LG
Life's Good

Owner's Manual

IPS LED MONITOR (LED MONITOR*)

*LG LED Monitors are LCD Monitors with LED Backlighting.

Please read the safety information carefully before using the product.

IPS LED Monitor (LED Monitor) Model List

34UM59
34UM59B
34UM59R

www.lg.com

ENGLISH

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LICENSE

Each model has different licenses. Visit www.lg.com for more information on the license.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

The following content is only applied to the monitor which is sold in Europe market and which needs to meet the ErP Directive:
* This monitor is set to be turned off automatically in 4 hours after you turned on display if there is no adjustment to display.
* To make this setting be disabled, change the option to 'Off' in OSD menu of "Automatic Standby".

ASSEMBLING AND PREPARING

Product Components

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

CD(Owner's Manual) / Card

Power Cord

AC-DC Adapter

(Depending on the country)

or

AC-DC Adapter

(Depending on the country)

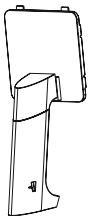
HDMI Cable

(This cable is not included in all countries.)

or

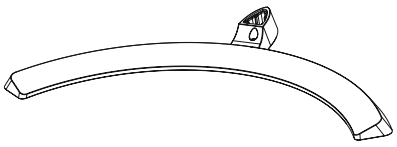
HDMI-DVI Cable

(This cable is not included in all countries.)



Stand Body

Cable Holder



Stand Base

CAUTION

- Always use genuine components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of counterfeit components.
- It is recommend 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

- Note that the components may look different from those shown here.
- Without prior notice, all information and specifications in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or online shopping site or contact the retail store where you purchased the product.

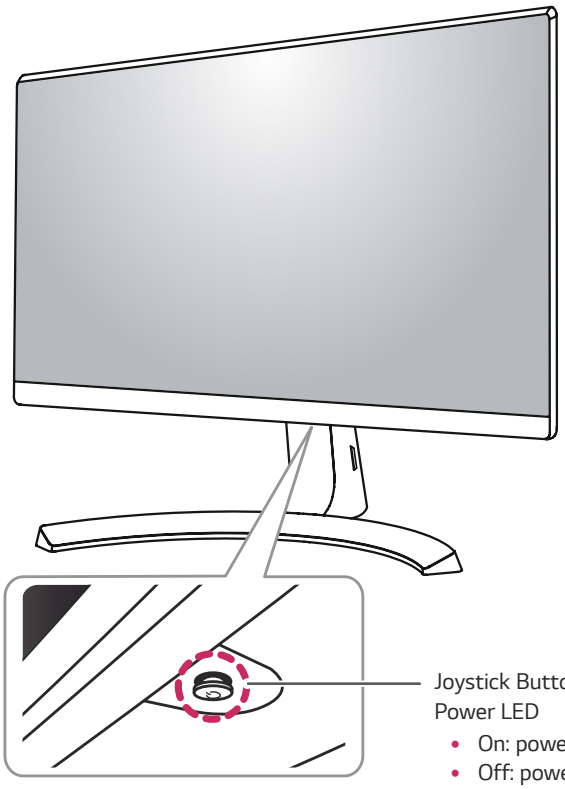
Supported Drivers and Software

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	34UM59/34UM59B/34UM59R
Monitor Driver	Recommended	O
OnScreen Control	Recommended	O
Dual Controller	Optional	O

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

Component 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.

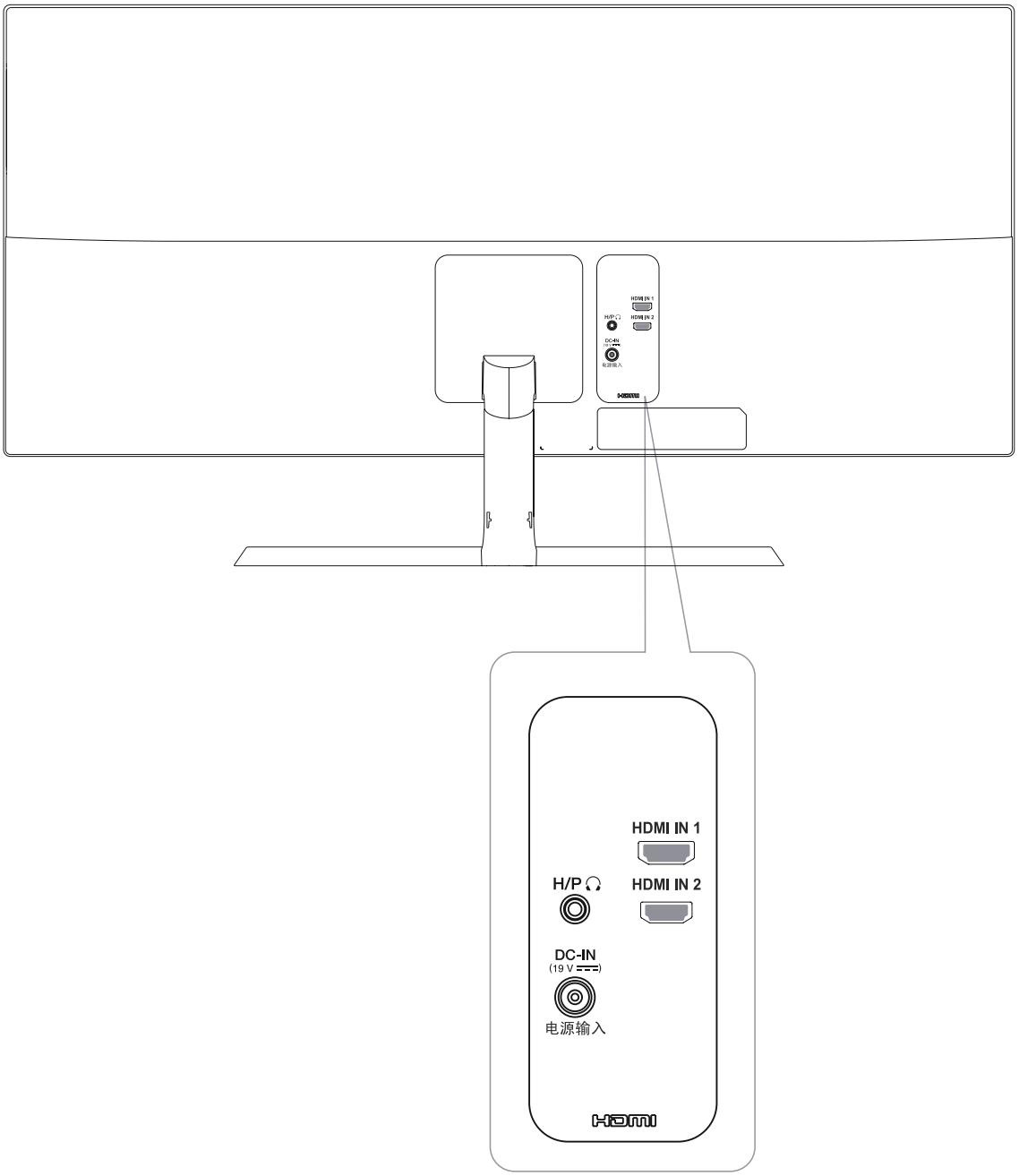
Basic Functions

		Power on	Press the joystick button once with your finger to turn on the monitor.
		Power off	Press and hold the joystick button once 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.

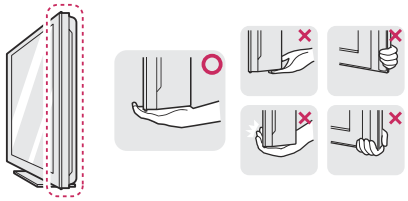
Input Connector



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.

- It is advisable to 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 cables.
- Hold the top and bottom of the monitor frame firmly. Do not hold the panel itself.

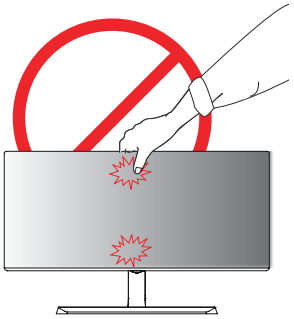


- When holding the monitor, the screen should face away from you to prevent it being scratched.

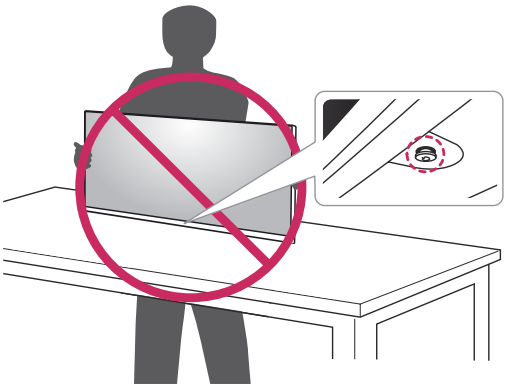
- When moving the monitor, avoid any strong shock or vibrations to the product.
- When moving the monitor, keep it upright, never turn the monitor on its side or tilt it sideways.

CAUTION

- As far as possible, avoid touching the monitor screen. This may result in damage to the screen or some of the pixels used to create images.



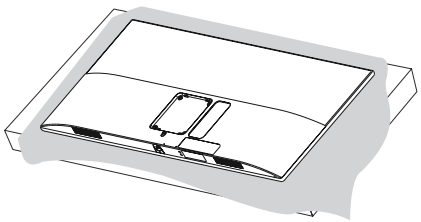
- If you use the monitor panel without the stand base, its joystick button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the joystick button to malfunction.



Installing the Monitor

Assembling the stand base

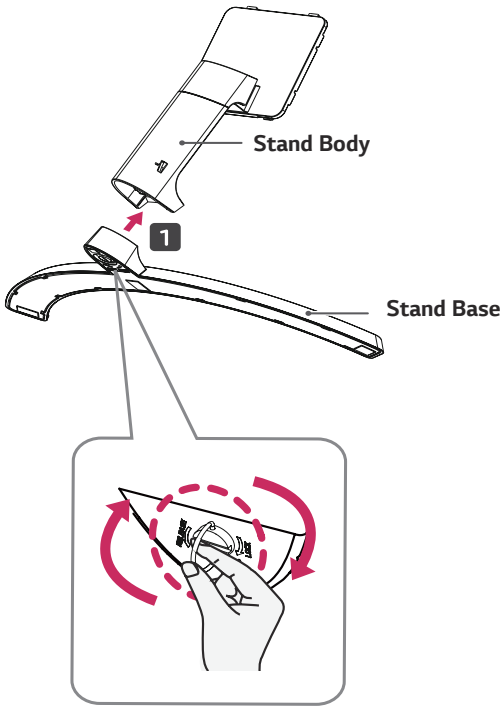
1



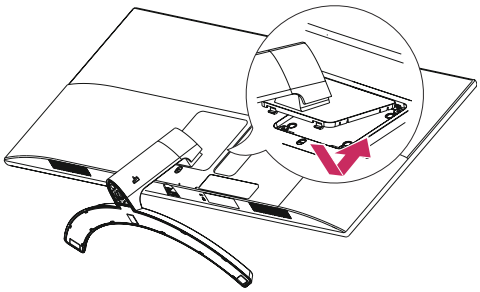
CAUTION

- To protect the screen from scratches, cover the surface with a soft cloth.

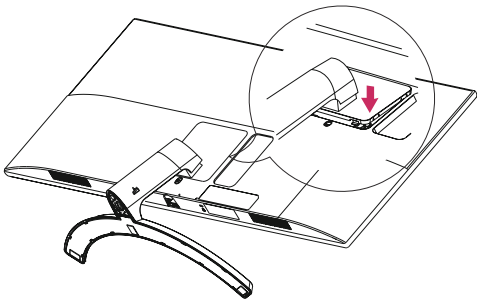
2



3

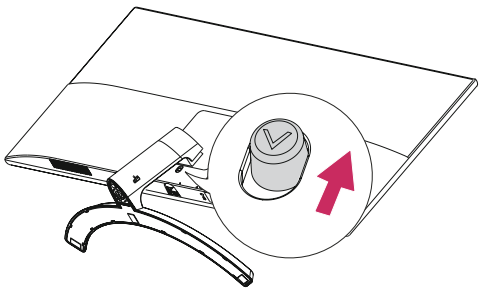


4



NOTE

- Press the stand until the button reaches the top.



CAUTION

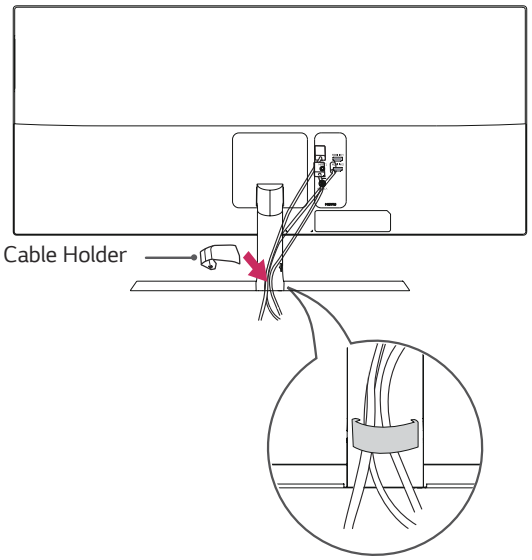
- Illustrations in this document represent typical procedures, so they may look different from the actual product.
- Applying excessive force when tightening screws may cause damage to the monitor. Damage caused in this way will not be covered by the product warranty.
- Do not carry the monitor upside 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

- You can disassemble the stand in the reverse order of the assembly.

Using the cable holder

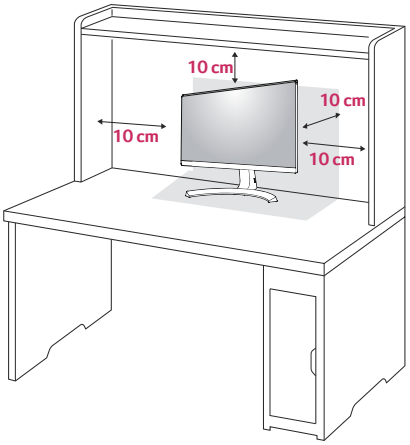
Arrange the cables using the cable holder as shown in the illustration.



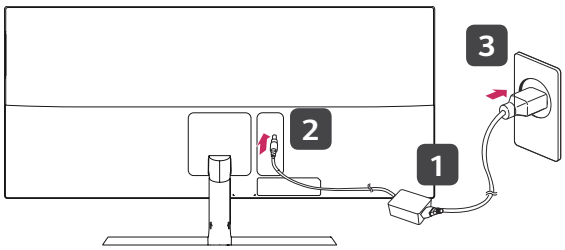
Installing onto a table

1 Lift the monitor and place it on the table in an upright position.

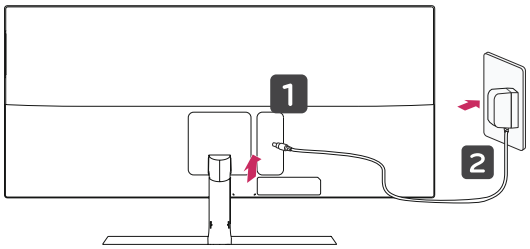
Place at least **10 cm** away from the wall to ensure sufficient ventilation.



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



or

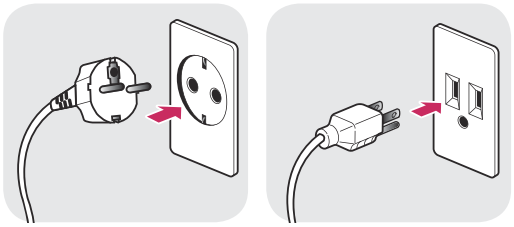


3 Press the joystick button on the bottom of the monitor to turn on the monitor.

CAUTION

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

Cautions When Connecting Power Cord



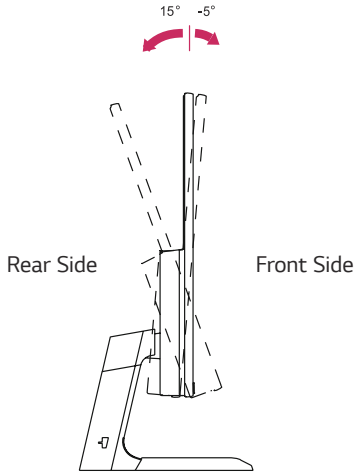
100-240 V ~

- 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 angle

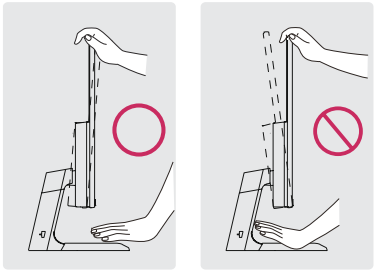
1 Place the monitor in an upright position, mounted on the stand base.

2 Adjust the angle of the screen. The angle of the screen can be adjusted forwards or backwards for a comfortable viewing experience.

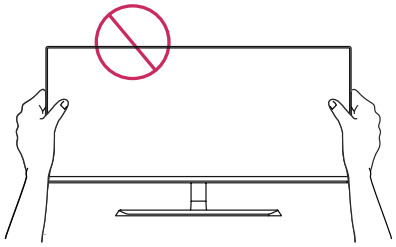


WARNING

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

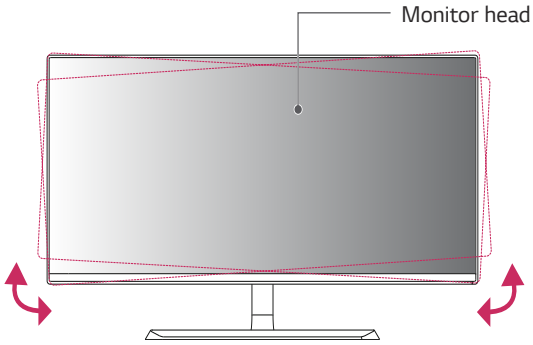


- Be careful not to touch or press the screen area when adjusting the angle of the monitor.



NOTE

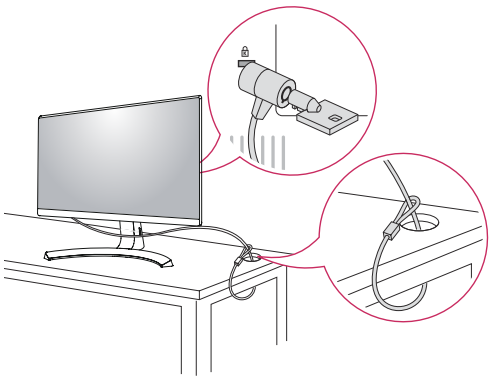
- The left or right side of the monitor head can be slightly rotated up or down (up to 3°). Adjust the horizontal level of the monitor head.



Using the Kensington lock

The Kensington security system connector is located at the back of the Monitor set.
For more information on installation and usage, refer to the Kensington lock user manual or visit the website at http://www.kensington.com.

Connect the Kensington security system cable between the Monitor set and a table.



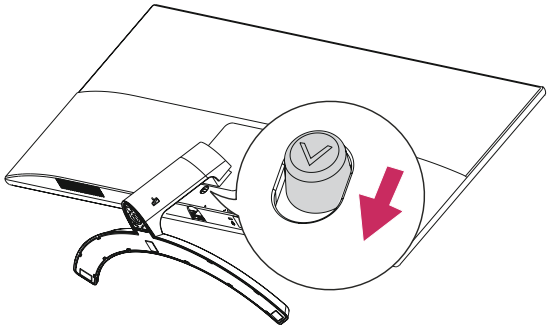
NOTE

- Use of the Kensington lock is optional.
  The accessories can be purchased at your local electronics store.

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 supports the specification of the standard wall mount plate or compatible device.

1 Place the screen face down. To protect the screen from scratches, cover the surface with a soft cloth.

2 Place the wall mount plate onto the monitor and align it with the screw holes.

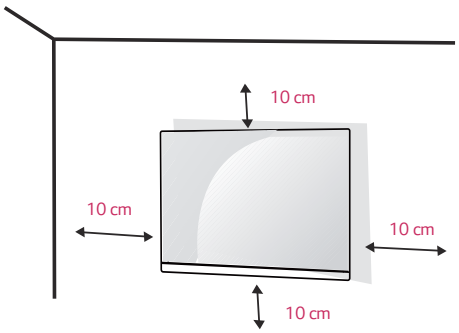
3 Tighten the four screws to fix the plate to the monitor using a screwdriver.

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 use excessive force when mounting the wall mount plate, as this can damage the monitor's screen.

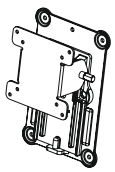
Installing to a wall

Install the monitor at least 10 cm away from the wall and leave about 10 cm of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Please refer to the manual to install and set up a tilting wall mounting bracket.

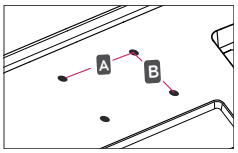


To install the monitor to a wall, attach a wall mounting bracket (optional) to the back of the monitor.
Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

1 If you use screw longer than standard, the monitor might be damaged internally.
2 If you use improper screw, the product might be damaged and drop from mounted position.
In this case, LG Electronics is not responsible for it.

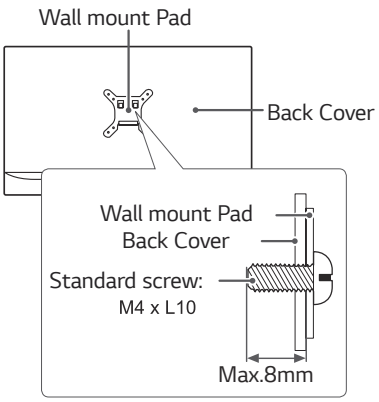
Wall Mount (A x B)	100 x 100
Standard screw	M4 x L10
Number of screws	4
Wall Mount Plate (Optional)	RW120 

- Wall Mount (A x B)



CAUTION

- Unplug the power cord before moving or installing the monitor to avoid electric shocks.
- Installing the monitor on the ceiling or on a slanted wall may result in the monitor falling off, which could lead to injury. Please use the genuine LG wall mounting bracket. For more information, contact your local retail store or a qualified installer.
- Applying excessive force when fastening 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 the VESA standard. Damage caused by the use or misuse of inappropriate components will not be covered by the product warranty.
- Screw length from outer surface of back cover should be under 8mm.



NOTE

- Use the screws specified by the VESA standard.
- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. The accessories can be purchased at your local retail store.
- The length of the screw may differ for each wall mounting bracket. Ensure the correct length screw is used.
- For more information, please refer to the user manual for the wall mounting bracket.

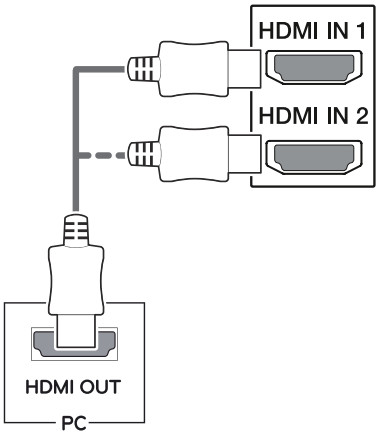
USING THE MONITOR

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 the digital video and audio signals from your PC and A/V devices to the monitor. Connect your PC and AV device to the monitor with the HDMI cable as illustrated below.
Press the menu button and then select the input option from the input menu.



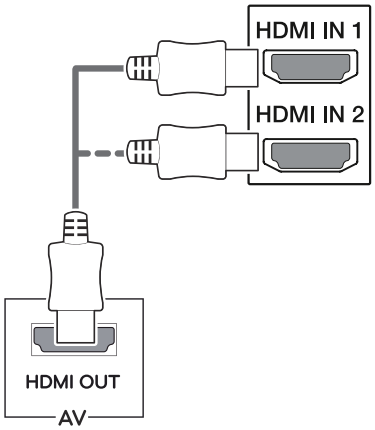
NOTE

- If you use HDMI PC, it can cause compatibility problem.
- 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 to AV Devices

HDMI connection

Transmits the digital video and audio signals from your PC and A/V devices to the monitor. Connect your PC and AV device to the monitor with the HDMI cable as illustrated below.
Press the menu button and then select the input option from the input menu.

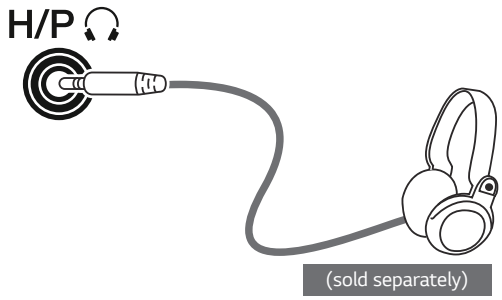


NOTE

- If you use HDMI PC, it can cause compatibility problem.
- 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 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

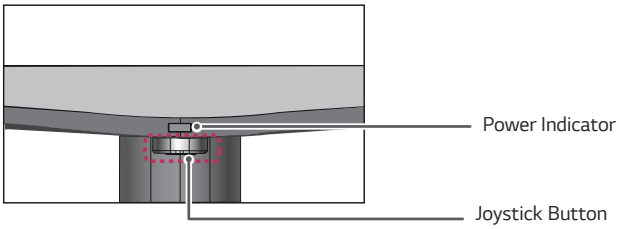
Straight

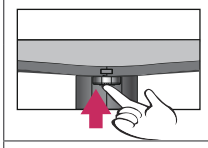
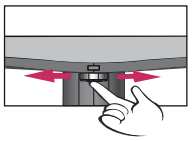
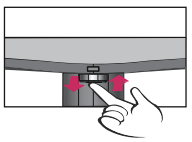
- Depending on the audio settings of the PC and external device, headphones and speaker functions may be limited.

CUSTOMIZING SETTINGS

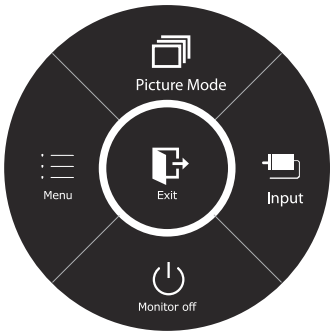
Activating the Main Menu

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 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 menu features.
	▶	**Main menu disabled**	Adjusts the monitor volume level.
		Main menu enabled	Operates the Input change.
	▲	**Main menu disabled**	Enables the main menu.
		Main menu enabled	Enters the picture mode feature.
	▼	**Main menu disabled**	Enables the main menu.
		Main menu enabled	Turns off the monitor.

Main Menu Features



Long Press: Monitor Off

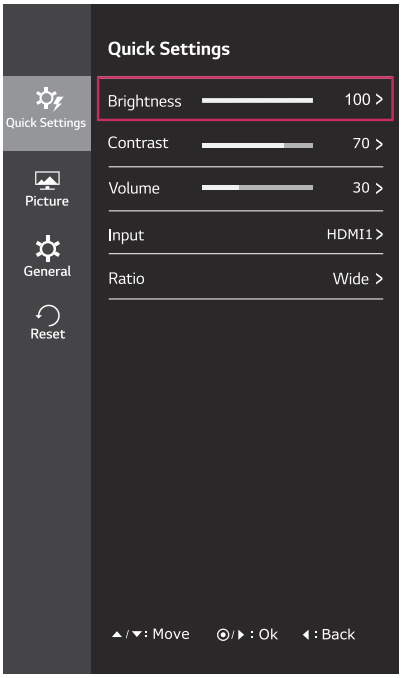
Main Menu	Description
Menu	Configures the screen settings.
Picture Mode	Select picture mode to achieve the best display effect.
Input	You can choose the input signal. • When two input signals are connected, you can select the input signal you want.
Monitor off	Turns off the monitor.
Exit	Exits the main menu.

Customizing settings

Menu Settings

-Quick Settings

1 To view the **OSD menu**, press the **joystick button** at the bottom of the monitor and then enter the **Menu**.
2 Go to **Quick Settings** > **Brightness** by moving the joystick.
3 Configure the options following the instructions that appear in the bottom right corner.
4 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (◉ / OK) it.
5 If you want to exit the OSD menu, move the joystick to ◀ until you exit.



Each option is described below.

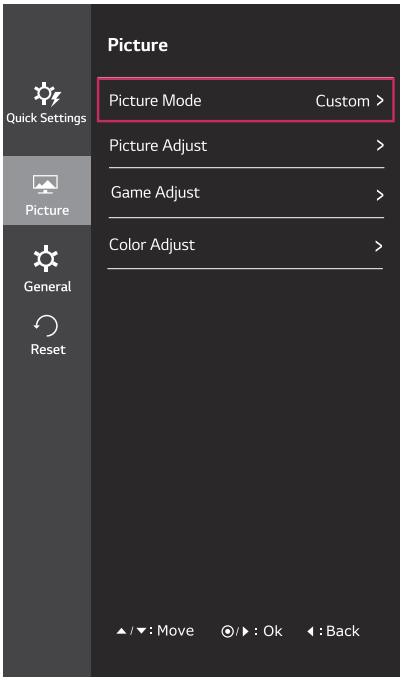
Menu > Quick Settings	Description	
Brightness	Adjusts the color contrast and brightness of the screen.	
Contrast		
Volume	Adjusts the volume.	
	NOTE • Jog joystick button down (⏻) in the Volume menu will enable/disable the Mute function.	
Input	Selects the current input mode.	
Ratio	Adjusts the screen ratio.	
	Wide	Displays the video in wide-screen, regardless of the video signal input.
	Original	Displays a video according to the input video signal aspect ratio.

NOTE

- The display may look the same for Wide, Original options at the recommended resolution (2560 x 1080).
- The ratio is disabled in the interlaced signal.

-Picture

1. To view the **OSD menu**, press the **joystick button** at the bottom of the monitor and then enter the **Menu**.
2. Go to **Picture** by moving the joystick.
3. Configure the options following the instructions that appear in the bottom right corner.
4. To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (◉ / OK) it.
5. If you want to exit the OSD menu, move the joystick to ◀ until you exit.



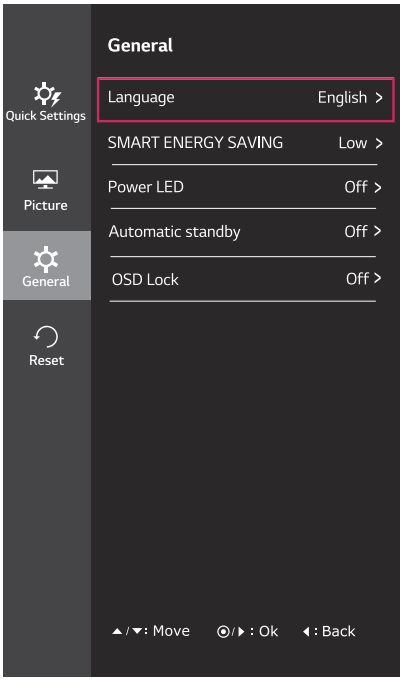
Each option is described below.

Menu > Picture	Description		
Picture Mode	**Custom**	Allows the user to adjust each element. The color mode of the main menu can be adjusted.	
	Reader	It is a mode that the screen is adjusted to the best for the newspaper. If you want screen more bright, you can control brightness in Menu OSD.	
	Photo	Optimizes the screen to view photos.	
	Cinema	Optimizes the screen to improve the visual effects of a video.	
	FPS 1	This mode is optimized for FPS games.	
	FPS 2	It has a higher Black Stabilizer value than FPS Game 1. It is suitable for very dark FPS games.	
	RTS	This mode is optimized for RTS Game.	
	Custom (Game)	In this mode, users can customize various elements including game-related options.	
Picture Adjust	**Sharpness**	Adjusts the sharpness of the screen.	
	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.	

<table>
<tr><td rowspan="10">Game Adjust</td><td>Black Stabilizer</td><td colspan="2">Black Stabilizer
: 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>
<tr><td rowspan="5">Response Time</td><td colspan="2">Sets a response time for displayed pictures based on the speed of the screen. For a normal environment, it is recommended that you use Normal. For a fast-moving picture, it is recommended that you use High.
Setting to High may cause image sticking.</td></tr>
<tr><td>High</td><td>Sets the response time to High.</td></tr>
<tr><td>Middle</td><td>Sets the response time to Middle.</td></tr>
<tr><td>Low</td><td>Sets the response time to Low.</td></tr>
<tr><td>Off</td><td>Sets the response time to Off.</td></tr>
<tr><td>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.
NOTE
• To use the FreeSync feature, a graphic card that supports FreeSync is necessary.
• Supported Interface: HDMI
• For more information, refer to AMD website at http://www.amd.com/FreeSync</td></tr>
<tr><td>On</td><td>FreeSync function on.</td></tr>
<tr><td>Off</td><td>FreeSync function off.</td></tr>
<tr><td rowspan="6">Color Adjust</td><td>Gamma</td><td colspan="2">The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes. If you do not need to adjust the gamma settings, select Off.</td></tr>
<tr><td rowspan="3">Color Temp</td><td colspan="2">Selects the factory default picture color.
Warm: Sets the screen color to a reddish tone.
Medium: Sets the screen color between a red and blue tone.
Cool: Sets the screen color to a bluish tone.</td></tr>
<tr><td colspan="2">Custom</td></tr>
<tr><td>Red
Green
Blue</td><td>You can customize the picture color using Red, Green, and Blue colors.</td></tr>
<tr><td rowspan="2">Six Color</td><td colspan="2">Meets the user requirements for colors through adjusting the color and saturation of the six colors(Red_Hue, Red_Saturation, Green_Hue, Green_Saturation, Blue_Hue, Blue_Saturation, Cyan_Hue, Cyan_Saturation, Magenta_Hue, Magenta_Saturation, Yellow_Hue, Yellow_Saturation) and saving the settings.</td></tr>
<tr><td colspan="2">*Hue: Adjusts tone of the screen.
*Saturation: Adjusts the saturation of the screen colors. The lower the value, less saturated and bright the colors become. The higher the value, the more saturated and dark the colors become.</td></tr>
<tr><td>Reset</td><td colspan="2">Returns the color settings to the default settings.</td></tr>
</table>

-General

1 To view the **OSD menu**, press the **joystick button** at the bottom of the monitor and then enter the **Menu**.
2 Go to **General** by moving the joystick.
3 Configure the options following the instructions that appear in the bottom right corner.
4 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (◉ / OK) it.
5 If you want to exit the OSD menu, move the joystick to ◀ until you exit.



Each option is described below.

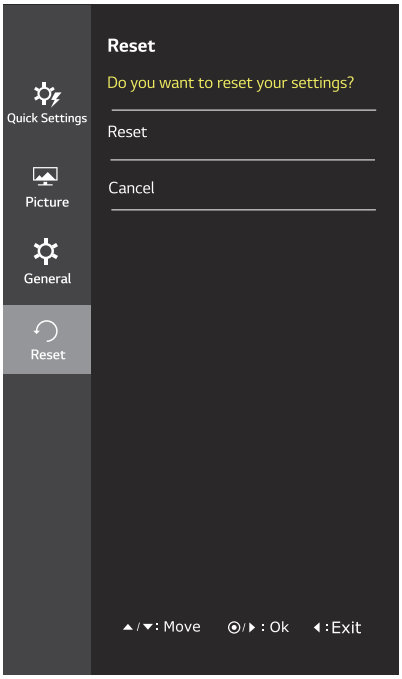
Menu > General	Description	
Language	To choose the language in which the control names are displayed.	
SMART ENERGY SAVING	**High**	Enables SMART ENERGY SAVING you can save energy with this energy- high efficient function.
	Low	Enables SMART ENERGY SAVING you can save energy with this energy- low efficient function.
	Off	Disables SMART ENERGY SAVING .
Power LED	Turns the power indicator on the front side of the monitor on/off.	
	On	The power indicator is automatically turned on.
	Off	The power indicator is automatically turned off.
Automatic Standby	The monitor will automatically switch to standby mode after a certain period.	
OSD Lock	Prevents incorrect key input.	
	On	Key input is disabled.
	NOTE All functions except for the OSD Lock mode and the Exit button for Brightness, Contrast, Volume, Input, and General are disabled.	
	Off	Key input is enabled.

NOTE

- SMART ENERGY SAVING: Conserve energy by using luminance compensation algorithm.
- Saving Data depends on the Panel. So,those values should be different from each panel and panel vendor.If option of SMART ENERGY SAVING is High or Low, monitor luminance become higher or lower depend on source.

-Reset

1 To view the **OSD menu**, press the **joystick button** at the bottom of the monitor and then enter the **Menu**.
2 Go to **Reset** by moving the joystick.
3 Configure the options following the instructions that appear in the bottom right corner.
4 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (◉ / OK) it.
5 If you want to exit the OSD menu, move the joystick to ◀ until you exit.

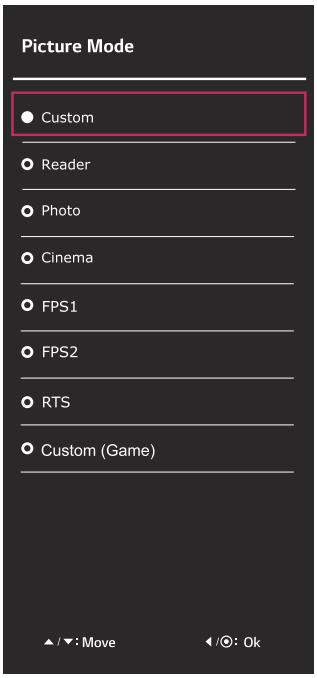


Each option is described below.

Menu > Reset	Description
Do you want to reset your settings?	
Reset	Returns to the default settings.
Cancel	Cancel the select.

-Picture Mode

1 Press the joystick button on the bottom of the monitor.
2 Go to **Picture mode** by moving the joystick button to ▲.
3 Configure the options following the instructions that appear in the bottom.



Each option is described below.

Menu > Picture Mode	Description	
Picture Mode	**Custom**	Allows the user to adjust each element. The color mode of the main menu can be adjusted.
	Reader	It is a mode that the screen is adjusted to the best for the newspaper. If you want screen more bright, you can control brightness in Menu OSD.
	Photo	Optimizes the screen to view photos.
	Cinema	Optimizes the screen to improve the visual effects of a video.
	FPS 1	This mode is optimized for FPS games.
	FPS 2	It has a higher Black Stabilizer value than FPS Game 1. It is suitable for very dark FPS games.
	RTS	This mode is optimized for RTS Game.
	Custom (Game)	In this mode, users can customize various elements including game-related options.

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 (Menu > Quick Settings > Input).
Is the power LED blinking?	• If the monitor is in sleep mode, move the mouse, or press any key on the keyboard, to switch the display on. • Check if the computer is turned on.
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.
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.

The OSD lock message is being displayed.	
Are some functions not avail-able when you press the Menu button?	• The OSD is locked. Go to Menu > General and set OSD Lock to Off.

The screen retains an image.	
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.

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.

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.

NOTE

- 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 in **Control Panel > Display > settings**.
- 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 × 1080 resolution. If the resolution cannot be displayed, contact the manufacturer of your graphics card.

The display color is discoloured.	
Does the display appear discoloured (16 colors)?	• Set the color to 24 bit (true color) or higher. In Windows, go to control Panel > Display > Settings > Color Quality.
Does the display color appear unstable or monochrome?	• Check if the signal cable is connected properly. Reconnect the cable or reinsert the PC's graphics card.
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.

Do you see an "Unrecognized monitor, Plug&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 video card supports Plug&Play function.

SPECIFICATIONS

34UM59 34UM59B 34UM59R

	Type	TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Screen	
	Pixel Pitch	0.312 mm x 0.310 mm	
Resolution	Maximum Resolution	2560 × 1080 @ 60 Hz	
	Recommended Resolution	2560 × 1080 @ 60 Hz	
Video Signal	Horizontal Frequency	30 kHz to 90 kHz	
	Vertical Frequency	56 Hz to 75 Hz	
Input Connector	HDMI IN1, HDMI IN2, H/P		
Power	Voltage	19 V ⎓ 2.0 A	
	Power consumption (Typ.)	On mode: 27.3 W Typ. (ENERGY STAR® standard) * 34.6 W Typ. (Outgoing condition) ** Sleep Mode ≤ 0.5 W Off Mode ≤ 0.3 W	
AC/DC adaptor	Type ADS-45SN-19-3 19040G, SHENZHEN HONOR ELECTRONIC production Or type LCAP21C, LIEN CHANG ELECTRONIC ENTERPRISE production Or type LCAP26B-E, LIEN CHANG ELECTRONIC ENTERPRISE production Output: 19 V ⎓ 2.1 A		
Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C
		Humidity	Less than 80 %
	Storing Condition	Temperature	-20 °C to 60 °C
		Humidity	Less than 85 %
Stand Angle Adjustment	Forwards/Backwards: -5° to 15° (Head)		
Dimension	Monitor Size (Width x Height x Depth)		
	With Stand	828.5 mm x 222.4 mm x 460.2 mm	
	Without Stand	828.5 mm x 41.5 mm x 370.2 mm	
Weight (Without Packaging)	With Stand	7.1 kg	
	Without Stand	6.1 kg	

The specifications are subject to change without notice.

* The power consumption level can be different by operating condition and monitor setting.
* The On mode power consumption is measured with ENERGY STAR® test standard.
**The On mode power consumption is measured with LGE test standard(Full White pattern,Maximumresolution).

Factory Support Mode (Preset Mode, PC)

HDMI

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
720 x 400	31.468	70.08	-/+	
640 x 480	31.469	59.94	-/-	
640 x 480	37.5	75	-/-	
800 x 600	37.879	60.317	+/+	
800 x 600	46.875	75	+/+	
1024 x 768	48.363	60	-/-	
1024 x 768	60.123	75.029	+/+	
1152 x 864	67.5	75	+/+	
1280 x 720	45	60	+/+	
1280 x 1024	63.981	60.02	+/+	
1280 x 1024	79.976	75.025	+/+	
1600 x 900	60	60	+/+	
1680 x 1050	65.290	59.954	-/+	
1920 x 1080	67.5	60	+/-	
2560 x 1080	66.7	60	-/+	

HDMI Timing (Video)

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remarks
480P	31.50	60	
576P	31.25	50	
720P	37.50	50	
720P	45.00	60	
1080P	56.25	50	
1080P	67.50	60	

Power Indicator

Mode	LED Color
On Mode	Light On
Power-saving	Blinking
Off Mode	Off

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

This device meets the EMC requirements for home appliances (Class B) and is intended for home usage. 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 _____

ENERGY STAR® is a set of power-saving guidelines issued by the U.S.Environmental Protection Agency (EPA).

As an ENERGY STAR® Partner LGE U. S. A., Inc. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Refer to ENERGYSTAR.gov for more information on the ENERGY STAR® program.