LG
Life's Good

OWNER'S MANUAL

LED LCD COMPUTER MONITOR

(LED Computer Monitor*)

* Disclaimer : LG LED Monitor applies LCD screen with LED backlights.
This product is a computer monitor and not for television purpose.

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

32UL950
32BL95U

www.lg.com

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ENGLISH

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LICENSE

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

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

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

ASSEMBLING AND PREPARING

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.
- 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.

NOTE

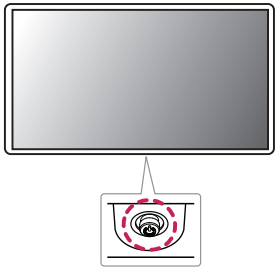
- The components may look different from those illustrated here.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or an online shopping 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

You can download and install the latest version from the enclosed CD or from the LGE website (*www.lg.com*).

Drivers and Software	Installation Priority
Monitor Driver	Recommended
OnScreen Control	Recommended
Dual Controller	Optional
True Color Pro	Optional

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/up/down with your finger.

Basic Functions

		**Power on**	Press the joystick button once with your finger to turn on the monitor.
		**Power off**	Press and hold the joystick button once more than 5 seconds with your finger to turn off the monitor.
	◄/►	**Volume control**	You can control the volume by moving the joystick button left/right.

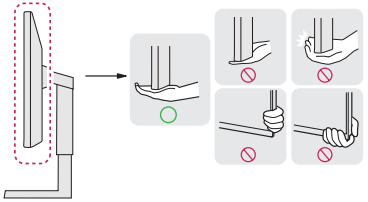
NOTE

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

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.



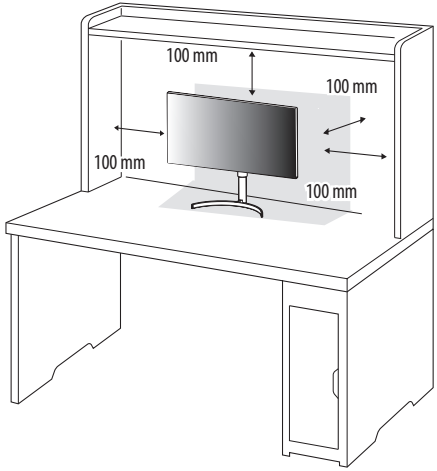


CAUTION

- 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 on a Table

- 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.

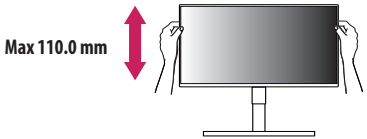


CAUTION

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

1. Place the monitor mounted on the stand base in an upright position.
2. 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 20° 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.

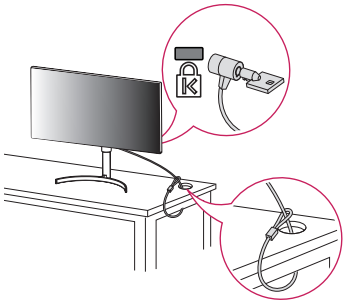


Using the Kensington Lock

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.

Installing the Wall Mount Plate

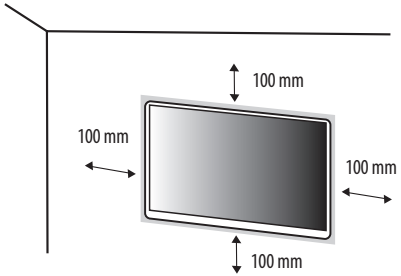
This monitor meets the specifications for the wall mount plate or other compatible devices.

NOTE

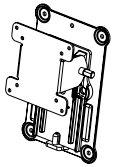
- The wall mount plate is sold separately.
- For more information on installation, refer to the wall mount plate's installation guide.
- Be careful not to apply too much force while mounting the wall mount plate as it may cause damage to the screen.
- Remove the stand before installing the monitor on a wall mount by performing the stand attachment in reverse.

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.

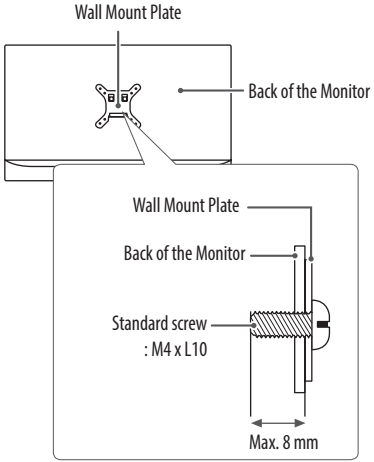
Wall Mount (mm)	100 x 100
Standard screw	M4 x L10
Number of screws	4
Wall Mount Plate (Optional)	RW120 

NOTE

- 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.
- 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. If you use screws longer than the standard length, it may damage the inside of the product.
- 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.
- To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions.
- 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

- 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 PC screensaver if possible.
- 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.

⚠ 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.

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.
- If you are using a Mini DisplayPort output graphics card, use a Mini DP to DP (Mini DisplayPort to DisplayPort) cable or gender that supports DisplayPort1.4. (Sold separately)

Thunderbolt™ 3 (⚡) Connection

You can connect your high-resolution display or high-performance data device to the monitor via a Thunderbolt™ 3(⚡) port.

NOTE

- The maximum data transmission rate of each port is 40 Gb/s.
- Make sure to use a Thunderbolt™ 3(⚡) certified cable. Otherwise, this may cause the device to malfunction.
- Thunderbolt™ 3(⚡) is supported in such environments as Windows 10 and Mac product.
- In accordance with Mac products may not support the recommended resolution or the some features.
- The ability to set up dual monitors using the Thunderbolt™ 3 (⚡) and daisy-chaining technology depends on the performance of your video card.

Connecting Peripherals

USB Device connection

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

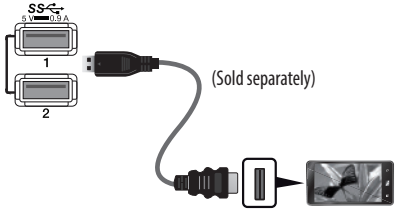
NOTE

- It is recommended you install all Windows Updates to keep your Windows up-to-date before connecting to the product for use.
- Peripheral devices are sold separately.
- A keyboard, mouse, or USB device can be connected to the USB port.
- 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.)



Case 1: Thunderbolt™ 3 (⚡) Input

Peripheral devices connected to the USB IN port can be controlled from the PC.

If you change the input on the menu while a device is in connection via the Thunderbolt™ 3 (⚡) port, then the device in connection via the USB port may not work properly.

[To use Thunderbolt cable]

Please connect the Thunderbolt cable to the PC.

To use USB 3.0, connect the Thunderbolt cable of the product to the PC.



[To use USB-C cable]

Please connect the USB-C cable to the PC.

To use USB 2.0, connect the USB-C cable of the product to the PC.



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Case 2: HDMI/DP (DisplayPort) Input

Peripheral devices connected to the USB IN port can be controlled from the PC.

[To use USB C-A cable]

Please connect the USB-C-A cable to the PC.

To use USB 3.0, connect the USB C-A cable of the product to the PC.



(Sold separately)

Headphones Connection

Connect peripherals to the monitor via the headphones port.

NOTE

- Peripheral devices are sold separately.
- Depending on the audio settings of the PC and external device, headphones and speaker functions may be limited.
- 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



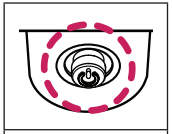
Straight
(Recommend)

USER SETTINGS

NOTE

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

Activating the Main Menu

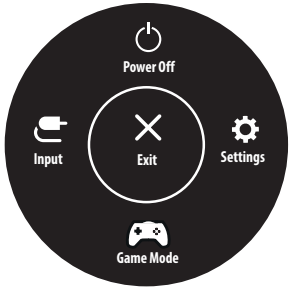


Joystick Button

1 Press the joystick button on the bottom of the monitor.
2 Move the joystick up/down and left/right to set the options.
3 Press the joystick button once more to exit the main menu.

Button	Menu Status		Description
	**Main menu disabled**		Enables the main menu.
	Main menu enabled		Exits the main menu. (Holding down the button more than 5 seconds to turn off the monitor. You can turn off the monitor this way at any time, including when the OSD is on.)
	◄	**Main menu disabled**	Adjusts the monitor volume level.
		Main menu enabled	Enters the [Input] features.
	►	**Main menu disabled**	Adjusts the monitor volume level.
		Main menu enabled	Enters the [Settings] feature.
	▲	**Main menu disabled**	Displays the information on the current input.
		Main menu enabled	Turns off the monitor.
	▼	**Main menu disabled**	Displays the information on the current input.
		Main menu enabled	Enters the [Game Mode] feature.

Main Menu Features



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

Menu Settings

1 To view the OSD menu, press the joystick button at the bottom of the monitor and then enter the [Settings].
2 Move the joystick up/down and left/right to set the options.
3 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing ( ) it.
4 If you want to exit the OSD menu, move the joystick to ◀ until you exit.



[Quick Settings] [Input] [Picture] [General]

NOTE

- : On
- : Off

Quick Settings

[Settings] > [Quick Settings]	Description
[Brightness]	Adjusts the contrast and brightness of the screen.
[Contrast]	
[Volume]	Adjusts the volume level. **NOTE** • You can adjust [Mute] / [Unmute] by moving the joystick button to ▼ in the [Volume] menu.

Input

[Settings] > [Input]	Description	
[Input List]	Selects the input mode.	
[Aspect Ratio]	Adjusts the aspect ratio of the screen.	
	[Full Wide]	Displays the video in widescreen, regardless of the video signal input.
	[Original]	Displays video according to the aspect ratio of the video signal input.
	NOTE • The display may look the same for [Full Wide] and [Original] options at the recommended resolution (3840 x 2160).	
[PBP]	Displays the screens of two input modes on one monitor.	
[Main/Sub Screen Change]	Toggles between the main screen and sub screen in [PBP] mode.	
[Main/Sub Sound Change]	Toggles between the audio of the main screen and sub screen in [PBP] mode.	

[PBP]

<table>
<tr><th>[Settings] > [Input]</th><th colspan="5">Description</th></tr>
<tr><td rowspan="6">[Input List]</td><td colspan="5">Displays the screens of two input modes on one monitor.</td></tr>
<tr><td>[Main Input List]</td><td colspan="4" rowspan="2">Please refer to the table below for possible PBP combinations.</td></tr>
<tr><td>[Sub Input List]</td></tr>
<tr><td colspan="2" rowspan="2">PBP Connection</td><td colspan="3">Sub Screen (Right)</td></tr>
<tr><td>HDMI</td><td>DP</td><td>USB-C / Thunderbolt™ 3 (⚡)</td></tr>
<tr><td rowspan="3">Main Screen (Left)</td><td>HDMI</td><td>-</td><td>0</td><td>0</td></tr>
<tr><td>DP</td><td>0</td><td>-</td><td>0</td></tr>
<tr><td>USB-C / Thunderbolt™ 3 (⚡)</td><td>0</td><td>0</td><td>-</td></tr>
<tr><td rowspan="4">[Aspect Ratio]</td><td colspan="5">Adjusts the aspect ratio of the screen.</td></tr>
<tr><td rowspan="2">[Main Aspect Ratio]</td><td>[Full Wide]</td><td colspan="3">Displays the video to fit the PBP screen, regardless of the video signal input.</td></tr>
<tr><td>[Original]</td><td colspan="3">Displays the video in the aspect ratio of the video signal input on the PBP screen.</td></tr>
<tr><td rowspan="2">[Sub Aspect Ratio]</td><td>[Full Wide]</td><td colspan="3">Displays the video to fit the PBP screen, regardless of the video signal input.</td></tr>
<tr><td>[Original]</td><td colspan="3">Displays the video in the aspect ratio of the video signal input on the PBP screen.</td></tr>
<tr><td>[PBP]</td><td colspan="5">You can disable the feature that displays images from two input modes simultaneously on one monitor.</td></tr>
<tr><td>[Main/Sub Screen Change]</td><td colspan="5">Toggles between the main screen and sub screen in [PBP] mode.</td></tr>
<tr><td>[Main/Sub Sound Change]</td><td colspan="5">Toggles between the audio of the main screen and sub screen in [PBP] mode.</td></tr>
</table>

Picture

NOTE

- The [Picture Mode] that can be set depends on the Input signal.

[[Picture Mode] on SDR (Non HDR) signal]

[Settings] > [Picture]	Description	
[Picture Mode]	[Custom]	Allows the user to adjust each element.
	[Vivid]	Heightens contrast, brightness and sharpness to display vivid images.
	[HDR Effect]	Optimizes the screen for high dynamic range.
	[Reader]	Optimizes the screen for reading documents. You can brighten the screen in the OSD menu.
	[Cinema]	Optimizes the screen to improve the visual effects of a video.
	[sRGB]	A standard RGB color space for the monitor and printer.
	[DCI-P3]	Suitable for watching digital videos.
	[FPS]	This mode is optimized for FPS games.
	[RTS]	This mode is optimized for RTS Game.
	[EBU]	A standard TV PAL color space for broadcasting.
	[REC709]	A standard HDTV color space for broadcasting.
	[SMPTE-C]	A standard TV NTSC color space for broadcasting.
	[Color Weakness]	This mode is for users who cannot distinguish between red and green. It enables users with color weakness to easily distinguish between the two colors.
	[Calibration 1]	Adjusts to the last calibrated screen.
	[Calibration 2]	Adjusts to the previously calibrated screen.
	NOTE • If the [Picture Mode] is changed in the DP (DisplayPort) input, the screen may flicker or the resolution of your PC screen may be affected. • [Calibration 2] : Installation of TRUE COLOR PRO will enable this menu.	

[[Picture Mode] on HDR signal]

[Settings] > [Picture]	Description	
[Picture Mode]	[Custom]	Allows the user to adjust each element.
	[Vivid]	Optimized the screen for HDR vivid colors.
	[Standard]	Optimized the screen for HDR standard.
	[Cinema]	Optimized the screen for HDR video.
	[FPS]	This HDR mode is optimized for FPS games.
	[RTS]	This HDR mode is optimized for RTS Game.
	NOTE • HDR content may not display correctly depending on Windows 10 OS settings, please check HDR On/Off settings in Windows. • When the HDR function is turned on, the characters or picture quality may be poor according to Graphic card performance. • 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.	

[Settings] > [Picture]	Description		
[Picture Adjust]	[Brightness]	Adjusts the color contrast and brightness of the screen.	
	[Contrast]		
	[Sharpness]	Adjusts the sharpness of the screen.	
	[SUPER RESOLUTION+]	[High]	Optimizes the screen for crystal clear images. Best for high-definition video or games.
		[Middle]	Optimizes the screen for comfortable viewing, with images at the middle level between the low and high modes. Best for UCC or SD videos.
		[Low]	Optimizes the screen for smooth and natural images. Best for still images or images with less movement.
		[Off]	Displays in the most common setting. Disables [SUPER RESOLUTION+].
		NOTE • Because this is a function to increase the sharpness of low resolution pictures, it is not recommended to use the function for normal text or for desktop icons. Doing so may result in unnecessarily high sharpness.	
	[Black Level]	Sets the offset level (for HDMI only). • Offset: as a reference for a video signal, this is the darkest color the monitor can display.	
		[High]	Keeps the current contrast ratio of the screen.
		[Low]	Lowers the black levels and raises the white levels from the current contrast ratio of the screen.
	[DFC]	Adjusts the brightness automatically according to the screen.	
	[Uniformity]	Adjusts uniformity of the image. **NOTE** • The Uniformity menu is activated only in Custom, sRGB, and Adobe RGB modes. Enabling Uniformity may reduce the overall brightness of the image.	

<table>
<tr><th>[Settings] > [Picture]</th><th colspan="2">Description</th></tr>
<tr><td rowspan="9">[Game Adjust]</td><td rowspan="5">[Response Time]</td><td colspan="2">Sets a response time for displayed pictures based on the movement of the picture on the screen.
For a normal environment, it is recommended that you use [Fast]. When there is a lot of motion, it is recommended that you use [Faster].
Setting to [Faster] may cause image sticking.</td></tr>
<tr><td>[Faster]</td><td>Sets the response time to faster.</td></tr>
<tr><td>[Fast]</td><td>Sets the response time to fast.</td></tr>
<tr><td>[Normal]</td><td>Sets the response time to normal.</td></tr>
<tr><td>[Off]</td><td>Does not use the response time improvement feature.</td></tr>
<tr><td rowspan="4">[FreeSync]</td><td colspan="2">Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal.
⚠ CAUTION
• Supported Interface: DisplayPort, HDMI
• Supported Graphic Card: A graphic card that supports AMD's FreeSync is necessary.
• Supported Version: Make sure to update the graphic card to the latest driver.
• For more information and requirement, refer to AMD website at http://www.amd.com/FreeSync.</td></tr>
<tr><td>[Extended]</td><td>Enable wider frequency range of FreeSync function than basic mode. The screen may flicker during the game play.</td></tr>
<tr><td>[Basic]</td><td>Enable basic frequency range of FreeSync function.</td></tr>
<tr><td>[Off]</td><td>[FreeSync] function off.</td></tr>
<tr><td>[Black Stabilizer]</td><td colspan="2">You can control the black contrast to have better visibility in dark scenes.
Increasing the [Black Stabilizer] value brightens the low gray level area on the screen. (You can easily distinguish objects on dark game screens.)
Reducing the [Black Stabilizer] value darkens the low gray level area and increases the dynamic contrast on the screen.</td></tr>
</table>

[Settings] > [Picture]	Description		
[Color Adjust]	[Gamma]	[Mode 1], [Mode 2], [Mode 3]	The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes.
		[Mode 4]	If you do not need to adjust the gamma settings, select [Mode 4].
	[Color Temp]	Set your own color temperature.	
		[Custom]	The user can customize the red, green and blue color.
		[6500K]	Sets the picture color to the color temperature of a reddish 6500K.
		[7500K]	Sets the picture color to the color temperatures of 7500K, setting to a color between red and blue.
		[9300K]	Sets the picture color to the color temperature of a bluish 9300K.
	[Red], [Green], [Blue]	You can customize the picture color using [Red], [Green], and [Blue] colors.	
	[Six Color]	Meets the user requirements for colors by adjusting the hue and saturation of the six colors (red, green, blue, cyan, magenta, and yellow) and then saving the settings.	
		[Hue]	Adjusts the tone of the screen colors.
		[Saturation]	Adjusts the saturation of the screen colors. The lower the value, the less saturated and brighter the colors become. The higher the value, the more saturated and darker the colors become.
[Picture Reset]	[Do you want to reset your picture settings?]	[Yes]	Returns to the default settings.
		[No]	Cancel the select.

General

[Settings] > [General]	Description	
[Language]	Sets the menu screen to the desired language.	
[SMART ENERGY SAVING]	Conserve energy by using luminance compensation algorithm.	
	[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 feature.
	NOTE • The value of energy saving data may differ depending on panel and panel suppliers. • If you select the option of [SMART ENERGY SAVING] is [High] or [Low], monitor luminance become higher or lower depend on source.	
[Power LED]	Turns the power LED on the front of the monitor on or off. **NOTE** • When the Power LED function is turned on, it operates as follows: - On Mode: White - Sleep Mode: White Blinking - Off Mode: 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])	
[DisplayPort Version]	Set DisplayPort Version to the same version as the connected external device. ([1.4], [1.2], and [1.1]) To use the HDR function, set to [1.4].	

<table>
<tr><th>[Settings] > [General]</th><th colspan="4">Description</th></tr>
<tr><td rowspan="8">[HDMI ULTRA HD Deep Color]</td><td colspan="4">Provides sharper images when connected to a device supporting ULTRA HD Deep Color.</td></tr>
<tr><td colspan="4">4K @ 60 Hz Support Format[ddd]</td></tr>
<tr><td rowspan="2">Resolution</td><td rowspan="2">Frame rate (Hz)</td><td colspan="2">Color Depth / Chroma Sampling</td></tr>
<tr><td>8 bit</td><td>10 bit</td></tr>
<tr><td rowspan="4">3840 x 2160</td><td rowspan="4">59.94
60.00</td><td colspan="2">YCbCr 4:2:0</td></tr>
<tr><td colspan="2">YCbCr 4:2:2</td></tr>
<tr><td>YCbCr 4:4:4</td><td>-</td></tr>
<tr><td>RGB 4:4:4</td><td>-</td></tr>
<tr><td colspan="4">NOTE
• To use [HDMI ULTRA HD Deep Color], turn this function [On].
• If the connected device does not support Deep Color, the screen or sound may not work properly. In this case, set this function to [Off].</td></tr>
<tr><td rowspan="4">[Local Dimming]</td><td colspan="4">Maximizes the contrast ratio by making the bright areas of the screen brighter and the dark areas of the screen darker.
NOTE
• Turning this option [Off] may increase energy consumption.</td></tr>
<tr><td colspan="2">[Off]</td><td colspan="2">Disables the feature.</td></tr>
<tr><td colspan="2">[On]</td><td colspan="2">Enables [Local Dimming].</td></tr>
<tr><td colspan="2">[Auto]</td><td colspan="2">Adjusts the contrast ratio automatically according to the screen for high dynamic range.</td></tr>
</table>

[Settings] > [General]	Description		
[Buzzer]	This feature lets you set the sound generated from [Buzzer] when your monitor powers on to [On] or [Off].		
[OSD Lock]	This feature disables the configuration and adjustment of menus.		
[Information]	The following display information will be shown; [Serial Number], [Total Power On Time], [Resolution].		
[Reset to Initial Settings]	[Do you want to reset your settings?]	[Yes]	Returns to the default settings.
		[No]	Cancel the reset.

TROUBLESHOOTING

Nothing is displayed on the screen.	
Is the monitor's power cord plugged in?	• Check if the power cord is correctly plugged into the power outlet.
Is the power LED on?	• Check the power cable connection and press the power button.
Is the power on and the power LED displaying white?	• Check that the connected input is enabled ([Settings] > [Input]).
Is the [No Signal] message being displayed?	• This is displayed when the signal cable between the PC and the monitor is missing or disconnected. Check the cable and reconnect it.
Is the [Out of Range] message being displayed?	• This occurs when signals transferred from the PC (graphics card) are out of the horizontal or vertical frequency range of the monitor. Please see the Product Specification section of this manual to set the appropriate frequency.
Screen display is unstable and shaky. / Images displayed on the monitor leave shadow trails.	
Did you select the appropriate resolution?	• 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. • 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.
Does image sticking occur even when the monitor is turned off?	• Displaying a still image for a prolonged time may cause damage to the screen, resulting in the retention of the image. • To extend the lifetime of the monitor, use a screensaver.
Are there spots on the screen?	• When using the monitor, pixilated 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.
Some features are disabled.	
Are some functions not available when you press the Menu button?	• The OSD is locked. Disable [OSD Lock] in [General].

Do you see an "Unrecognized monitor, Plug and Play (VESA DDC) monitor found" message?	
Have you installed the display driver?	• 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: *http://www.lg.com*. • Make sure to check if the graphics card supports Plug and Play function.
No sound from the headphone port.	
Are images displayed without sound?	• Make sure that the headphone port connections are made properly. • Try increasing the volume with the joystick. • Set the audio output of the PC to the monitor you are using. (The settings may differ depending on the operating system (OS) you use.)
4K resolution is unavailable.	
Did you check the cable connection?	• Check if the cable is properly connected. • It is recommended to use the accessories supplied with the product.
Is the resolution and refresh rate set properly?	• Set the proper resolution and refresh rate in the PC screen resolution settings or the player's option menu.
Does the connected external device support 4K resolution?	• It is available only on external devices that support 4K resolution. • Check if the connected external device supports 4K resolution.
Is the [HDMI ULTRA HD Deep Color] function enabled?	• Go to [Settings] > [General] > [HDMI ULTRA HD Deep Color] function to enable the function.

PRODUCT SPECIFICATION

Color Depth	8-bit / 10-bit color is supported.		
Resolution	Max Resolution	3840 x 2160 @ 60 Hz	
	Recommended Resolution	3840 x 2160 @ 60 Hz	
Power Sources	Power Rating	19.5 V ⎓ 9.0 A	
	Power Consumption (Typical)	Operating Mode: 70 W (Typical)* Sleep Mode: ≤ 1.2 W Off Mode: ≤ 0.3 W	
AC/DC Adapter	ACC-LATP1 type, manufactured by SHENZHEN HONOR ELECTRONIC CO., LTD Input: 100-240 V ~50/60 Hz 3.0A Output: 19.5 V ⎓ 10.8 A		
Environmental Conditions	Operating Conditions	Temperature	0 ℃ to 40 ℃
		Humidity	Less than 80 %
	Storing Conditions	Temperature	-20 ℃ to 60 ℃
		Humidity	Less than 85 %
Dimensions	Monitor Size (Width x Height x Depth)		
	With Stand (mm)	718.2 x 598.0 x 231.2	
	Without Stand (mm)	718.2 x 414.3 x 45.1	
Weight (Without Packaging)	With Stand (kg)	7.3	
	Without Stand (kg)	5.9	

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, PC)

DisplayPort/Thunderbolt™ 3/ USB-C

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	-/-	
1152 x 864	54.347	60.05	+/+	
1280 x 720	45.00	60.00	+/+	
1280 x 800	49.702	59.810	-/+	
1280 x 1024	63.981	60.02	+/+	
1600 x 900	60.00	60.00	+/+	
1920 x 1080	67.5	60	+/-	
1920 x 2160	133.32	60	+/-	PBP Only
2560 x 1440	88.79	59.95	+/-	
3840 x 2160	66.66	30	+/-	
3840 x 2160	133.32	60	+/-	DP/USB-C/Thunderbolt™ 3(⚡) Preferred timing

HDMI

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	-/-	
1152 x 864	54.347	60.05	+/+	
1280 x 720	45.00	60.00	+/+	
1280 x 800	49.702	59.810	-/+	
1280 x 1024	63.981	60.02	+/+	
1600 x 900	60.00	60.00	+/+	
1920 x 1080	67.5	60	+/-	
1920 x 2160	133.29	60	+/-	PBP Only
2560 x 1440	88.79	59.95	+/-	
3840 x 2160	67.5	30	+/-	HDMI1.4 Preferred timing, [HDMI ULTRA Deep Color] : [Off]
3840 x 2160	135	60	+/-	HDMI2.0 Preferred timing, [HDMI ULTRA Deep Color] : [On]



This device can be used in all regions. 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.