



OWNER'S MANUAL

# LG Gaming Monitor (LED MONITOR\*)

\* LG LED Monitor applies LCD screen with LED backlights.

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

32GK850F

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

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# LICENSE

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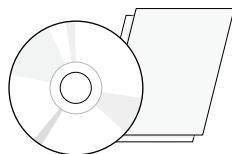


The SuperSpeed USB Trident logo is a registered trademark of USB Implementers Forum, Inc.

# ASSEMBLING AND PREPARING

## Product Composition

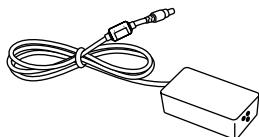
Please check whether all the components are included in the box before using the product. If there are any missing components, contact the retailer where you purchased the product. Note that the product and related components may look different from those shown here.



CD (Owner's Manual / Software /  
Guides) / Cards  
( Depending on the country )



Power cord  
( Depending on the country )



AC/DC Adapter



USB 3.0 Cable  
( Depending on the country )



DisplayPort Cable  
( Depending on the country )



Stand Base



Cable Holder



Stand Body



Mouse Holder



HDMI Cable  
( Depending on the country )



## CAUTION

- Always use genuine LG components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of unauthorized components.
- It is recommended that use the supplied components.
- If you use generic cables not certified by LG, the screen may not display or there may be image noises.



## NOTE

- The components may look different from those illustrated here.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or an online shopping site, or contact the retailer from which you purchased the product.
- The power cord provided may differ depending upon the region.

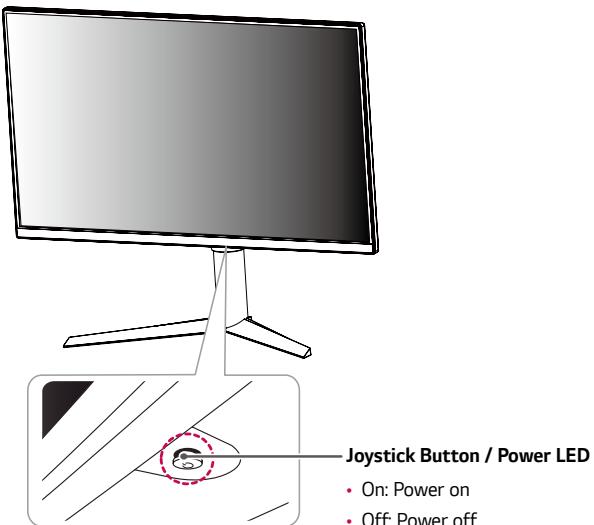
## Supported Drivers and Software

Check the drivers and software supported by your product and refer to the manuals on the CD enclosed in the product package.

Drivers and Software	Installation Priority	32GK850F
Monitor Driver	Recommended	0
OnScreen Control	Recommended	0

- Required and Recommended: You can download and install the latest version from the enclosed CD or from the LGE website ([www.lg.com](http://www.lg.com)).
- The monitor FW can be updated through the OnScreen Control.

## Product and Button Description



### How to Use the Joystick Button

You can easily control the functions of the monitor by pressing the joystick button or moving it left/right with your finger.

#### Basic Functions

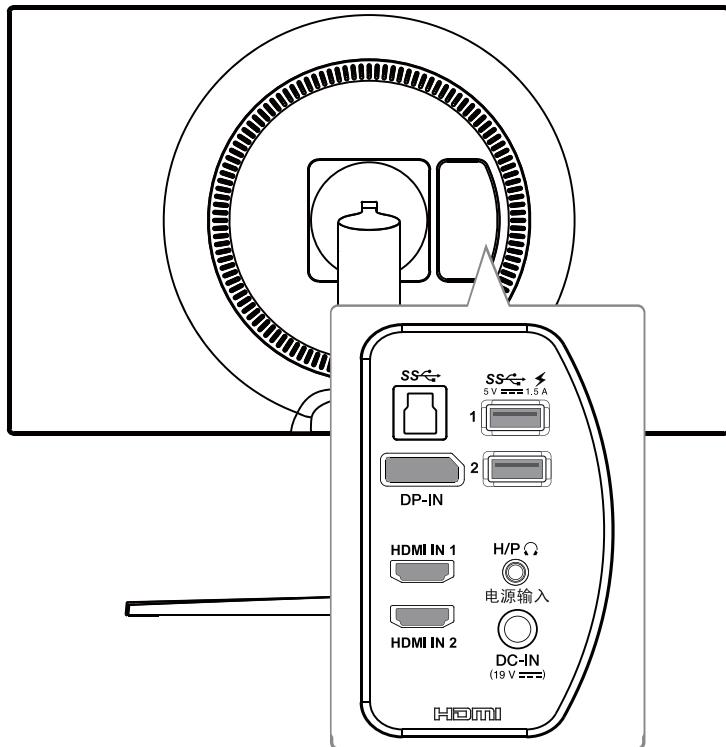
	<b>Power on</b>	Press the joystick button once with your finger to turn on the monitor.
	<b>Power off</b>	Press and hold the joystick button once with your finger to turn off the monitor.
	<b>Volume control</b>	You can control the volume by moving the joystick button left/right.
	<b>Controls screen brightness</b>	You can control the screen's brightness by moving the joystick button up/down.



#### NOTE

- The joystick button is located at the bottom of the monitor.

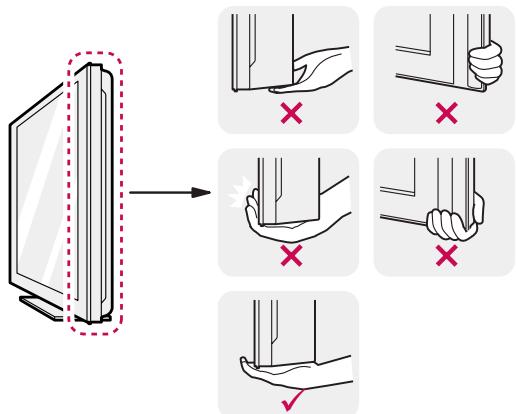
## Input Connector



## Moving and Lifting the Monitor

When moving or lifting the monitor, follow these instructions to prevent the monitor from being scratched or damaged and to ensure safe transportation, regardless of its shape or size.

- Place the monitor in the original box or packing material before attempting to move it.
- Before moving or lifting the monitor, disconnect the power cord and all other cables.
- Hold the bottom and side of the monitor frame firmly. Do not hold the panel itself.



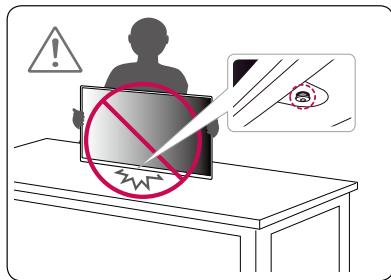
- When holding the monitor, the screen should face away from you to prevent it from being scratched.
- When transporting the monitor, do not expose the monitor to shock or excessive vibration.
- When moving the monitor, keep it upright and never turn the monitor on its side or tilt it sideways.

 **CAUTION**

- Avoid touching the monitor screen as much as possible.
  - This may result in damage to the screen or some of the pixels used to create images.



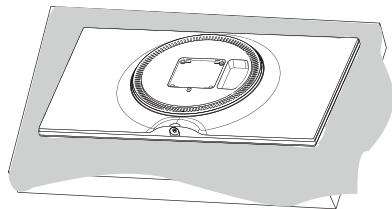
- If you use the monitor panel without the stand base, its joystick button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the joystick button to malfunction.



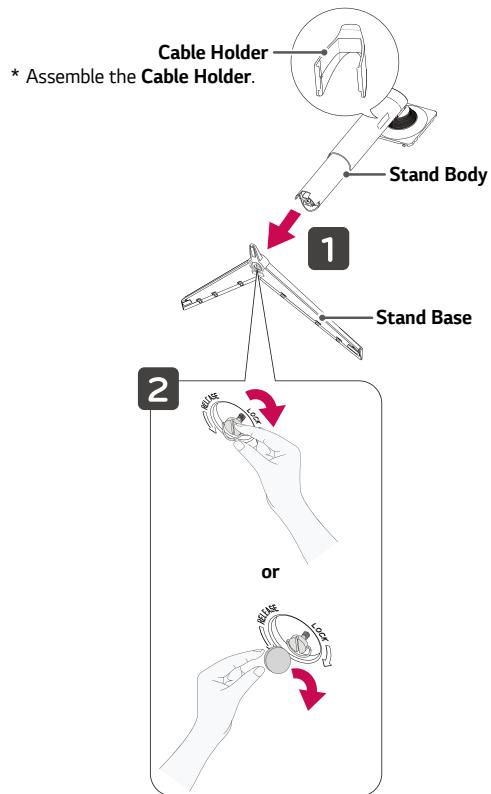
## Installing the Monitor

### Assembling the Stand

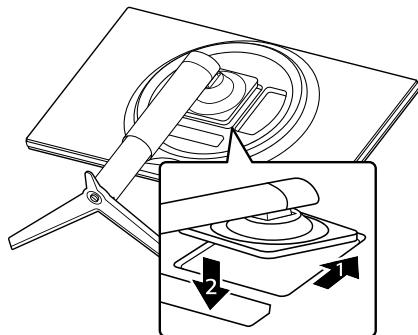
1



2

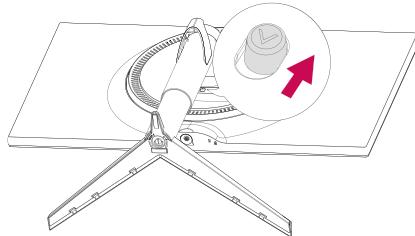


3



### ! NOTE

- Press the stand until the button reaches the top.

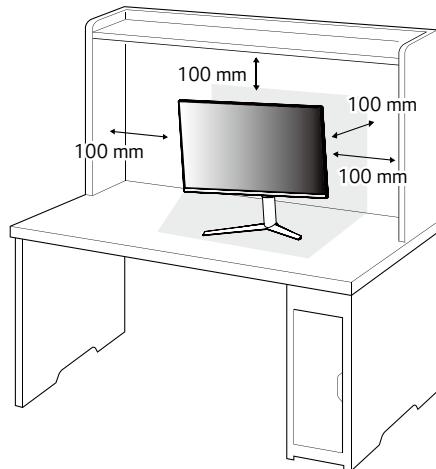


### ! CAUTION

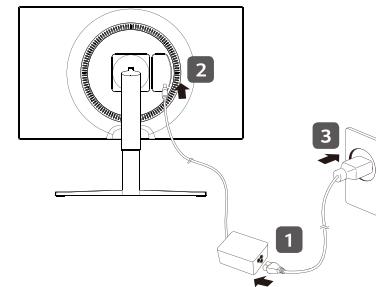
- Illustrations in this document represent typical procedures, so they may look different from the actual product.
- Do not apply foreign substances (oils, lubricants, etc.) to the screw parts when assembling the product. (Doing so may damage the product.)
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this way will not be covered by the product warranty.
- Do not carry the monitor upside down by just holding the base. This may cause the monitor to fall off the stand and could result in personal injury.
- When lifting or moving the monitor, do not touch the monitor screen. The force applied to the monitor screen may cause damage to it.

## Installing on a Table

- 1 Lift the monitor and place it on the table in an upright position. Place the monitor at least 100 mm away from the wall to ensure sufficient ventilation.



- 2 Connect the power adapter to the monitor and then plug the power cord into the wall outlet.



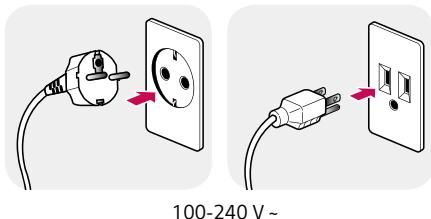
- 3 Press the joystick button on the bottom of the monitor to turn on the monitor.



## CAUTION

- Unplug the power cord before moving or installing the monitor. There is risk of electric shock.

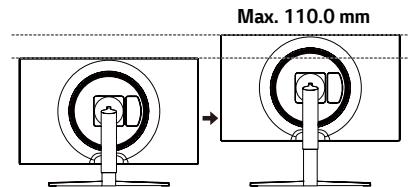
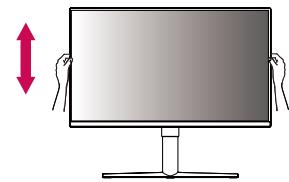
### Cautions When Connecting Power Cord



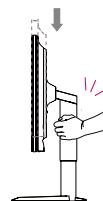
- Make sure to use the power cord that is provided in the product package and connect it to a grounded power outlet.
- If you need another power cord, please contact your local dealer or the nearest retail store.

## Adjusting the Stand Height

- Place the monitor mounted on the stand base in an upright position.
- Handle the monitor with both hands for safety.



## WARNING

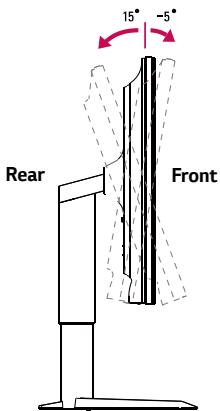


- When adjusting the screen height, do not place your hand on the stand body to avoid injury to your fingers.

## Adjusting the Angle

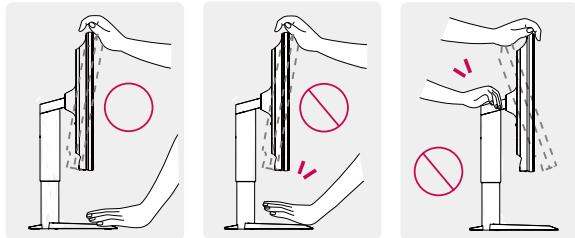
- 1 Place the monitor mounted on the stand base in an upright position.
- 2 Adjust the angle of the screen.

The angle of the screen can be adjusted forward or backward from -5° to 15° for a comfortable viewing experience.

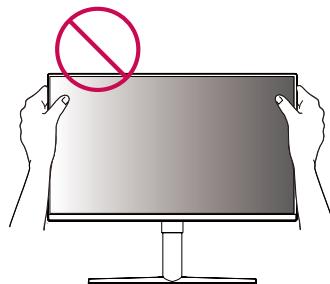


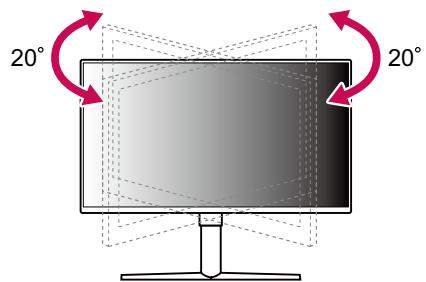
### WARNING

- To avoid injury to the fingers when adjusting the screen, do not hold the lower part of the monitor's frame as illustrated below.



- Be careful not to touch or press the screen area when adjusting the angle of the monitor.

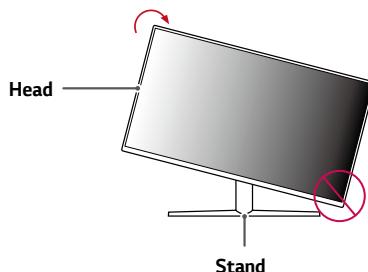


**NOTE**

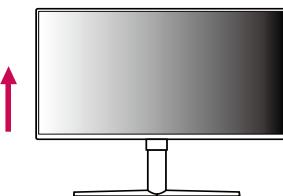
Swivel (clockwise 20°)  
Swivel (counter clockwise 20°)

**Pivot Feature**

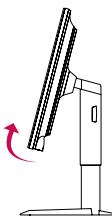
The pivot feature allows the monitor to rotate 90° clockwise.

**WARNING**

- To avoid scratching the stand base, make sure that when rotating the monitor using the pivot feature, the stand does not make contact with the monitor.
- 1 Raise the monitor to the maximum height.



2 Adjust the angle of the monitor in the direction of the arrow as shown in the figure.



3 Rotate the monitor clockwise as shown in the figure.



4 Complete the installation by rotating the monitor 90° as shown below.

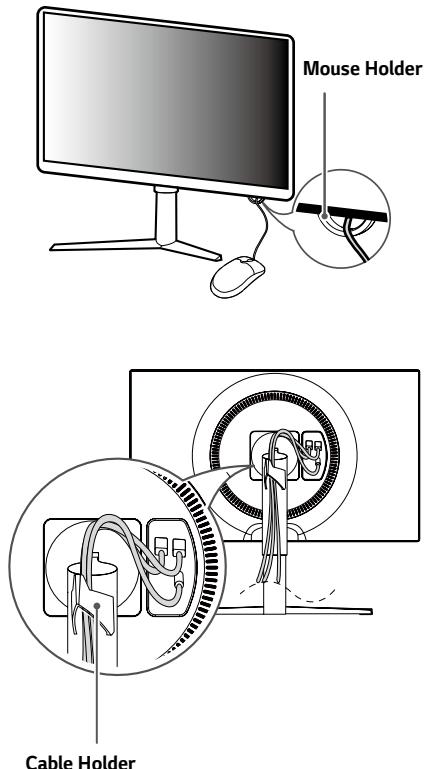


**! NOTE**

- Auto Pivot feature of the display is not supported.
- The screen can be rotated easily using the screen pivot shortcut key provided with your Windows operating system. Note that some Windows versions and some graphics card drivers may use different settings for the screen pivot key or may not support the pivot key at all.

## Tidying up Cables

Arrange the cables using the cable holder as shown in the illustration.

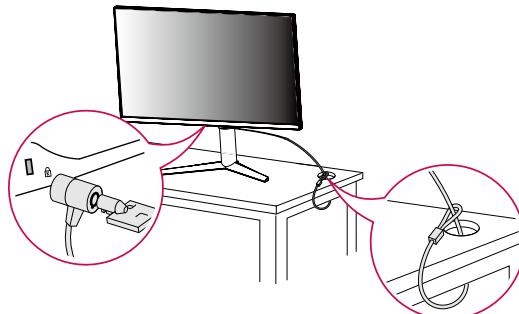


## Using the Kensington Lock

The connector for the Kensington security system is located at the bottom of the monitor.

For more information on installation and usage, refer to the Kensington lock owner's manual or visit the website at <http://www.kensington.com>.

Connect the monitor to a table using the Kensington security system cable.

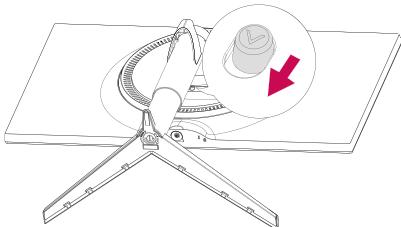


### NOTE

- The Kensington security system is optional. You can obtain optional accessories from most electronics stores.

## Detaching the Stand Body

- 1 Place the monitor's screen face down. To protect the screen from scratches, cover the surface with a soft cloth.
- 2 Remove the stand from the monitor by pressing the button on the bottom center of the back of the monitor.



## Installing the Wall Mount Plate

This monitor meets the specifications for the wall mount plate or other compatible devices.

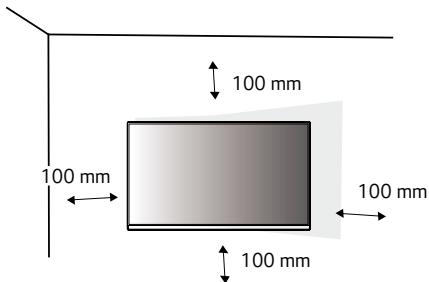
- 1 Place the screen face down. To protect the monitor panel (screen), cover the surface with a soft cloth or the monitor protection pad included in the product package.
- 2 Remove the four screws tightened on the back of the monitor.
- 3 Place the wall mount plate onto the monitor and align it with the screw holes.
- 4 Tighten the four screws using a screwdriver to fix the plate to the monitor.

### NOTE

- The wall mount plate is sold separately.
- For more information on installation, refer to the wall mount plate's installation guide.
- Be careful not to apply too much force while mounting the wall mount plate as it may cause damage to the screen.

## Installing on the Wall

Install the monitor at least 100 mm away from the wall and leave about 100 mm of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Alternatively, please refer to the manual for how to install and set up a tilting wall mounting bracket.

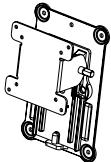


To install the monitor to a wall, attach a wall mounting bracket (optional) to the back of the monitor.

Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

- 1 If you use screws longer than the standard length, it may damage the inside of the product.
- 2 A non-VESA standard screw may damage the product and cause the monitor to fall. LG Electronics is not liable for any accidents relating to the use of non-standard screws.

<b>Wall Mount (mm)</b>	100 x 100
<b>Standard screw</b>	M4 x L10
<b>Number of screws</b>	4
<b>Wall Mount Plate (Optional)</b>	RW120



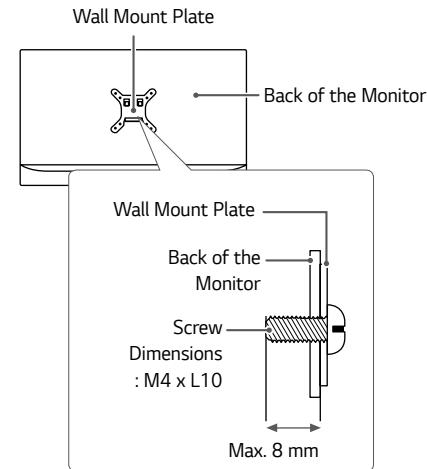
 **NOTE**

- Use the screws specified by VESA standards.
- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain optional accessories from your local dealer.
- The length of the screw may differ for each wall mounting bracket. Be sure to use the proper length.
- For more information, please refer to the user manual for the wall mounting bracket.

 **CAUTION**

- Unplug the power cord before moving or installing the monitor to avoid electric shock.
- Installing the monitor on the ceiling or on a slanted wall may result in the monitor falling off, which could lead to injury. Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this way will not be covered by the product warranty.

- Use the wall mounting bracket and screws that conform to VESA standards. Damage caused by the use or misuse of inappropriate components will not be covered by the product warranty.
- When measured from the back of the monitor, the length of each installed screw must be 8 mm or less.



# USING THE MONITOR

- The following instructions are based on the 32GK850F model. Illustrations in this manual may differ from the actual product.

Press the joystick button, go to **Settings** → **Input**, and then select the input option.



## CAUTION

- Do not press the screen for a prolonged time. This may cause image distortion.
- Do not display a still image on the screen for a prolonged time. This may cause image retention. Use a screensaver if possible.



## NOTE

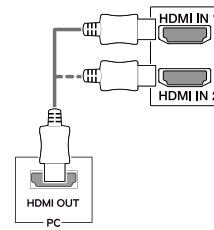
- When connecting the power cord to the outlet, use a grounded (3-hole) power strip or a grounded power outlet.
- The monitor may flicker when turned on in an area where the temperature is low. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.

## Connecting to a PC

- This monitor supports the \*Plug and Play feature.
- \* Plug and Play: A feature that allows you to add a device to your computer without having to reconfigure anything or install any manual drivers.

### HDMI Connection

Transmits digital video and audio signals from your PC to the monitor. Connect your PC to the monitor using the HDMI cable as shown in the illustration below.



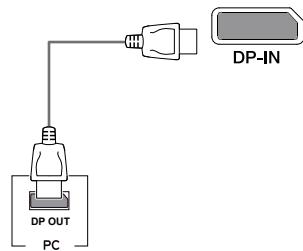


## CAUTION

- Using a DVI to HDMI / DP (DisplayPort) to HDMI cable may cause compatibility issues.
- 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

## DisplayPort Connection

Transmits digital video and audio signals from your PC to the monitor. Connect the monitor to your PC using the DisplayPort cable as shown in the illustration below.



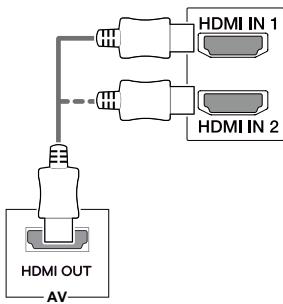
## NOTE

- There may be no video or audio output depending on the DP (DisplayPort) version of the PC.
- Make sure to use the supplied DisplayPort cable of the product. Otherwise, this may cause the device to malfunction.

## Connecting AV Devices

### HDMI Connection

HDMI transmits digital video and audio signals from your AV device to the monitor. Connect your AV device to the monitor using the HDMI cable as shown in the illustration below.



### NOTE

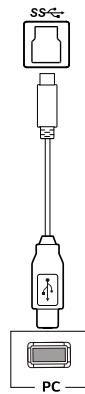
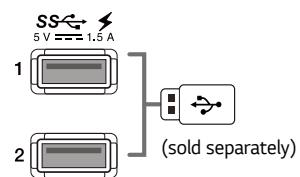
- Using a DVI to HDMI / DP (DisplayPort) to HDMI cable may cause compatibility issues.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
  - High-Speed HDMI®/™ cable
  - High-Speed HDMI®/™ cable with Ethernet

## Connecting Peripherals

### USB Cable connection

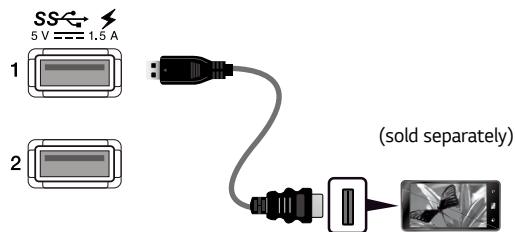
The USB port on the product functions as a USB hub.

To use USB 3.0, connect the A-B type USB 3.0 cable of the product to the PC. Peripheral devices connected to the USB IN port can be controlled from the PC. For using the USB downstream port, connect the USB A/B type cable as picture



## ! NOTE

- Make sure to install the most recent Windows OS service pack before using the product.
- Peripheral devices are sold separately.
- A keyboard, mouse, or USB device can be connected to the USB port.
- **Quick Charge** is available through the USB1 and USB2 port.
- When the Monitor is gone to Power off, **Quick Charge** is not available.
- The charging speed may vary depending on the device.



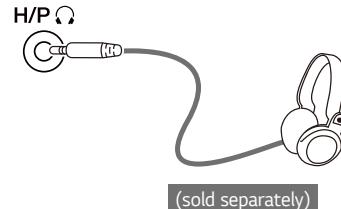
## CAUTION

### Cautions When Using a USB Device

- A USB device with an automatic recognition program installed, or that uses its own driver, may not be recognized.
- Some USB devices may not be supported or may not work properly.
- It is recommended to use a USB hub or hard disk drive with power supplied. (If the power supply is not adequate, the USB device may not be recognized properly.)

## Connecting Headphones

Connect peripherals to the monitor via the headphones port. Connect as illustrated.



## ! NOTE

- Peripheral devices are sold separately.
- If you use angled earphones, it may cause a problem with connecting another external device to the monitor. Therefore, it is recommended to use straight earphones.



Angled



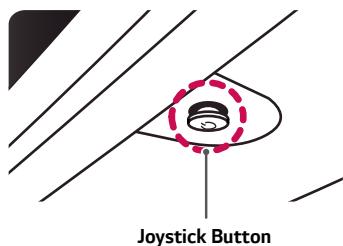
Straight

- Depending on the audio settings of the PC and external device, headphones and speaker functions may be limited.

# USER SETTINGS

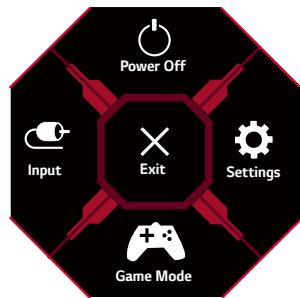
## Activating the Main Menu

- 1 Press the joystick button on the bottom of the monitor.
- 2 Move the joystick up/down ( $\Delta$  /  $\nabla$ ) and left/right ( $\blacktriangleleft$  /  $\triangleright$ ) to set the options.
- 3 Press the joystick button once more to exit the main menu.



Button	Menu Status	Description
	<b>Main menu disabled</b>	Enables the main menu.
	<b>Main menu enabled</b>	Exits the main menu. (Holding down the button to turn off the monitor. You can turn off the monitor this way at any time, including when the OSD is on.)
	<b>Main menu disabled</b>	Adjusts the monitor volume level.
	<b>Main menu enabled</b>	Enters the <b>Input</b> features.
	<b>Main menu disabled</b>	Adjusts the monitor volume level.
	<b>Main menu enabled</b>	Enters the <b>Settings</b> feature.
	<b>Main menu disabled</b>	Adjusts the monitor brightness level.
	<b>Main menu enabled</b>	Turns off the monitor.
	<b>Main menu disabled</b>	Adjusts the monitor brightness level.
	<b>Main menu enabled</b>	Enters the <b>Game Mode</b> feature.

## Main Menu Features



Main Menu	Description
<b>Input</b>	Sets input mode.
<b>Power Off</b>	Turns off the monitor.
<b>Settings</b>	Configures the screen settings.
<b>Game Mode</b>	Sets the game mode for gaming.
<b>Exit</b>	Exits the main menu.

# User Settings

## Menu Settings

- 1 To view the settings menu, press the joystick button at the bottom of the monitor and then enter the **Settings**.
- 2 Configure the options by moving the joystick up/down/left/right.
- 3 To return to the upper settings or set other settings items, move the joystick to **◀** or press **(○)**.
- 4 If you want to exit the settings menu, move the joystick to **◀** until you exit.



Game Mode



Game Adjust



Picture Adjust



Input



General

Settings		Description
<b>Game Mode</b>		Changes the game mode to the one optimized for a given feature.
<b>Game Adjust</b>		Adjusts the <b>1ms Motion Blur Reduction,FreeSync,Black Stabilizer,Response Time,Cross Hair and Game Reset</b> .
<b>Picture Adjust</b>		Adjusts the <b>Brightness,Contrast,Sharpness,Gamma,Color Temp,R/G/B,Black Level,DFC and Picture Reset</b> .
<b>Input</b>	<b>Input List</b>	Selects the input mode.
	<b>Aspect Ratio</b>	Adjusts the aspect ratio of the screen.
<b>General</b>		Sets <b>Language,SMART ENERGY SAVING,Power LED,Automatic Standby,HDMI Compatibility Mode,DisplayPort 1.2,Quick Charge,OSD Lock,Information and Reset</b> .

**CAUTION**

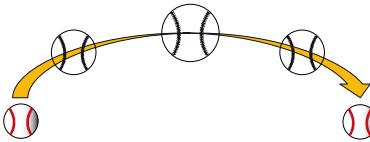
- Your monitor's OSD (On Screen Display) may differ slightly from that shown in this manual.

Game Mode on SDR(Non-HDR)signal.

Settings > Game Mode		Description
Game Mode	<b>Gamer 1</b>	In this mode, users can customize elements including game-related options.
	<b>Gamer 2</b>	<b>Gamer 1</b> and <b>Gamer 2</b> picture modes allow you to save two sets of customized display settings, including game-related setup options.
	<b>FPS</b>	This mode is optimized for FPS games. It is suitable for very dark FPS games.
	<b>RTS</b>	This mode is optimized for RTS Game.
	<b>Vivid</b>	Optimized the screen for vivid colors.
	<b>Reader</b>	Optimizes the screen for viewing documents. You can brighten the screen in the settings menu.
	<b>HDR Effect</b>	Optimizes the screen for high dynamic range.
	<b>sRGB</b>	A standard RGB color space for the monitor and printer.

## Game Mode on HDR signal.

Settings > HDR Game Mode		Description
<b>HDR Game Mode</b>	<b>Gamer 1</b>	In this mode, users can customize elements including game-related options.
	<b>Gamer 2</b>	<b>Gamer 1</b> and <b>Gamer 2</b> picture modes allow you to save two sets of customized display settings, including game-related setup options.
	<b>FPS</b>	This mode is optimized for FPS games. It is suitable for very dark FPS games.
	<b>RTS</b>	This mode is optimized for RTS Game.
	<b>Vivid</b>	Optimized the screen for vivid colors.
	<b>Standard</b>	Optimized the screen for HDR standard.
	 <b>NOTE</b>	<ul style="list-style-type: none"><li>• HDR content may not be operated properly depending on the Windows10 OS setting. Please check the HDR On / Off setting of Windows.</li><li>• When the HDR function is turned on, the characters or picture quality may be poor according to Graphic card performance.</li><li>• While the HDR function is on, screen flickering or cracking may occur when changing the monitor input or power on/off according to Graphic card performance.</li><li>• For information about whether the graphics card and game support HDR, visit their manufacturer's website.</li></ul>

Settings > Game Adjust		Description	
Game Adjust	1ms Motion Blur Reduction	On	<p>This mode minimizes motion blur in fast-moving videos. To take full advantage of this function, select 2560 x 1440 @ 120Hz/144Hz before enabling <b>1ms Motion Blur Reduction</b>.</p>  <p>This function is available for the following vertical frequency. (120Hz,144Hz)</p>
		Off	<p>Turns <b>1ms Motion Blur Reduction</b> Mode off.</p> 
<p><b>! NOTE</b></p> <ul style="list-style-type: none"> <li>• To reduce motion blur, brightness is reduced with backlight control.</li> <li>• <b>1ms Motion Blur Reduction</b> and <b>FreeSync</b> feature can not be used at the same time.</li> <li>• This function is game-optimized.</li> <li>• It is recommended to turn off when you are not using the gaming function.</li> </ul>			

<b>Game Adjust</b>	<b>FreeSync</b>	<p>Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal.</p> <p> <b>CAUTION</b></p> <ul style="list-style-type: none"><li>• Supported Interface: DisplayPort,HDMI.</li><li>• Supported Graphic Card : A graphic card that supports AMD's FreeSync/FreeSync 2 is necessary.</li><li>• Supported Version : Make sure to update the graphic card to the latest driver.</li><li>• For more information and requirement, refer to AMD website at <a href="http://www.amd.com/FreeSync">http://www.amd.com/FreeSync</a></li><li>• <b>FreeSync and 1ms Motion Blur Reduction</b> cannot be enabled simultaneously.</li></ul> <p> <b>NOTE</b></p> <ul style="list-style-type: none"><li>• FreeSync 2 can only be used with the extended mode.</li></ul> <table border="1"><tr><td><b>Extended</b></td><td>Enable wider frequency range of FreeSync function than basic mode. The screen may flicker during the game play.</td></tr><tr><td><b>Basic</b></td><td>Enable basic frequency range of FreeSync function.</td></tr><tr><td><b>Off</b></td><td>FreeSync function off.</td></tr></table> <td><b>Black Stabilizer</b></td> <td>You can control the black contrast to have better visibility in dark scenes. You can easily distinguish objects on dark game screens.</td>	<b>Extended</b>	Enable wider frequency range of FreeSync function than basic mode. The screen may flicker during the game play.	<b>Basic</b>	Enable basic frequency range of FreeSync function.	<b>Off</b>	FreeSync function off.	<b>Black Stabilizer</b>	You can control the black contrast to have better visibility in dark scenes. You can easily distinguish objects on dark game screens.
<b>Extended</b>	Enable wider frequency range of FreeSync function than basic mode. The screen may flicker during the game play.									
<b>Basic</b>	Enable basic frequency range of FreeSync function.									
<b>Off</b>	FreeSync function off.									

Game Adjust	Response Time	Sets a response time for displayed pictures based on the speed of the screen. For a normal environment, it is recommended that you use <b>Fast</b> . For a fast-moving picture, it is recommended that you use <b>Faster</b> . Setting to <b>Faster</b> may cause image sticking.	
		<b>Faster</b>	Sets the response time to faster.
		<b>Fast</b>	Sets the response time to fast.
		<b>Normal</b>	Sets the response time to normal.
		<b>Off</b>	Does not use the response time improvement feature.
	Cross Hair	Cross hair provides a mark on the center of the screen for First Person Shooter (FPS) games. Users can select the cross hair that fits their gaming environment among four different cross hairs. <ul style="list-style-type: none"><li>When the monitor is off or enters energy saving mode, the cross hair feature is automatically turned off.</li></ul>	
	Game Reset	Returns game to the default settings.	

Settings > Picture Adjust		Description	
Picture Adjust	<b>Brightness</b>	Adjusts the brightness of the screen.	
	<b>Contrast</b>	Adjusts the contrast of the screen.	
	<b>Sharpness</b>	Adjusts the sharpness of the screen.	
	<b>Gamma</b>	<b>Mode 1, Mode 2, Mode 3</b>	The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes.
		<b>Mode 4</b>	If you do not need to adjust the gamma settings, select Mode 4.
	<b>Color Temp</b>	<b>Custom</b>	The user can adjust it to red, green, or blue by customization.
		<b>Warm</b>	Sets the screen color to a reddish tone.
		<b>Medium</b>	Sets the screen color to between a red and blue tone.
		<b>Cool</b>	Sets the screen color to a bluish tone.
	<b>R/G/B</b>	You can customize the picture color using <b>Red</b> , <b>Green</b> , and <b>Blue</b> colors.	
	<b>Black Level</b>	Sets the offset level (for HDMI only). <ul style="list-style-type: none"><li>• <b>Offset</b>: as a reference for a video signal, this is the darkest color the monitor can display.</li></ul>	
		<b>High</b>	Keeps the current contrast ratio of the screen.
		<b>Low</b>	Lowers the black levels and raises the white levels from the current contrast ratio of the screen.
	<b>DFC</b>	<b>On</b>	Adjusts the brightness automatically according to the screen.
		<b>Off</b>	Disables the <b>DFC</b> feature.
	<b>Picture Reset</b>	Returns picture and color to the default settings.	

Settings > Input		Description
Input	Input List	Selects the input mode.
	Aspect Ratio	Adjusts the aspect ratio of the screen.
		<b>Full Wide</b> Displays the video in widescreen, regardless of the video signal input.
		<b>Original</b> Displays video according to the aspect ratio of the video signal input.
		<b>1:1</b> The aspect ratio is not adjusted from the original.
<p> <b>NOTE</b></p> <ul style="list-style-type: none"> <li>The display may look the same for <b>Full Wide</b>, <b>Original</b>, and <b>1:1</b> options at the recommended resolution. (2560 x 1440)</li> <li>There is no <b>1:1</b> menu on <b>FreeSync</b> Mode. ( Go to <b>Picture</b> → <b>Game Adjust</b> → <b>FreeSync</b>, to set <b>FreeSync On</b> or <b>Off</b>)</li> </ul>		

Settings > General		Description	
General	Language	Sets the menu screen to the desired language.	
	SMART ENERGY SAVING	High	Saves energy using the high-efficiency SMART ENERGY SAVING feature.
		Low	Saves energy using the low-efficiency SMART ENERGY SAVING feature.
		Off	Disables the SMART ENERGY SAVING feature.
	Power LED	Turns the power LED on the bottom of the monitor on or off.	
		On	The power LED turns on automatically. <ul style="list-style-type: none"> <li>On Mode: Red</li> <li>Sleep Mode: Flashing Red</li> <li>Off Mode: Off</li> </ul>
		Off	The power LED turns off.
	Automatic Standby	Feature that automatically turns off the monitor when there is no movement on the screen for a period of time. You can set a timer for the auto-off function. (Off, 4H, 6H, and 8H)	
	HDMI Compatibility Mode	HDMI Compatibility Mode feature can recognize the legacy equipment that does not support HDMI 2.0.	
		On	Enables <b>HDMI Compatibility Mode</b> .
		Off	Disables <b>HDMI Compatibility Mode</b> .
		 <b>NOTE</b> <ul style="list-style-type: none"> <li>If the connected device does not support <b>HDMI Compatibility Mode</b>, the screen or sound may not work properly.</li> <li>When HDMI Compatibility Mode is on, 2560 x 1440 @ 120/144Hz resolution is not supported.</li> <li>Some older graphics cards do not support HDMI 2.0, but you can select HDMI 2.0 resolution in the control panel of window. This may cause the screen to appear abnormally.</li> </ul>	
	DisplayPort 1.2	Enables or disables DisplayPort 1.2.	
	 <b>NOTE</b> <ul style="list-style-type: none"> <li>Be sure to configure this option according to the DisplayPort version supported by your graphics card. Set this option to Disable if your graphics card does not support DisplayPort 1.2.</li> </ul>		

<b>General</b>	<b>Quick Charge</b>	<b>Quick Charge</b> is a feature that rapidly charges the device connected to the USB 3.0 port.		
		<b>On</b>	Enables <b>Quick Charge</b> .	
		<b>Off</b>	Disables <b>Quick Charge</b> .	
		<p> <b>NOTE</b></p> <ul style="list-style-type: none"> <li>• The charging speed may vary depending on the device.</li> </ul>		
	<b>OSD Lock</b>	This feature disables the configuration and adjustment of menus.		
		<b>On</b>	Enables <b>OSD Lock</b> .	
		<b>Off</b>	Disables <b>OSD Lock</b> .	
	<p> <b>NOTE</b></p> <ul style="list-style-type: none"> <li>• All features are disabled except <b>Brightness,Contrast</b> in <b>Picture Adjust</b>, <b>Input</b>, <b>OSD Lock</b> and <b>Information</b> in <b>General</b>.</li> </ul>			
	<b>Information</b>	The display information will be shown the Model, Serial Number, Total Power On Time, Resolution,FreeSync certification logo.		
	<p> <b>NOTE</b></p> <ul style="list-style-type: none"> <li>• The FreeSync certification logo is only shown when the FreeSync option is set to Extended.</li> </ul>			
	<b>Reset</b>	Restores the default settings.		

# TROUBLESHOOTING

<b>Nothing is displayed on the screen.</b>	
Is the monitor's power cord plugged in?	<ul style="list-style-type: none"> <li>Check if the power cord is correctly plugged into the power outlet.</li> </ul>
Is the power LED on?	<ul style="list-style-type: none"> <li>Check the power cable connection and press the power button.</li> </ul>
Is the power on and the power LED displaying red?	<ul style="list-style-type: none"> <li>Check that the connected input is enabled (<b>Settings</b> &gt; <b>Input</b>).</li> </ul>
Is the power LED blinking?	<ul style="list-style-type: none"> <li>If the monitor is in sleep mode, move the mouse, or press any key on the keyboard, to switch the display on.</li> <li>Check if the computer is turned on.</li> </ul>
Is the <b>The screen is not currently set to the recommended resolution. If you have no video or the screen flickers, see the troubleshooting guide in the product owner's manual.</b> message being displayed?	<ul style="list-style-type: none"> <li>This occurs when signals transferred from the PC (graphics card) are out of the recommended horizontal or vertical frequency range of the monitor. Please see the Product Specification section of this manual to set the appropriate frequency.</li> </ul>
Is the <b>No Signal</b> message being displayed?	<ul style="list-style-type: none"> <li>This is displayed when the signal cable between the PC and the monitor is missing or disconnected. Check the cable and reconnect it.</li> </ul>
Have you installed the display driver?	<ul style="list-style-type: none"> <li>Be sure to install the display driver from the display driver CD (or diskette) that comes with your display. Or, you can also download the driver from our web site: <a href="http://www.lg.com">http://www.lg.com</a>.</li> <li>Make sure to check if the graphics card supports Plug and Play function.</li> </ul>

<b>Some features are disabled.</b>	
Are some functions not available when you press the Menu button?	<ul style="list-style-type: none"> <li>The OSD is locked. Go to <b>Settings</b> &gt; <b>General</b> and set <b>OSD Lock</b> to <b>Off</b>.</li> </ul>

<b>The screen retains an image.</b>	
Does image sticking occur even when the monitor is turned off?	<ul style="list-style-type: none"> <li>Displaying a still image for a prolonged time may cause damage to the screen, resulting in the retention of the image.</li> <li>To extend the lifetime of the monitor, use a screensaver.</li> </ul>
<b>Screen display is unstable and shaky. / Images displayed on the monitor leave shadow trails.</b>	
Did you select the appropriate resolution?	<ul style="list-style-type: none"> <li>If the selected resolution is HDMI 1080i 60/50 Hz (interlaced), the screen may be flickering. Change the resolution to 1080p or the recommended resolution.</li> </ul>



### NOTE

- Vertical Frequency: In order to display an image, the screen must be refreshed dozens of times per second, like a fluorescent lamp. The number of times the screen is refreshed per second is called vertical frequency, or refresh rate, and is represented by Hz.
- Horizontal Frequency: The time it takes to display one horizontal line is called the horizontal cycle. If 1 is divided by the horizontal interval, the result is the number of horizontal lines displayed per second. This is called horizontal frequency and is represented by kHz.
- Check if the graphics card's resolution or frequency is within the range allowed by the monitor and set it to the recommended (optimal) resolution **Control Panel > Display > Settings** in Windows. (The settings may differ depending on the operating system (OS) you use.)
- Not setting the graphics card to the recommended (optimal) resolution may result in blurred text, a dimmed screen, a truncated display area or misalignment of the display.
- The setting methods may be different depending on the computer or operating system, and some resolutions may not be available depending on the performance of the graphics card. If this is the case, contact the manufacturer of the computer or graphics card for assistance.
- Some graphics cards may not support 2560 x 1440 resolution. If the resolution cannot be displayed, contact the manufacturer of your graphics card.

<b>The display color is abnormal.</b>	
Does the display appear discolored (16 colors)?	<ul style="list-style-type: none"><li>Set the color to 24 bit (true color) or higher. In Windows, go to <b>Control Panel &gt; Display &gt; Settings &gt; Color Quality</b>. (The settings may differ depending on the operating system (OS) you use.)</li></ul>
Does the display color appear unstable or monochrome?	<ul style="list-style-type: none"><li>Check if the signal cable is connected properly. Reconnect the cable or reinsert the PC's graphics card.</li></ul>
Are there spots on the screen?	<ul style="list-style-type: none"><li>When using the monitor, pixelated spots (red, green, blue, white, or black) may appear on the screen. This is normal for an LCD screen. It is not an error, nor is it related to the monitor's performance.</li></ul>
<b>No sound from the headphone port.</b>	
Are images displayed using DP (DisplayPort) or HDMI input without sound?	<ul style="list-style-type: none"><li>Make sure that the headphone port connections are made properly.</li><li>Try increasing the volume with the joystick.</li><li>Set the audio output of the PC to the monitor you are using. On Microsoft Windows, go to <b>Control Panel &gt; Hardware and Sound &gt; Sound &gt; set the Monitor as default device</b>. (The settings may differ depending on the operating system (OS) you use.)</li></ul>

# PRODUCT SPECIFICATION

LCD Screen	Type	TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Screen	
	Color Depth	HDMI	8-bit color is supported.
		DP (DisplayPort)	8-bit color is supported.
Pixel Pitch		0.2724 mm x 0.2724 mm	
Resolution	Max Resolution		2560 x 1440 @ 144 Hz
	Recommended Resolution		2560 x 1440 @ 60 Hz
Operating Frequency	HDMI	Horizontal Frequency	30 kHz to 230 kHz
		Vertical Frequency	50 Hz to 144 Hz
	DP	Horizontal Frequency	30 kHz to 230 kHz
		Vertical Frequency	50 Hz to 144 Hz
Input Connector	H/P  DP (DisplayPort) IN, USB  1/2, HDMI IN 1/2, USB UP  1/2		
Power Sources	Power Rating		19 V --- 5.0 A or 19 V --- 3.3 A
	Power Consumption (Typical)		Operating Mode: 44 W (Typical)* Sleep Mode: ≤ 0.5 W Off Mode: ≤ 0.3 W
AC/DC Adapter	ADS-110CL-19-3 190110G, manufactured by Honor Output: 19 V --- 5.79 A		
	DA-65G19, manufactured by Asian Power Devices Inc. LCAP39, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE Output: 19 V --- 3.42 A		

Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C
		Humidity	Less than 80 %
	Storing Conditions	Temperature	-20 °C to 60 °C
		Humidity	Less than 85 %
Dimensions	Monitor Size (Width x Height x Depth)		
	With Stand	715.2 x 493.9 x 272.2 (mm)	
	Without Stand	715.2 x 423.9 x 57.1 (mm)	
Weight (Without Packaging)	With Stand	8.3 kg	
	Without Stand	6.5 kg	

Specifications are subject to change without notice.

\* The Operating Mode of Power Consumption is measured with LGE test standard. (Full White pattern, Maximum resolution)

\* The Power Consumption level can be different by operating condition and monitor setting.

## Factory Support Mode

(Preset Mode, HDMI/ DisplayPort PC)

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
800 x 600	37.879	60.317	+/+	
1024 x 768	48.363	60.0	-/-	
1152 x 864	54.347	60.05	+/+	
1280 x 720	45	60	+/+	
1280 x 1024	63.981	60.02	+/+	
1600 x 900	60.00	60.00	+/+	
1680 x 1050	65.29	59.954	-/+	
1920 x 1080	67.50	60	+/-	
1920 x 1080	83.894	74.973	+/-	
2560 x 1440	88.79	59.95	+/-	
2560 x 1440	111.86	74.97	+/-	
2560 x 1440	183.0	120.0	+/-	*
2560 x 1440	222.19	144.0	+/-	*

\* When HDMI Compatibility Mode is on, 2560 x 1440 @ 120/144Hz resolution is not supported.

## HDMI Timing (Video)

Factory support mode (Preset Mode)	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remarks
480p	31.5	60	
720p	45.0	60	
1080p	67.5	60	
2160p	135	60	When HDMI Compatibility Mode is set to OFF.



Read the owner's manual (CD) carefully and keep it at hand. Please note that the label attached to the product provides information for technical support.

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download. LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.