



OWNER'S MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

Please read the user manual before using this product to ensure safe and convenient use.

86XF3SK

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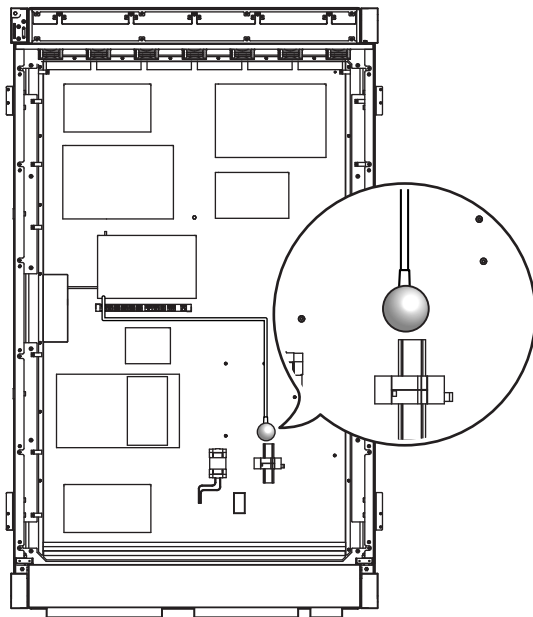
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Connecting the IR Sensors

When an IR receiver is connected to the product, it enables a feature to receive signals from the remote control.

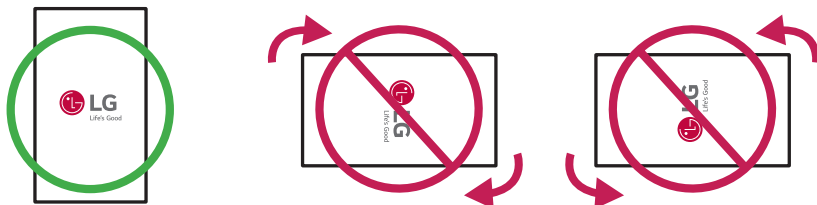
All connected products can normally receive signals when the IR receiver is connected to the product from which the RS-232C connector connection is initiated.



CHECKING BEFORE INSTALLATION

We are not responsible for product damage caused by failure to follow the guide.

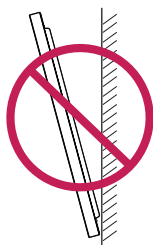
Installation Orientation



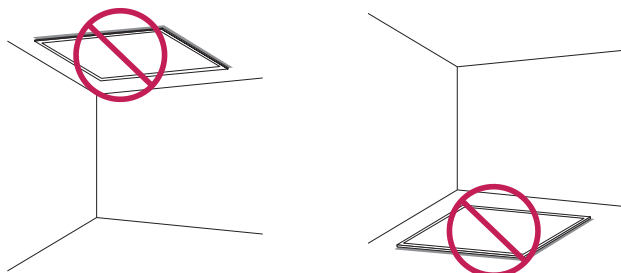
! NOTE

- 86XF3SK does not support landscape installation.

Tilt Angle

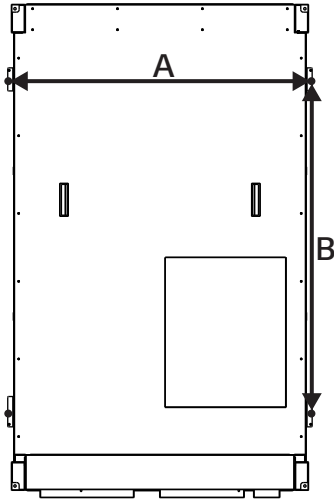


Ceiling, Floor Orientation



Wall Mount Holder

To install the monitor on a wall, attach a wall mount holder (optional) to the back of the monitor. Take caution, and ensure that the wall mount holder (optional) is securely fixed to the monitor and to the wall. The VESA dimensions of the wall mount by model are as follows.



Model	VESA Dimensions (A x B) (mm)	Standard Dimensions	Quantity
86XF3SK	1243 x 1370	M6	4

CAUTION

- Disconnect the power cord first, and then move or install the monitor. Otherwise, it may result in electric shock.
- If the monitor is installed on a ceiling or inclined wall, it may fall and result in injury.
- Damage to the monitor by tightening the screws too tightly may void your warranty.
- Use screws and wall mount plates conforming to VESA standards. Breakage or personal injury due to use or misuse of inappropriate components is not covered by the warranty of this product.

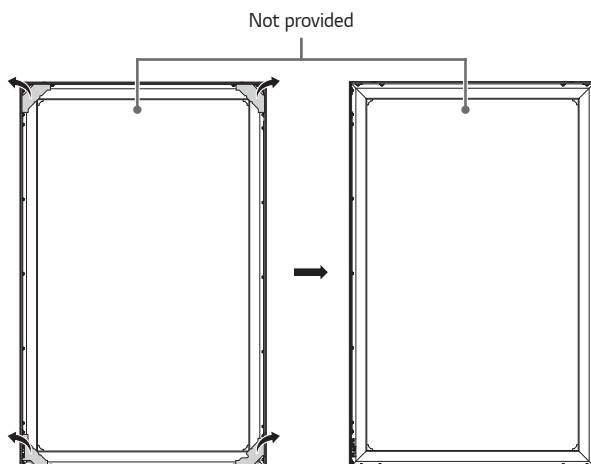
NOTE

- Using screws longer than the indicated depth may damage the inside of the product. Be sure to use the proper length.
- For more information on installation, please refer to the user manual for the wall mount.

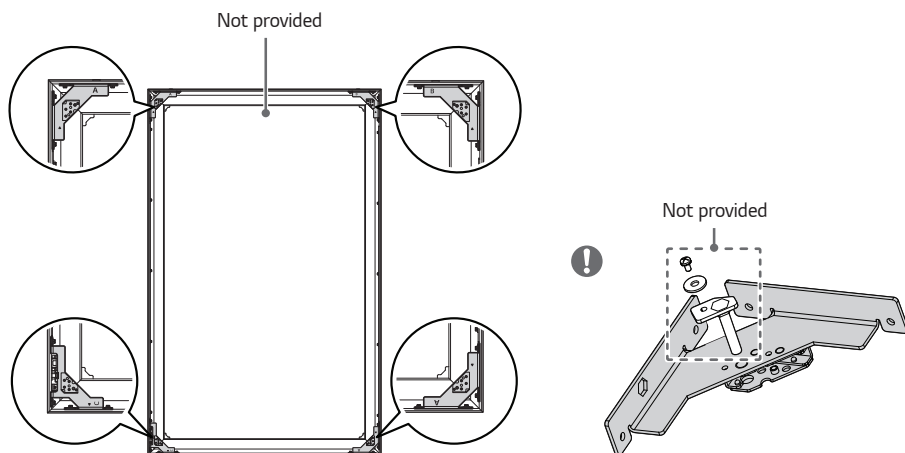
How to Install

Installing the Product

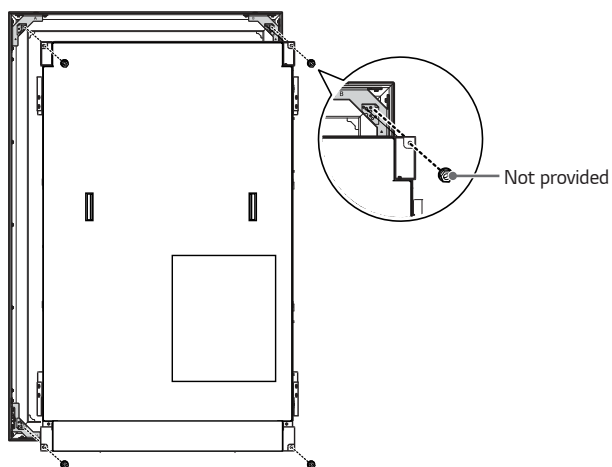
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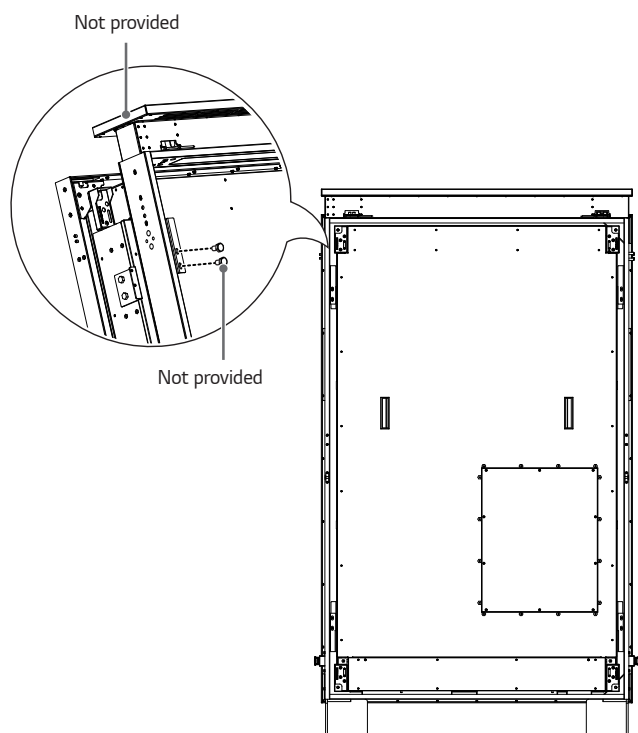
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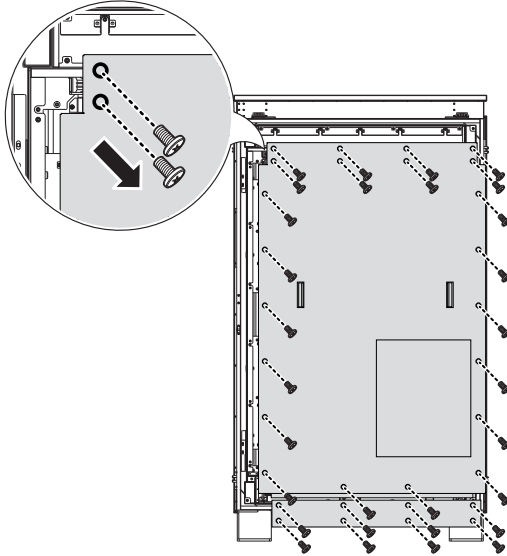


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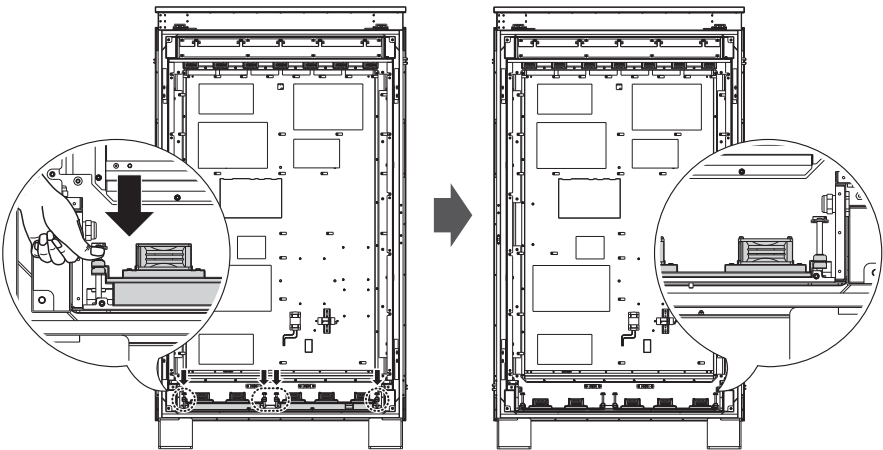


How to Install a Filter and Connect Electrical Power

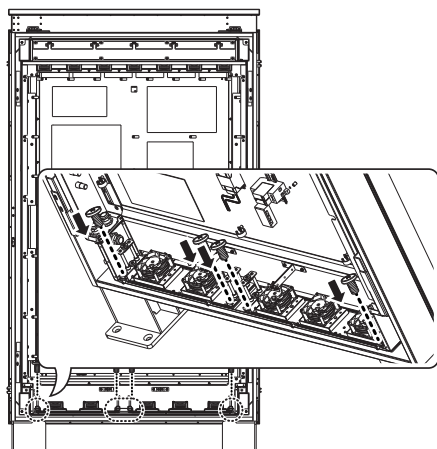
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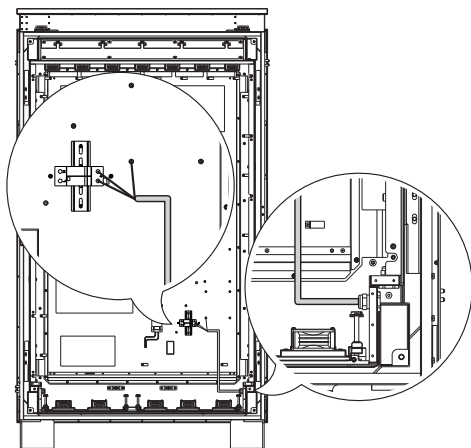
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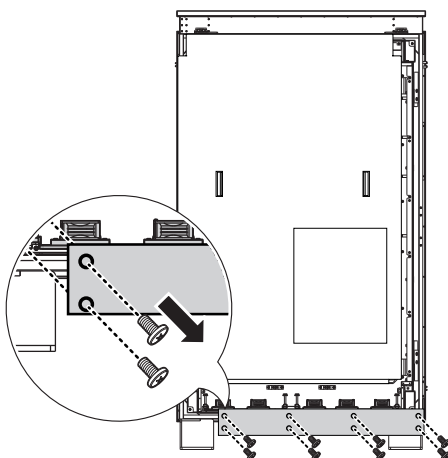


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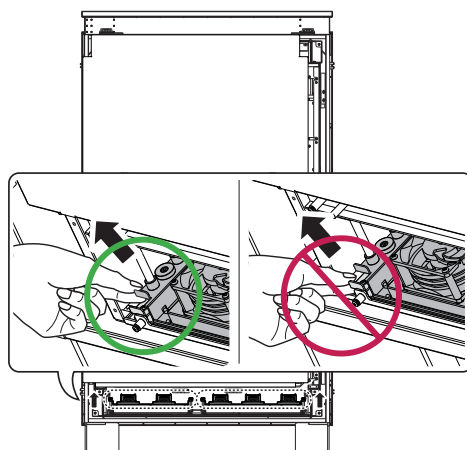


How to Replace a Filter

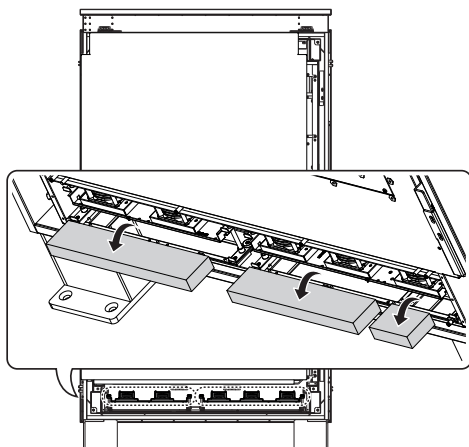
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2



3

**! NOTE**

- After replacing the filter, reassemble the filter in reverse order.

Safety and Precaution Guide for Installation

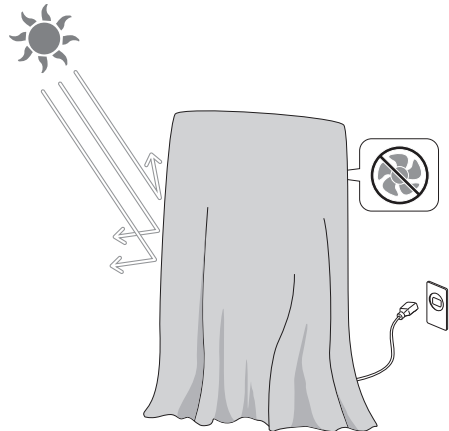
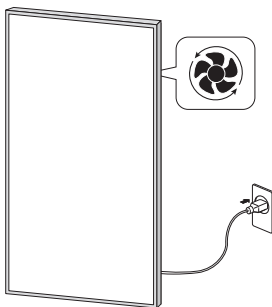
When Exposed to Direct Sunlight

- 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, enable the [Screen Off & Backlight On].
 - 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.

Enclosure Design Guide

- Quality assurance is not provided for failures such as yellowing and black circles that occur when the panel temperature exceeds 75 degrees due to lack of Air Gap 10 mm, not applying UV protection function, and insufficient heat dissipation performance.

CAUTION



PRECAUTIONS FOR USE

WARNING

- Do not put metals such as coins, hairpins, or metal attachments, or flammable objects such as paper or matches into the product.

Dust

The warranty will not cover any damage caused by using the product in an excessively dusty environment.

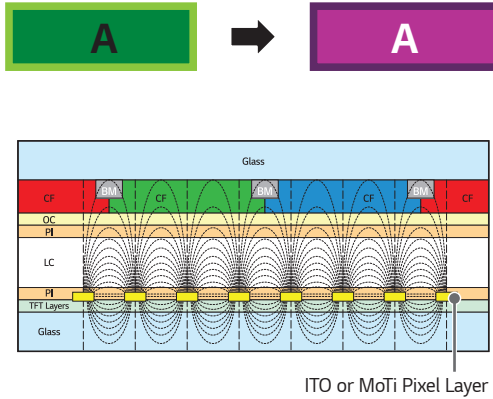
Afterimage

- After-image appears when the product is turned off.
 - Pixels may be damaged rapidly if a still image is displayed on the screen for a long period of time. Use the screen-saver function.
 - Switching from a screen with high differences in luminance (black and white or grey) to a darker screen may cause an afterimage. This is normal due to the display characteristics of this product.
- When the LCD screen is in a still pattern for extended periods of use, a slight voltage difference may occur between the electrodes that operate the liquid crystal (LC). The voltage difference between the electrodes increases over time and tends to keep the liquid crystal aligned in one direction. At this time, the previous image remains, which is called an afterimage.
- Afterimages do not occur when continuously changing images are used but take place when a certain screen is fixed for a long time. The following are operational recommendations for reducing the occurrence of afterimages when using a fixed screen. The maximum recommended time for switching the screen is 12 hours. Shorter cycles are better for preventing afterimages.

- Recommended Usage Condition

1 Change the background colour and text colour at equal intervals.

- Afterimages occur less when the colours to be changed are complementary to one another.



2 Switch the screen at equal time intervals.

- Take caution, and ensure that text or images from before the screen change are not left in the same location after the screen change.



PRODUCT SPECIFICATIONS

Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.

Input/Output Ports	IR IN, RS-232C IN/OUT, HDMI IN, DP IN, USB 2.0 IN, LAN IN/OUT	
Resolution	Recommended Resolution	HDMI/ DisplayPort : 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphics card types.
	Max Resolution	HDMI/ DisplayPort : 3840 x 2160 @ 60 Hz - This may not be supported on some OS or graphics card types.
Power Voltage	200-240 V ~ 50/60 Hz 10.0 A 100-240 V ~ 50/60 Hz 20.0 A: Canada, Colombia, Mexico, Peru, Philippines, Taiwan, United States, and any country that uses 100-127 V.	
Environmental Conditions	Operating Temperature	0 °C to 50 °C (Without Direct Sunlight, Direct Sunlight in Cooling System) 0 °C to 40 °C (Direct Sunlight)
	Operating Humidity	10 % to 80 % (Condition for preventing condensation)
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	5 % to 85 % (Condition for preventing condensation) * Product box packaging storage conditions

Model Name	Dimensions (Width x Height x Depth) (mm)	Weight (kg)
86XF3SK	1,202.8 x 2,003 x 163.88	140

HDMI / DisplayPort (PC) Support Mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remarks
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	
3840 x 2160	67.5	30	HDMI, DisplayPort
3840 x 2160	135	60	HDMI, DisplayPort

HDMI / 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
2160/30p	67.5	30
2160/50p	112.5	50
2160/60p	135	60

 **NOTE**

- PC or DTV mode can be selected for HDMI and DisplayPort inputs. It is recommended to set the monitor as PC mode when connecting to a PC and as DTV mode when connecting to other devices. DTV mode refers to every mode except PC mode.
- Horizontal Frequency: The horizontal interval is the time taken to display one horizontal line. When one is divided by the horizontal interval, the number of horizontal lines displayed every second is the horizontal frequency. The unit is kHz.
- Vertical Frequency: The monitor screen 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 image displays per second. The unit is Hz.

LICENCE

Supported licenses may differ by model. Visit www.lg.com for more information on licenses.



The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.





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.