Owner's Manual

LED LCD 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.

27BQ70QC

www.lg.com

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

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 unauthorised components.
- It is recommended that use the supplied components.
- 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.
- 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

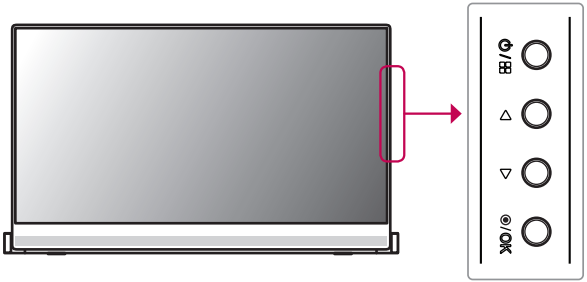
- The components may look different from those illustrated here.
- Without prior notice, all product information and specifications contained in this manual are subject to change to improve the performance of the product.
- To purchase optional accessories, visit an electronics store or an online shopping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

Supported Software

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

- Monitor Driver/ OnScreen Control/ Dual Controller

Product and Button Description

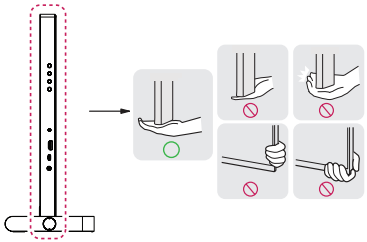


Button	Description	
⏻ (Power)	Power off state	Press the button once to turn on the monitor.
	Power on state	Press and hold the button once for five seconds or longer to turn off the monitor.
⊞ (Menu)	Press the button once to set the screen.	
△/▽	Adjusts the volume.	
◉/OK	Displays information about the current input.	

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.





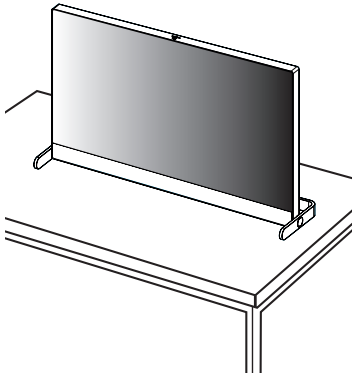
CAUTION

- 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.

Installing on a Table

After folding the stand to secure it, lift the monitor and place it on the table in an upright position.

A-Type



CAUTION

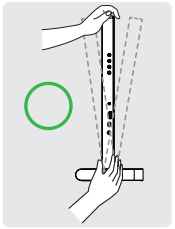
- Make sure the table on which the product is installed is stable and solid. A table made of fragile materials such as glass may be damaged.
- The monitor may tilt on uneven or slanted tables.
- Installation of the stand may leave a mark on the table.
- Avoid falls by verifying that the table is large enough to support the monitor.
- 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.

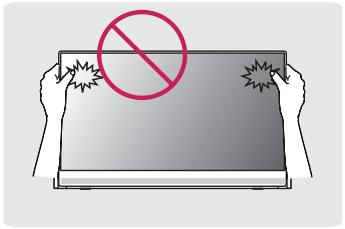
Adjusting the Angle

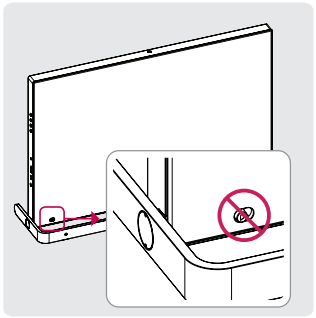
The angle of the screen can be adjusted forward or backward from -5° to 10° for a comfortable viewing experience.

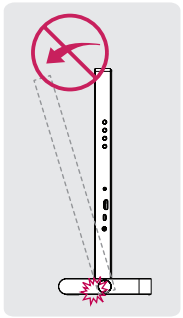
WARNING

- Be careful not to touch or press the screen area when adjusting the angle of the monitor.
- Do not use the button on the back of the product when adjusting the angle.
- Be careful not to use excessive force when adjusting the angle.





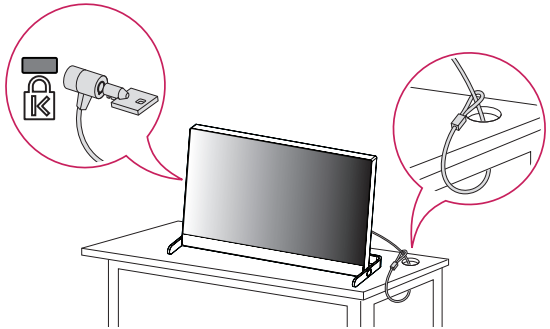




Using the Kensington Lock

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.

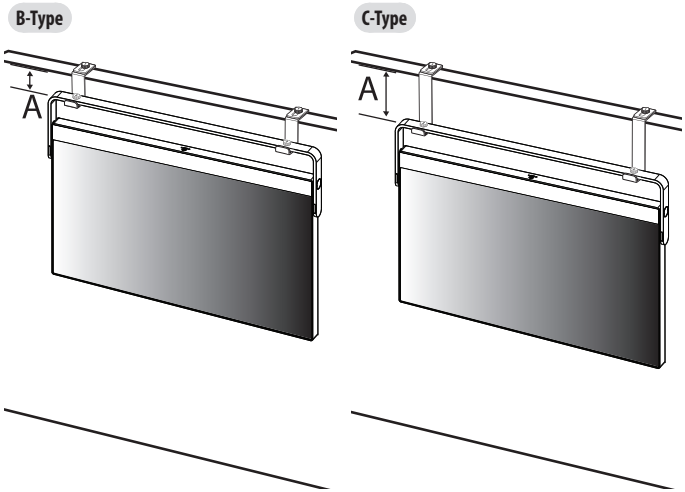


NOTE

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

Installing on the Wall

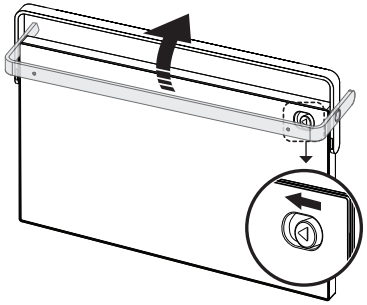
Secure at least a certain amount of vertical flat space in the partition to be installed.
In addition, ensure that it is strong and sturdy enough to hold and use the product.



Hanger Length (A)	B-Type	80 mm
	C-Type	200 mm

NOTE

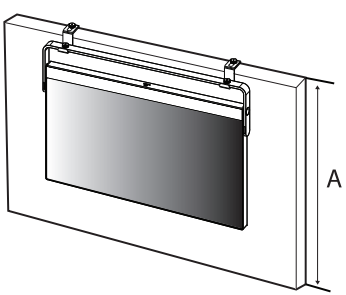
- The stand can be unfolded by pushing the button on the back of the product.

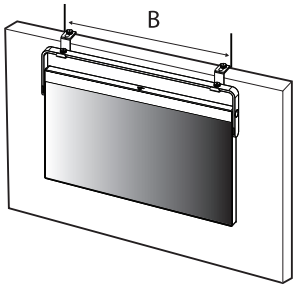


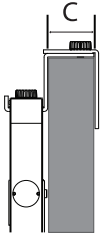
⚠ CAUTION

- The partition in which the product is installed must be sufficiently rigid. If it is made of fragile material such as glass, this may result in damage to the product.
- If the partition surface is uneven or tilted, the product may tilt.
- When the monitor is installed, the traces may remain on the partition.
- Do not hang heavy items such as bags or clothes on the monitor or cradle.
- If the partition cannot support the monitor sufficiently, be careful as the monitor may fall over.
- When standing the folded stand, be careful not to get your fingers caught between the monitor head and the stand.
- 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.

NOTE





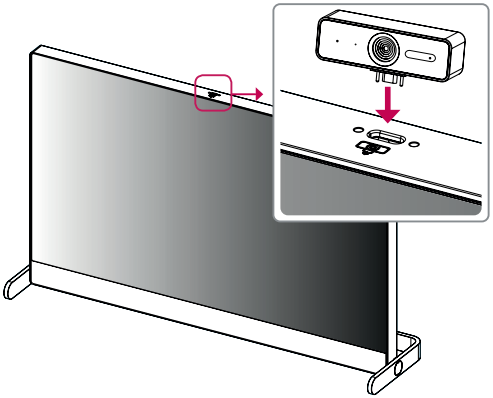


A	B-Type	≥ 550 mm
	C-Type	≥ 670 mm
B	530 mm	
C	30~70 mm	

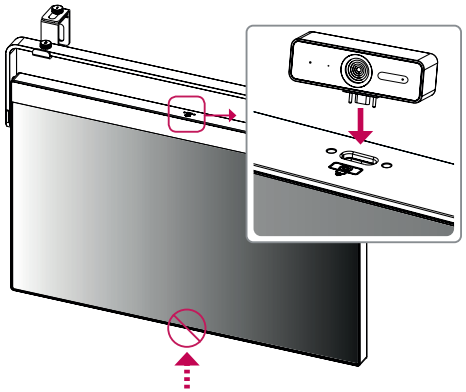
Webcam Installation

Insert the webcam according to the direction in which you wish the camera to shoot, and use it after connecting it to the monitor.

When Installing on a Table



When Installing on a Partition

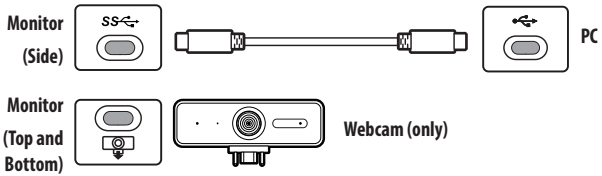


CAUTION

- Do not mount the webcam on the bottom of the monitor.

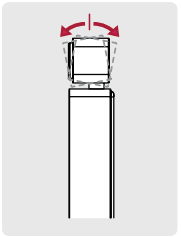
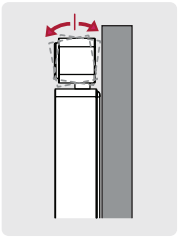
NOTE

- The USB-C port on the side of the monitor and the USB-C port on the PC must be connected with a USB-C cable in order for the webcam to function.
- The USB-C ports on the top and bottom of the monitor are exclusively for the webcam.



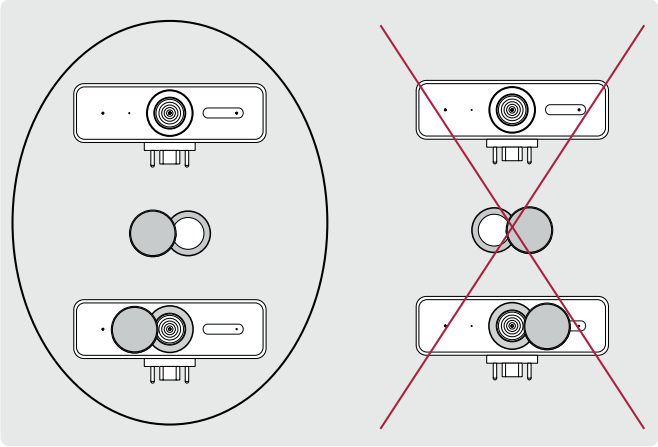
Adjusting the Angle

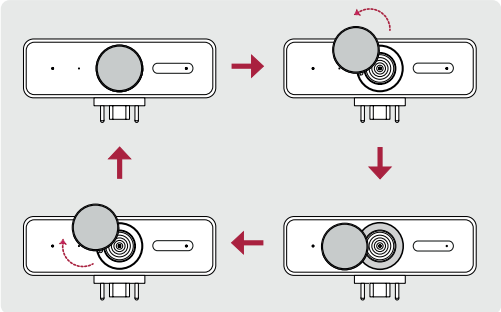
The angle of the webcam can be adjusted from -15° to 10° (or 15°) front and back for comfortable use.

When installing on a table: -15° ~ 15°	When installing on a partition: -15° ~ 10°
	

Using the Lens Cover

A lens cover can be attached to hide the lens when the webcam is not in use.
When attaching the lens cover, attach it so that the cover opens to the left.





USING THE MONITOR

- Illustrations in this manual may differ from the actual product.
- Press the ⊞ (Menu) button on the side of the monitor and select the corresponding input from the [Input] menu.

⚠ CAUTION

- If you use generic cables not certified by LG, the screen may not display or there may be image noises.
- 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

USB-C connection

Transmits digital video and audio signals from your PC to the monitor.

NOTE

- PD(Power Delivery) and DP Alternate Mode(DP over USB-C) are supported via USB-C Port.
- Features may not work properly depending on the connected device's specifications and the environment.
- USB-C port is not for the monitor power source but for a PC power source. Connect adapter to supply power to the monitor.
- It is recommended to turn off the device connected via HDMI when watching a video by connecting through USB-C.

Connecting AV Devices

HDMI Connection

HDMI transmits digital video and audio signals from your AV device 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

Connecting Peripherals

Headset Connection

Connect peripherals to the monitor via the headset port.

NOTE

- Peripheral devices are sold separately.
- Depending on the audio settings of the PC and external device, headset 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)

- The USB-C port on the side of the monitor and the USB-C port on the PC must be connected with a USB-C cable in order for the microphone to function.

USER SETTINGS

NOTE

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

Menu Settings

1 Press the ⊞ (Menu) button on the side of the monitor to enter.

2 Use the △ / ▽ buttons to set options.

3 If you wish to adjust the upper menu or other items, use the ⊞ (Menu) button or press the ◉/OK button to move.

[Quick Settings]

- [Brightness]: Adjusts the brightness of the screen.
- [Contrast]: Adjusts the contrast of the screen.
- [Volume]: Adjusts the volume level.
- [Color Temp]: Set your own colour temperature.
  - [Custom]: The user can customize the red, green and blue colour.
  - [Warm]: Sets the screen colour to a reddish tone.
  - [Medium]: Sets the screen colour to between a red and blue tone.
  - [Cool]: Sets the screen colour to a bluish tone.
  - [Manual]: The user can fine-tune the colour temperature.
- [Waves MaxxAudio®]
  - [On]: MaxxAudio® by waves, recipient of a Technical GRAMMY Award® is a suite of studio-quality sound tools for a superior listening experience.
  - [Off]: Disables the [Waves MaxxAudio®] feature.

[Input]

- [Input List]: Selects the input mode.
- [Aspect Ratio]: Adjusts the aspect ratio of the screen. The display may look the same for [Full Wide], [Original], and [Just Scan] options at the recommended resolution (2560 x 1440).
  - [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.
  - [Just Scan]: The aspect ratio is not adjusted from the original.

[Picture]

[Picture] > [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.
- [FPS]: This mode is optimized for FPS games.
- [RTS]: This mode is optimized for RTS Game.
- [Color Weakness]: This mode is for users who cannot distinguish between red and green. It enables users with colour weakness to easily distinguish between the two colours.

NOTE

- The [Picture Mode] that can be set depends on the Input signal.
- HDR content may not display correctly depending on OS settings, please check HDR On/Off settings in Windows or Mac OS.
- 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.

[Picture] > [Picture Adjust]

- [Brightness]: Adjusts the brightness of the screen.
- [Contrast]: Adjusts the contrast of the screen.
- [Sharpness]: Adjusts the sharpness of the screen.
- [SUPER RESOLUTION+]: 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.
  - [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.
  - [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+].
- [Black Level]: Sets the offset level (for HDMI only).
  - Offset: As a reference for a video signal, this is the darkest colour 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]
  - [On]: Adjusts the brightness automatically according to the screen.
  - [Off]: Disables the [DFC] feature.

[Picture] > [Game Adjust]

- [Response Time]: 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]. Once [Faster] mode is selected, Motion Blur may occur depending on the content.
  - [Faster]: Sets the response time to faster.
  - [Fast]: Sets the response time to fast.
  - [Normal]: Sets the response time to normal.
  - [Off]: Does not use the response time improvement feature.
- [Black Stabilizer]: You can control the black contrast to have better visibility in dark scenes. Increasing the [Black Stabilizer] value brightens the low grey level area on the screen. (You can easily distinguish objects on dark game screens.) Reducing the [Black Stabilizer] value darkens the low grey level area and increases the dynamic contrast on the screen.

[Picture] > [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 colour temperature.
  - [Custom]: The user can customize the red, green and blue colour.
  - [Warm]: Sets the screen colour to a reddish tone.
  - [Medium]: Sets the screen colour to between a red and blue tone.
  - [Cool]: Sets the screen colour to a bluish tone.
  - [Manual]: The user can fine-tune the colour temperature.
- [Red] / [Green] / [Blue]: You can customize the picture colour using [Red], [Green], and [Blue] colours.
- [Six Color]: Meets the user requirements for colours by adjusting the hue and saturation of the six colours (red, green, blue, cyan, magenta, and yellow) and then saving the settings.
  - Hue: Adjusts the tone of the screen colours.
  - Saturation: Adjusts the saturation of the screen colours. The lower the value, the less saturated and brighter the colours become. The higher the value, the more saturated and darker the colours become.

[Picture] > [Picture Reset]

- Returns picture and colour to the default settings.

[Sound]

- [Volume]: Adjusts the volume level.
- [Waves MaxxAudio®]
  - [On]: MaxxAudio® by waves, recipient of a Technical GRAMMY Award® is a suite of studio-quality sound tools for a superior listening experience.
  - [Off]: Disables the [Waves MaxxAudio®] function.

[General]

- [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.
- [Automatic Standby]: If there is no operation on the monitor for a certain period of time, the monitor will automatically switch to standby mode.
- [Auto Reverse]
  - [On]: Automatically rotates the screen 180 degrees by detecting when the monitor is upside down.
  - [Off]: Disables the [Auto Reverse] feature.
- [DisplayPort Version]: Set DisplayPort Version to the same version as the connected external device. ([1.4] and [1.2])

  To use the HDR function, set to [1.4].
- [Buzzer]: This feature lets you set the sound generated from Buzzer when your monitor powers on.
- [OSD Lock]: This feature disables the configuration and adjustment of menus.

  All features are disabled except [Brightness], [Contrast] and [Volume] on [Quick Settings], menus of on [Input], and [OSD Lock] and [Information] of [General].
- [Deep Sleep Mode]: When [Deep Sleep Mode] is [On], power consumption is minimized while the monitor is in standby mode.
  - [On]: Enables [Deep Sleep Mode].
  - [Off]: Disables [Deep Sleep Mode].
- [Information]: The following display information will be shown; [Total Power On Time], [Resolution].
- [Reset to Initial Settings]: Returns to the default settings.

NOTE

- [SMART ENERGY SAVING]
  - 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.
- [Auto Reverse]
  - When rotating 180 degrees, [Response Time] and DAS Mode do not work.

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 [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.

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.
- 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].
  - Check the PC settings and input signal. (HDR, No Signal)

Do you see an "Unrecognised monitor, Plug and Play (VESA DDC) monitor found" message?

- Have you installed the display driver?
  - Be sure to install the display driver from our web site: *https://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 △ / ▽ buttons.
  - 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.)

PRODUCT SPECIFICATION

Specifications are subject to change without notice.

The symbol ~ means alternating current, and the symbol ⎓ means direct current.

Colour Depth:

- 10-bit colour is supported.

Resolution

- Max Resolution: 2560 x 1440 @ 60 Hz
- Recommended Resolution: 2560 x 1440 @ 60 Hz

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 %

AC/DC Adapter

- Model: ADS-150KL-19N-3 190140E
  Manufacturer: Shenzhen Honor Electronic Co.,Ltd.
- Input: 100-240 V~ 50/60 Hz 2.0 A
- Output: 19 V ⎓ 7.37 A

Dimensions

- Monitor Size (Width x Depth x Height) (mm)
  - When installing on a table: 631.8 x 160.4 x 391.8
  - When installing on a partition: 631.8 x 32.1 x 454.2
- Weight (Without Packaging) (kg): 6.0

Power Sources

- Power Rating: 19 V ⎓ 7.0 A
- Power Consumption
  - Operating Mode: 38 W (Typical)*
  - Sleep Mode (Standby Mode): ≤ 0.5 W
  - Off Mode: ≤ 0.3 W

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

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

Support Mode

(Preset Mode, USB-C)

Resolution	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	+/-	
2560 x 1440	88.79	59.95	+/-	

(Preset Mode, HDMI)

Resolution	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	+/-	
2560 x 1440	88.79	59.95	+/-	

HDMI Timing (Video)

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480p	31.5	60
720p	45	60
1080p	67.5	60
2160p	67.5	30



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

Model

Serial No.