warranty.
- Be sure to insert the appropriate size cable into the hole when installing the interface side cable.
  - Ø3.5 Hole: Ø3.5 ~ Ø4 Cable
  - Ø5 Hole: Ø5 ~ Ø5.5 Cable
  - Ø6 Hole: Ø6 ~ Ø6.5 Cable
  - Ø7 Hole: Ø7 ~ Ø7.5 Cable
  - Power cord: Power cord provided or Ø7 to Ø7.5 cable
- If cables above Ø7.5 are used, waterproof and dustproof performance may be problematic. In this case, It can't be guaranteed.

Safety and Precaution Guide for Installation

Direct Sunlight

- While powered off, make sure the device is not exposed to direct sunlight for a prolonged period.
  - Protect the display with cloth or a box when storing the device after it has been powered off.
  - This can prevent faults such as black spots, creases, and yellowing.
- After connecting the power, activate the [Screen Off & Backlight On] feature.
  - Turning the screen off can help prevent black spots, creases, yellowing, condensation, and malfunctions due to moisture.
  - For the [Screen Off & Backlight On] feature, please refer to the User Guide on our homepage.
  - At sub-zero temperatures, the display will be able to turn on after the internal temperature rises.

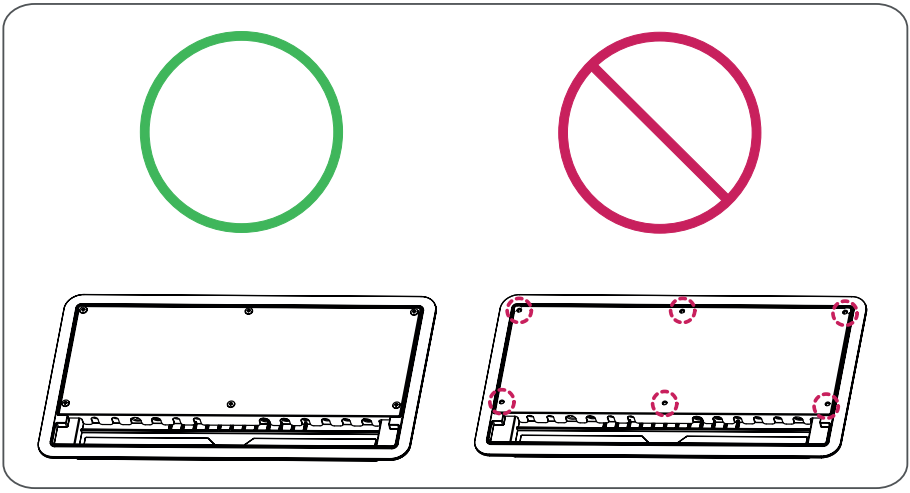
⚠CAUTION



Preventing Condensation

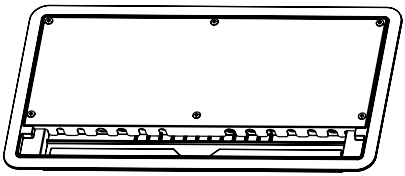
⚠ Caution

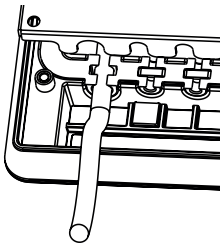
- Attaching Screws
  - Attach all of the interface cover and back cover screws of the product without omission.
  - If you fail to fasten any of the screws, moisture may enter the product and condensation may occur.



⚠ Caution

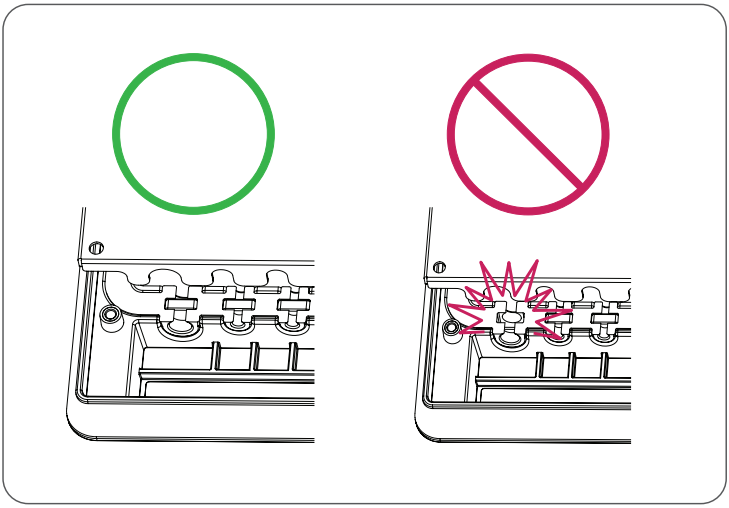
- Cabling
  - Insert the square rubber gasket into the cable insertion part without omission.
  - When using a cable, remove the square rubber gasket and insert the cable that matches the dimensions of the cable insertion part, ensuring there are no gaps.



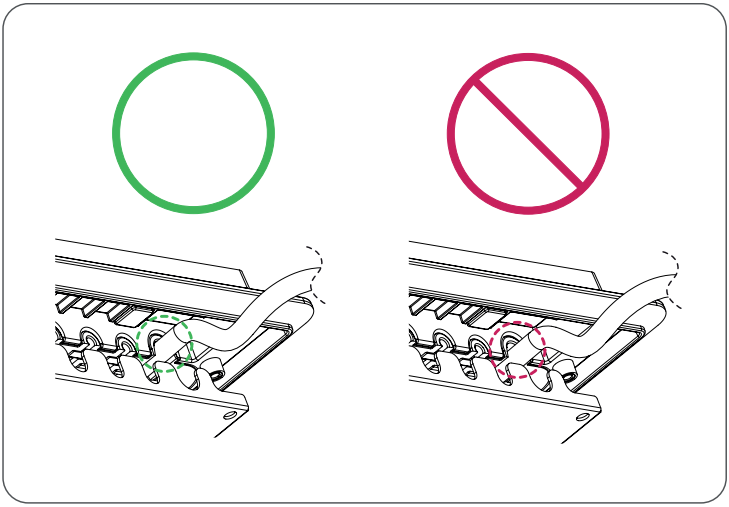


  - 7 Ø hole : For inserting 7~7.5 Ø cables
  - 6 Ø hole : For inserting 6~6.5 Ø cables
  - 5 Ø hole : For inserting 5~5.5 Ø cables
  - 3.5 Ø hole : For inserting 3.5~4 Ø cables

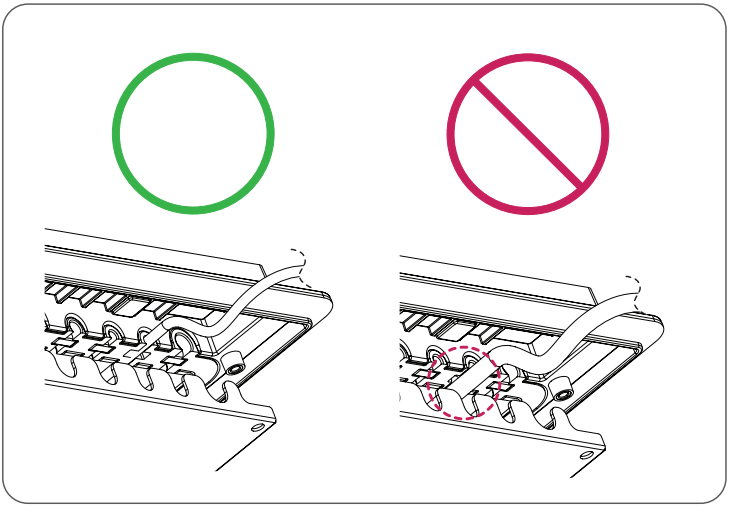
- Remove the square rubber gasket only where the cable is inserted.



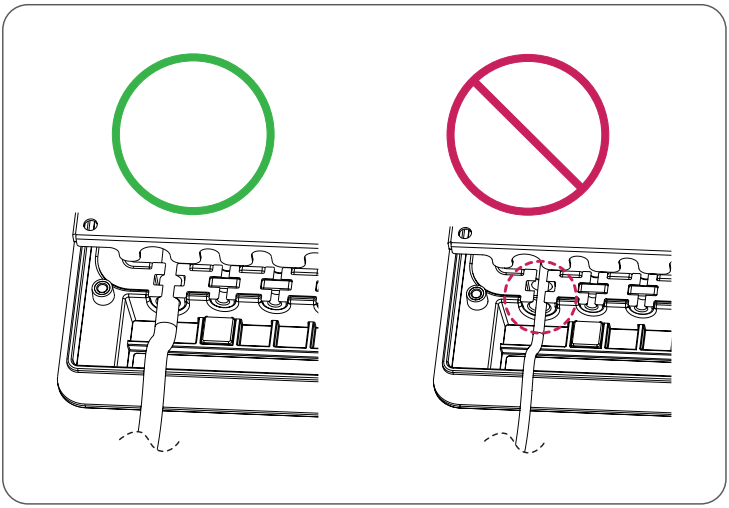
- Be sure to press the cable firmly so that there are no gaps from the cable being inserted.



- Use a cable that fits the size of the hole in the cable insert.
- If the cable used is too thick and creates a gap, moisture may enter.

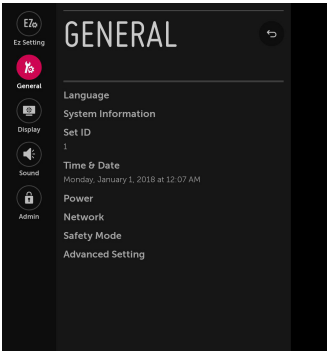


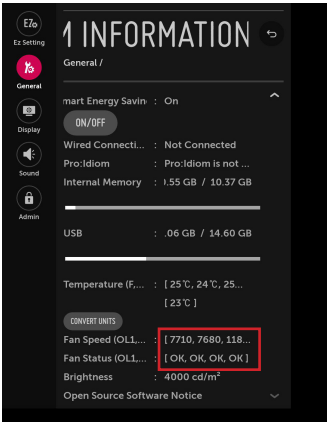
- Use a cable that fits the size of the hole in the cable insert.
- If the cable used is too thin and creates a gap, moisture may enter.



⚠ Caution

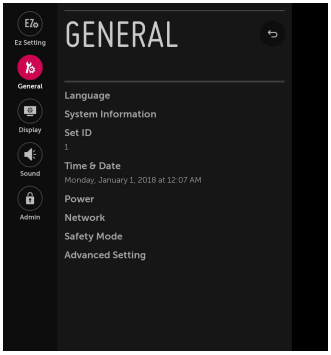
- [Fan Status]
  - Check whether the fan is operating normally in the [Fan Status] menu with the remote control.
  - ⚙ (Settings) → [General] → [System Information] → [Fan Status]

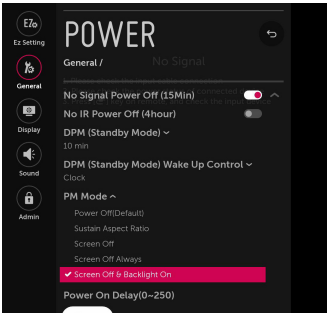




⚠ Caution

- [PM Mode]
  - Outdoor preference must be turned on to prevent condensation.
  - ⚙ (Settings) → [General] → [Power] → [PM Mode] → [Screen Off & Backlight On]



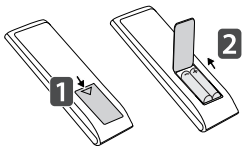


⚠ Caution

- Observe all precautions to prevent condensation. Otherwise, the product may have problems with condensation and waterproof performance, which will void the warranty.

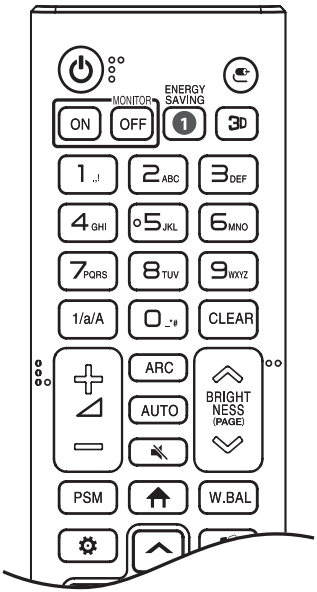
REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly. To install batteries, open the battery cover, place batteries (1.5 V AAA) matching ⊕ and ⊖ terminals to the labels inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.



⚠ CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- Be sure to point the remote control toward the remote control sensor on the monitor.
- Some features of the remote control may not be supported in certain models.
- The product's internal and external batteries should not be exposed to excessive heat such as direct sunlight, fire, or the like.



⏻ **(POWER)** Turns the monitor on or off.

MONITOR ON Turns the monitor on.

MONITOR OFF Turns the monitor off.

1 **ENERGY SAVING** Adjusts the brightness of the picture to reduce energy consumption.

(INPUT) Selects the input mode.

3D The function is not supported in this model.

1/a/A Toggles between numerical and alphabetical.

Number and Alphabet buttons Enters numerical or alphabetical characters depending upon the setting.

CLEAR Deletes the entered numerical or alphabetical character.

Volume Up/Down Button Adjusts the volume.

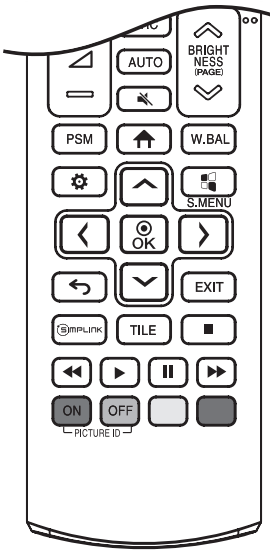
ARC Selects the Aspect Ratio mode.

AUTO Automatically adjusts picture position and minimizes image instability (available for RGB input only).

(MUTE) Mutes all sounds.

BRIGHTNESS Adjusts the brightness of the display.

PAGE The function is not supported in this model.



PSM Selects the Picture Mode.

(HOME) Activates the Launcher.

W.BAL Enters the White Balance menu.

(SETTINGS) Accesses the main menus or saves your input and exit menus.

S.MENU SuperSign menu key.

Navigation Buttons Scrolls through menus or options.

OK Selects menus or options and confirms your input.

(BACK) Allows you to move back one step in the user interaction function.

EXIT Quit all OSD tasks and applications.

SIMPLINK Allows you to control various multimedia devices to enjoy multimedia simply by using the remote control through the SimpLink menu.

TILE Selects the TILE mode.

PICTURE ID ON/OFF When the Picture ID number matches the Set ID number, you can control whichever monitor you want in multi-display format.

(USB Menu Control Buttons) Controls media playback.

MAKING CONNECTIONS

You can connect various external devices to your monitor. Change the input mode and select the external device you want to connect.

For more information about external device connections, see the user manual provided with each device.

Connecting to a PC

Some of the cables are not provided.

This monitor supports the Plug and Play* feature.

* Plug and Play: a feature that enables a PC to recognize devices attached by the user without device configuration or user intervention when powering up.

External Device Connection

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

Some of the cables are not provided. For the best picture and sound quality, connecting external devices to your monitor using HDMI cables is recommended.

NOTE

- For the best image quality, using the monitor with HDMI connection is recommended.
- To comply with the specifications of the product, use a shielded interface cable with ferrite core.
- If you turn the monitor on when the set is cold, the screen may flicker. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.
- Use a High Speed HDMI®/™ cable (shorter than 3 meters).
- 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

- If you cannot hear any sound in HDMI mode please check your PC settings. Some PCs require you to manually change the default audio output to HDMI.
- If you want to use HDMI-PC mode, you must set your PC/DTV to PC mode.
- You may experience compatibility issues if you use HDMI-PC mode.
- Make sure the power cable is disconnected.
- If you connect a gaming device to the monitor, use the cable provided with the gaming device.
- High Speed HDMI®/™ cables transmit a HD signal up to 1080p and higher.
- If you set the tile mode using HDMI, you will not be able to watch HDCP-encrypted content.
- If the signal cable between the product and your PC is too long, make sure to use the Booster or optical cable.
- DP Cable - Use a DP cable that is certified to DP 1.1a standard or higher.

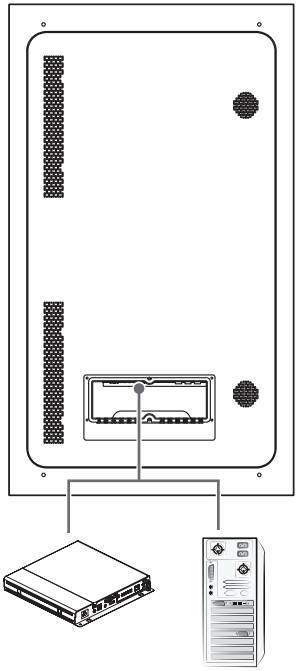
⚠ CAUTION

- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for an extended period of time as this may result in a temporary distortion of the screen.
- Avoid displaying static images on the screen for a long period of time to prevent image burn. Use a screensaver if possible.
- A wireless communication device near your monitor can affect the image.

When Using the HDBaseT

- To comply with the specifications of the product, use a CAT.6 FTP cable.
- If you do not use a CAT.6 FTP cable, the screen may not display or a connection error may occur.
- CAT.6 FTP can be used up to 100 m.
- CAT.5E lower rating is not supported HDBaseT. CAT.5E supports 70 m.
- If CAT.5E cable is used, the cable should not be bent or rolled, it should be straight.
- HDBaseT cables should not touch the power 110 V / 220 V cables. It should not be in the water.
- Depending on the HDBaseT transmitting device, the screen of external devices may not be displayed.

When Installing a Media Player/PC Externally



NOTE

- If you set the tile mode using HDMI, you will not be able to watch HDCP-encrypted content.
- If the signal cable between the product and your PC is too long, make sure to use the Booster or optical cable.
- DP Cable - Use a DP cable that is certified to DP 1.1a standard or higher.
- When installing a media player/PC externally, you can only connect HDMI IN, USB 2.0 IN and LAN IN.

When Installing the HDBaseT Cable

The HDBaseT CABLE Install

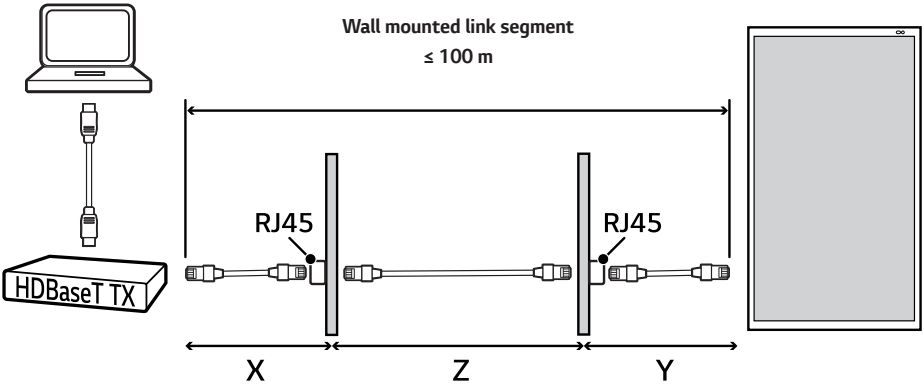
- LAN cables are fairly resilient. Yet, any rough handling, such as tight tie wraps, clamping or stapling can damage the cable, compromising performance or even preventing signal transmission. Tie cables loosely with appropriate cable wraps.
- Another important issue for cable integrity is the bend radius. Bend radius is the inside curve of the cable during and after installation. It is best to keep the minimum bend radius at least at four times the diameter of the cable.
- Cables should be kept at a distance of at least 30 cm from power cables. In an environment prone to high EMI, it is best to use shielded cables. Most Cat5e cables are unshielded, which makes them more flexible, durable and inexpensive. Thou shalt keep your cables away from power sources If using unshielded cables, keep them away from any source of EMI such as other cables, transformers and light fixtures. In high RF environments, it is best to use shielded cables.
- If possible, avoid patch cords or cables altogether, as every connection introduces losses in the transmission. If absolutely necessary, make sure to use less than two per cable run and keep each less than five meters from the end.

HDBaseT Recommended cable

- Visit the website (*https://hdbaset.org/hdbaset-recommended-cables*) and refer to information in details.

Using Patch Cables (Ex: CAT6 FTP)

The total run of an HDBaseT cable installation may include up to two patch cables. This is referred to as a three-segment installation.



- Three-segment cable installation
  - X = Cable length ≤ 5 m
  - Y = Cable length ≤ 5 m
  - Z = 100 m – X – Y

HDBT support function

1 Set host mode (Shipment mode): HDMI IN, RS-232C IN, IR IN, USB IN, LAN IN
2 Set device mode (Device mode can be changed in settings.): HDMI IN, RS-232C IN, IR IN, WEBCAM, LAN IN
3 IR IN is disabled. When SET is off.
4 Even if set is off, it operates in DPM (sleep mode), WOL, SCREEN OFF & BACKLIGHT on mode.
5 The webcam connect set input USB IN 2, and connected HDBT.

Use speaker out Port

1 Turn off the power and connect the speakers.
2 Turn off the power and disconnect the speakers.
3 Supports 6 Ω resistor speakers R, L (10 W, 10 W)

Using the Input List

(HOME) →

- HDMI1 → HDMI2 → HDBaseT → DISPLAYPORT

TROUBLESHOOTING

» Each model may have different points to check.
» For information on your PC settings, refer to the Windows Help.

Issues Related to Use

- The power won't turn on.
  - Check if the power cord is correctly plugged into the power outlet.
  - When operating in below zero temperature, the enclosure may not work for up to one hour to raise the internal temperature of the enclosure.
  - Check whether the circuit breaker has been connected properly. The switch of the circuit breaker must be set to on (red).
  - Try turning the power on after disconnecting the AC adapter and cleaning the contacting port.
- The 'Unknown Product' message appears when the product is connected.
  - Check if the driver of PC (graphics card) has been installed.
  - Check if the Plug and play function is supported by the PC (graphics card) user manual.

Issues Related to Screen (Video)

- A message saying 'No signal' or 'Invalid Format' appears.
  - The signal cable is not connected between the PC and the product, or the cable connection status is unstable. Check the signal cable.
  - Access the input menu to check the input signal.
  - The signal from the PC (Graphics card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the specifications in this manual.
- The position of the screen is incorrect.
  - Check if the graphics card resolution and frequency are supported by the product. If the frequency exceeds the supported range, use PC settings to set the resolution to the recommended value.
  - D-Sub analog signal - Press the **AUTO** button in the remote control to automatically select the optimal screen status that fits into the current mode. If the adjustment is not satisfactory, adjust the display settings manually in the OSD menu.

- The screen is displayed abnormally.
  - Connect the signal cable that matches with the source input signal.
  - Condensation may appear on the screen. It will disappear in a certain period of time after the product is powered on.
  - The condensation formed inside the product is a natural phenomenon and is not covered under warranty. (IPX6 is a standard to protect the product from 100 L of water per minute and not from infiltration of moisture in the air into the set.)
- Images are flickering or fluttering on the screen.
  - If you turn the monitor on when it is cold, the screen may flicker. This is normal.
  - Make sure that the current resolution and frequency settings of the graphics card are supported by the monitor.
- Stripes appear in the background.
  - D-Sub analog signal - Press the **AUTO** button in the remote control to automatically select the optimal screen status that fits into the current mode. If the adjustment is not satisfactory, adjust the display settings manually in the OSD menu.
- Horizontal noise appears or the characters look blurred.
  - D-Sub analog signal - Press the **AUTO** button in the remote control to automatically select the optimal screen status that fits into the current mode. If the adjustment is not satisfactory, adjust the display settings manually in the OSD menu.

Issues Related to Screen (Color)

- Screen has poor color resolution (16 colors).
  - Use PC settings to set the color to 24 bits (True Color) or above.
- Screen color is unstable or mono-colored.
  - Check the connection status of the signal cable. Or, re-insert the PC graphics card.
- Black spots or bright spots appear on the screen.
  - Some pixels (red, green, blue, black) are visible on the screen due to the unique characteristics of the display panel. This is not a malfunction of the product.
- The screen's brightness seems dark.
  - Adjust brightness and contrast again.
  - Backlight may need repair.
  - If the internal temperature of the enclosure rises, the screen's brightness may darken. Make sure to regularly clean the heat exchanger within the enclosure.

Issues Related to Sound

- There is no sound output.
  - See if the audio cable is connected properly.
  - Adjust the volume of the product or external device.
  - See if the sound is set properly.
- Sound is too dull.
  - Select the appropriate equalizer sound.
- Sound is too low.
  - Adjust the volume of the product or external device.
- For some models, you will need to purchase external speakers separately since they do not have speakers built-in.

Other Issues

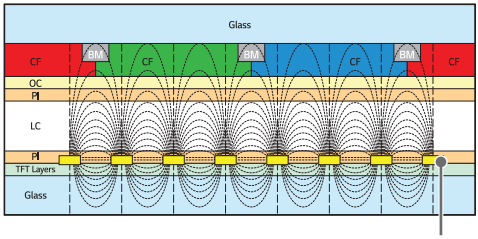
- The power suddenly turned off.
  - Check if the auto-off function is activated on the settings related time.
  - Power source has not being supplied properly. See if the product power cord is connected properly.
  - Check the power control settings.
  - If the internal temperature of the enclosure rises, the power may shut down. Make sure to regularly clean the heat exchanger within the enclosure.

Image sticking

- After-image appears when the product is turned off.
  - If you use a fixed image for a long time, the pixels may be damaged. Use the screen-saver function.
  - When a dark image is displayed on the screen after an image with high contrast (black and white or gray), this may cause image sticking. This is normal for display products.
- When the LCD panel displays a static image for an extended period of time, it can cause a voltage difference between the electrodes that operate the liquid crystals. When the voltage difference between the electrodes builds up over time, liquid crystals have a tendency to remain aligned in one direction. During this process, a previously displayed image remains visible. This phenomenon is referred to as image sticking.
- Image sticking does not occur when using constantly changing images but may occur when using a fixed image for an extended period of time. Therefore, it is recommended that you use the instructions below to decrease the likelihood of image sticking occurring when using a fixed image. It is recommended that you change the screen at least once every 12 hours at the very minimum; if done more frequently, the prevention of image sticking is more effective.

• Recommended operating conditions

1 Change the background and the character colors using the same time interval.
- When changing colors, using complementary colors helps to prevent image sticking.



2 Change the image using the same time interval.
- Make sure that the characters or images before changing the image remain in the same location after changing the image.

PRODUCT SPECIFICATIONS

The product specifications below may be changed without prior notice due to upgrade of product functions.
" ~ " refers to alternating current (AC), and " ⎓ " refers to direct current (DC).

LCD screen	Screen type	Thin Film Transistor (TFT) Liquid Crystal Display (LCD) Screen
Video signal	Maximum resolution	1920 × 1080 @ 60 Hz - This may not be supported on some OS or graphics card types.
	Recommended resolution	1920 × 1080 @ 60 Hz - This may not be supported on some OS or graphics card types.
	Horizontal frequency	30 kHz to 83 kHz
	Vertical frequency	30 Hz, 56 Hz to 60 Hz
	Synchronization	Separate Sync, Digital
Input / Output ports		HDMI IN, DP IN, USB 2.0 IN, LAN IN/OUT, SPEAKER OUT, RS-232C IN/OUT, HDBaseT IN
Embedded battery		Applied
Environmental Conditions	Operating Temperature Operating Humidity	-30 °C to 50 °C 5 % to 100 %
	Storage Temperature Storage Humidity	-20 °C to 60 °C 5 % to 100 %

49XE4F		
LCD screen	Pixel Pitch	0.5593 mm (H) x 0.5593 mm (V)
Power	Rated power	AC 100-240 V ~ 50/60 Hz 3.8 A
	Power Consumption	On Mode: 300 W (Typ.) / 350 W (Max.) Sleep Mode: ≤ 0.5 W Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight		1,153 mm x 656.2 mm x 88 mm / 32 kg

55XE4F		
LCD screen	Pixel Pitch	0.630 mm (H) x 0.630 mm (V)
Power	Rated power	AC 100-240 V ~ 50/60 Hz 4.1 A
	Power Consumption	On Mode: 330 W (Typ.) / 400 W (Max.) Sleep Mode: ≤ 0.5 W Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight		1,292.5 mm x 737.4 mm x 88 mm / 40 kg

HDMI / HDBaseT / DisplayPort (PC) support mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	31.469	59.94
800 x 600	37.879	60.317
1024 x 768	48.363	60
1280 x 720	44.772	59.855
1366 x 768	47.712	60
1280 x 1024	63.981	60.02
1680 x 1050	65.29	59.954
1920 x 1080	67.5	60

HDMI / HDBaseT / DisplayPort (DTV) support mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
480/60p	31.5	60
576/50p	31.25	50
720/50p	37.5	50
720/60p	45	60
1080/50i	28.1	50
1080/60i	33.75	60
1080/50p	56.25	50
1080/60p	67.5	60

NOTE

- When using HDMI / HDBaseT / DisplayPort inputs, PC and DTV resolutions can be adjusted in the Input Label.
- Vertical frequency: The product display functions by the screen image changing dozens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the number of times the image display is repeated per second. The unit is Hz.
- Horizontal frequency: The horizontal interval is the time taken to display one horizontal line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

LICENSES

Supported licenses may differ by model. For more information of the licenses, visit *www.lg.com*.

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The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.

MODEL _____

SERIAL NO. _____

Temporary noise is normal when powering ON or OFF this device.