

OWNER'S MANUAL

MEDICAL MONITOR

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

32HQ713D

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Be sure to see the regulatory manual provided for more information about the proper use and safety of the equipment.

Please note that this information is for proper use and safety of the equipment. The following symbols may indicate a hazardous situation in which, if not heeded, may result in serious injury or even death to the user or others, or damage to the equipment.



Indicates warning and safety instructions. If not adhered to, it could result in death or serious injury to the
user or others.



 Indicates a hazardous situation which, if not heeded, may result in minor or moderate injury to the user or others, or damage to the equipment.

For users in the United States

• United State federal law restricts this equipment to be used by or on the order of a physician.

Indications for Use

 This Medical Monitor is indicated for use in displaying radiological images (including full-field digital mammography and digital breast tomosynthesis) for review, analysis, and diagnosis by trained medical practitioners.

Cybersecurity warnings and responsibilities

- Firmware update should be performed through LG Electronics or its distributor.
- If LG Electronics or its distributor instructs to update the firmware, update it immediately.

ON CLEANING

Recommended Cleaning Chemicals

- Isopropanol 70 %
- Ethanol 70 %
- 0.9 % NaCl solution
- Biospot 500 ppm

How to Use Cleaner

- · Prior to cleaning, turn off the monitor and remove the power cable.
- Soak a soft cloth in a recommended cleaner, then lightly rub the screen with no more than 1 N of force.
- The cleaner could cause serious damage if it leaks inside the monitor while cleaning.
- The display could be damaged, so only clean the parts of the monitor other than the screen's LCD panel.
- Do not use benzene, thinner, acids or alkaline cleaners or other such solvents.
- Cleaning guidelines for displays must only be carried out by medical professionals (Doctors or Nurses) and must not be handled by patients.

LICENSE

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



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

"DICOM® is the registered trademark of the National Electrical Manufacturers Association for its Standards publications relating to digital communications of medical information."

OPEN SOURCE SOFTWARE NOTICE INFORMATION

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms, copyright notices and other relevant documents, please visit https://opensource.lge.com.

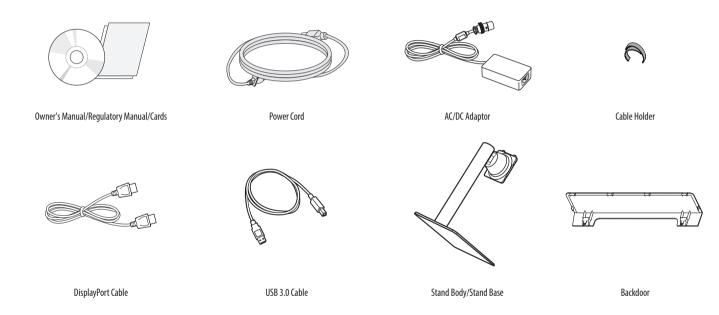
LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to <code>opensource@lqe.com</code>.

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

ASSEMBLY AND PREPARING

Product Composition

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



! 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 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.
- Only use components listed below that meet the listed standard. Unauthorized components may cause
 damage to and malfunction of the product.

Component	Standard
DisplayPort Cable	Support DisplayPort 1.2 Version, UL, Impedance 100 ohm
USB 3.0 Cable	Support USB 3.0, UL
Power Cord	US — Approved Medical grade regulation
	Others — Approved country safety regulation

• The AC/DC adaptors and etc. except the upper components need to be used only supplied by manufacturer.

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.

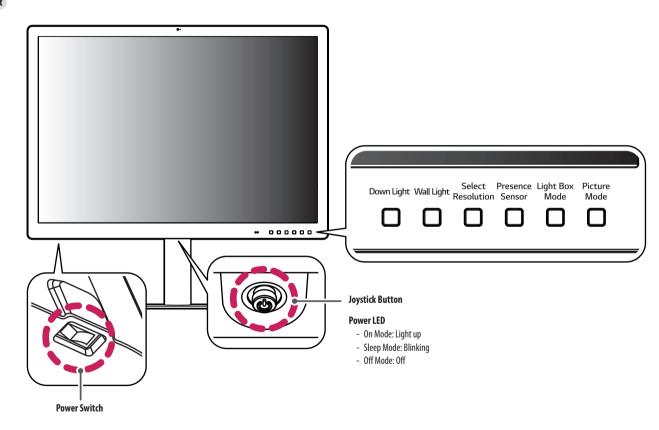
Supported Software

Drivers and Software	Installation Priority
PerfectLum	Recommended
On Screen Control	Optional
Dual Controller	Optional

- The [PerfectLum Serial Number] can be found in [General] > [Information].
- PerfectLum calibrates the color output of the monitor using Hardware Calibration. The program supports
 USB communication, so connect your PC and monitor using a USB cable and launch the PerfectLum
 program.
- Required and Recommended: You can download and install the latest version from the enclosed CD or from the LGE website (www.lq.com).
- Optional: You can download and install the latest version from the LGE website (www.lg.com).

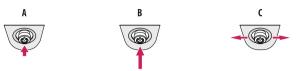
Product and Button Description

Front



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.



A (Power on): Press the joystick button once with your finger to turn on the monitor.

B (Power off): Press and hold the joystick button once more than 5 seconds with your finger to turn off the monitor.

C (Volume control): You can control the volume by moving the joystick button left/right.



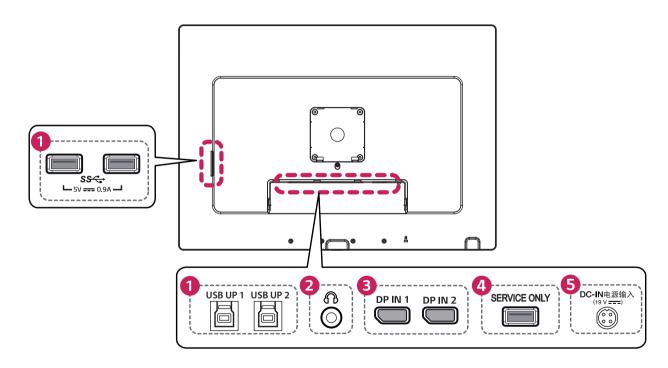
- The joystick button and power switch are located at the bottom of the monitor.
- Power switch: Turns the power on/off.

How to Use the Button

- **Down Light**: This allows you to have light on your desk in a dark environment.
- Wall Light: This allows you to have light on the wall at the back of your monitor in a dark environment.
- Select Resolution: The recommended resolution of the monitor can be changed to [8MP], [6MP], [4MP].
- Presence Sensor: If there is not anyone for 5 minutes in the front of the monitor, it make automatically screen off.
- **Light Box Mode**: This activates a rectangle screen on display with the max brightness to see a classic radiological film, and also you can select the size and duration of this rectangle.
- Picture Mode: Toggle the items to [Text], [Mono], [DICOM] and [Calibration 1] in circular.

Connectors





- 1 USB IN (SS←) 5 V = -- 0.9 A / USB UP (SS←)
 - Used for HW Calibrator (Optional Accessory) connection.
 - · Connect peripheral device to the USB input port.
 - A keyboard, mouse, or USB storage device can be connected.
 - To use USB 2.0, connect the A-B type USB 2.0/USB 3.0 cable to the PC.



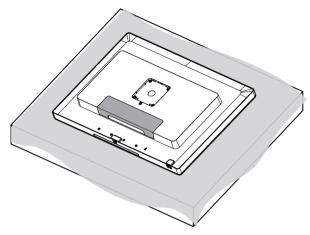
Cautions when using a USB storage device.

- A USB storage device which has a built-in automatic recognition program or uses its own driver might not be recognizable.
- Some USB storage 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 supplied
 is not enough, the USB device may not be detected properly.)
- 2 Headphone port

- DP IN 1/DP IN 2
 - · Input digital video signal.
 - There may be no video output depending on the DisplayPort version of your PC.
 - A cable with DisplayPort 1.2 specifications is recommended when using a Mini DisplayPort to DisplayPort cable.
- SERVICE ONLY
 - This USB port is used only for service.
- C DC-IN电源输入(19 V -)
 - Connect an AC/DC adapter.
 - The output of the enclosed adaptor is 19 V.
- NOTE
- This monitor supports the *Plug and Play feature.
- * Plug and Play: A feature that allows you to add a device to your computer without the need for physical device configuration or user intervention.

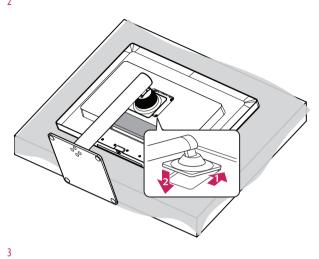
Assembling the Stand base

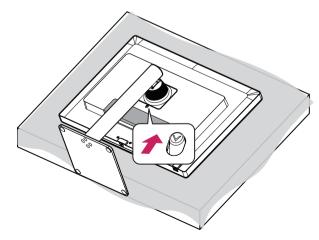
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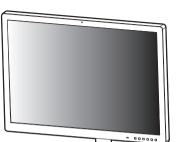


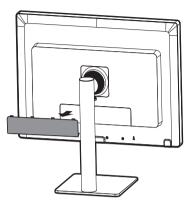
ACAUTION

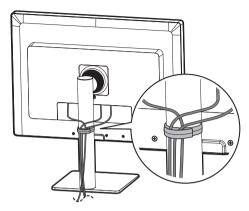
• To protect the screen from scratches, cover the surface with a soft cloth.



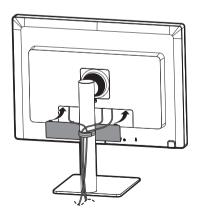








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! CAUTION

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



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

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.

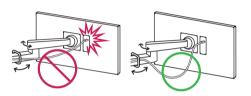
- Place the monitor in the original box or packing material before attempting to move it.
- Before moving or lifting the monitor, disconnect the power cord and all other cables.
- Hold the bottom and side of the monitor frame firmly. Do not hold the panel itself.
- When holding the monitor, the screen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





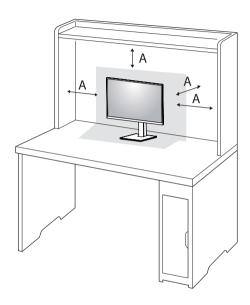
A CAUTION

- 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.
- Make sure there is enough slack in the cable when wire dressing the cable to the monitor. If the connected
 cable is too tight, the cable may be disconnected or deformed, which can cause malfunction. Please be
 careful.



Installing on a Table

• Lift the monitor and place it on the table in an upright position. Place the monitor at least 100 mm (3.9 inches) away from the wall to ensure sufficient ventilation.

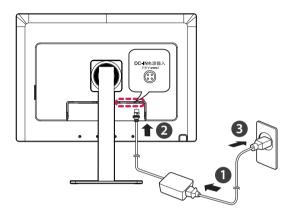


A: 100 mm (3.9 inches)

! 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.

Precautions for Connecting the Power Cord

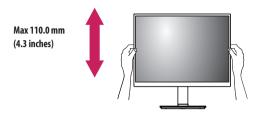


(CAUTION

- Make sure to use the power cord that is provided in the product package. Connect the cord 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.





• 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.
- Adjust the angle of the screen.

The angle of the screen can be adjusted forward or backward from -5 $^{\circ}$ to 15 $^{\circ}$ for a comfortable viewing experience.

WARNING

- To avoid injury to the fingers when adjusting the screen, do not hold the lower part of the monitor's frame as illustrated below.
- Be careful not to touch or press the screen area when adjusting the angle of the monitor.

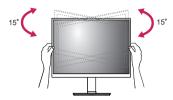






NOTE

• Swivel 15 degrees to the left or right and adjust the angle of the monitor to suit your view.

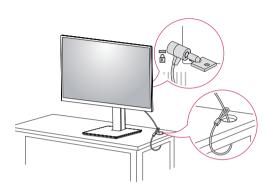


• The left or right side of the monitor head can be slightly rotated up or down (up to 3°). Adjust the horizontal level of the monitor head.



Using the Kensington Lock

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

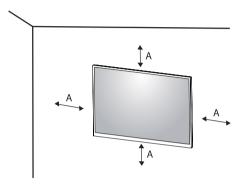


NOTE

• The Kensington Lock is optional. You can obtain optional accessories from most electronics stores.

Installing on the Wall

Install the monitor at least 100 mm (3.9 inches) away from the wall on each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local dealer. Please refer to the manual to install and set up a tilting wall mounting bracket.



A: 100 mm (3.9 inches)

Installing the Wall Mount Plate

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

To install the monitor to a wall, attach a wall mount plate (optional) to the back of the monitor.

Make sure that the wall mount plate (optional) is securely fixed to the monitor and to the wall.

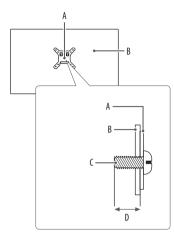
Wall Mount	100 mm x 100 mm
	(3.9 inches x 3.9 inches)
Standard screw	M4 x L10
Required screws	4
Wall Mount Plate (Optional)	LSW149

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.
- 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.

! CAUTION

- Disconnect the power cord first. Then move or install the monitor. There is risk of 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 damage the monitor. Such damage is not covered by the product warranty.
- Use the wall mounting bracket and screws that confirm to VESA standards. Damage caused by the use or misuse of inappropriate components is not covered by the product warranty.
- When measured from the back of the monitor, the length of each installed screw must be 8 mm (0.3 inches)
 or less.



A: Wall Mount Plate

B: Back of the Monitor

C: Standard screw

D: Max. 8 mm (0.3 inches)

USING THE MONITOR

Illustrations in this manual may differ from the actual product.
 Press the joystick button, qo 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.



• DisplayPort to HDMI cable may cause compatibility issues.

DisplayPort Connection

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





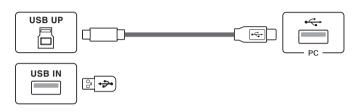
- There may be no video or audio output depending on the DisplayPort version of the PC.
- Make sure to use the supplied DisplayPort cable of the product. Otherwise, this may cause the device to malfunction.
- If you are using a Mini DisplayPort output graphics card, use a Mini DisplayPort to DisplayPort cable or gender that supports DisplayPort1.2. (Sold separately)

Connecting Peripherals

USB Device connection

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

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





- 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.

Connecting Headphones

Connect peripherals to the monitor via the headphones port.



- 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.







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



- 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.



Δ

- 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.)

R

- Main menu disabled: You can control the volume. (◀, ▶)
- Main menu enabled: Enters the [Input] features. (◄) / Enters the [Settings] feature. (►)

•

- Main menu disabled: Displays the information on the current input. (▲, ▼)
- Main menu enabled: Turns off the monitor. (lacktriangle) / Enters the [Picture Mode] feature. (lacktriangle)

Main Menu Features



Main Menu	Description		
A: [Power Off]	Turns off the monitor.		
B: [Input]	Sets input mode.		
C: [Settings]	Configures the screen settings.		
D: [Picture Mode]	Sets the Picture mode.		
E: [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.
 - To return to the upper menu or set other menu items, move the joystick to ◀or pressing (倘) it.
- If you want to exit the OSD menu, move the joystick to ◀until you exit.









[Quick Settings]

[Input]

[Picture]

[General]

·] [6



- 👛: 0n
- 🗀: Off

[Quick Settings]

[Settings] > [Quick Settings]	Description		
[Brightness]	Adjustable control and brighteen efalls are a		
[Contrast]	Adjusts the contrast and brightness of the screen.		
[Volume]	djusts the volume level. You can adjust [Mute]/[Unmute] by moving the joystick button to ▼ in the [Volume] menu.		
[Color Temp]	Set color temperature. ([Custom], [6500K], [7500K], [9300K], [Manual])		
[User Preset]	User Preset allows the user to save or load up to 10 picture quality settings for multiple connected devices in each preset.		
	● NOTE		
	You can use User Preset to import or save items in [Picture Adjust] and [Color Adjust] of the [Picture] menu.		

[Input]

[Settings] > [Input]	Description			
[Input List]	Selects the input	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.		
	[Just Scan] The aspect ratio is not adjusted from the original.			
	① NOTE			
	• The display may look the same for [Full Wide], [Original] and [Just Scan] options at the recommended resolution.			
[Select Resolution]	The recommended resolution of the monitor can be changed to [8MP], [6MP], [4MP].			
[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. • When the [PBP] mode is activated, the menu is activated.			

[Settings] > [Input]	Description				
[Input List]	Displays the screens of two input modes on one monitor.				
	[Main Input List]				
	[Sub Input List]	Please refer to the table below for possible PBP combinations.			
		PBP Connection	Sub Screen (Right)	
		rbr connection	DisplayPort 1	DisplayPort 2	
	Main Screen (Left)	DisplayPort 1	-	0	
	Main Screen (Leit)	DisplayPort 2	0	-	
[Aspect Ratio]	Adjusts the aspect ratio of the screen.				
	[Main Aspect Ratio]	[Full Wide]	Displays the video to fit the PBP screen, regardless of the video signal input.		
		[Original]	Displays the video in the aspect ratio of the video signal input on the PBP screen.		
	[Cub Assest Datis]	[Full Wide]	Displays the video to fit the PBP screen, regardless of the video signal input.		
	[Sub Aspect Ratio]	[Original]	Displays the video in the aspect ratio of the video signal input on the PBP screen.		
[Select Resolution]	The recommended resolution of the monitor can be changed to [8MP], [6MP], [4MP].				
[PBP]	You can disable the feature that displays images from two input modes simultaneously 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.				

[Picture]



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

[Settings] > [Picture]	Description		
	[Custom]	Allows the user to adjust each element.	
	[Text]	Optimizes the screen for text documents. You can brighten the screen in the OSD menu.	
	[Mono]	Mono (black and white) color mode.	
	[Pathology]	Turn on pathology mode. Image clarity and accuracy as if you were looking at a microscope.	
	[DICOM]	A mode that optimizes the screen settings so you can view images for medical use.	
	[DICOM(Custom)]	● NOTE	
[Picture Mode]		Adjusts the brightness of screen in [DICOM(Custom)] mode.	
	[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 PerfectLum will enable this menu.		

[Settings] > [Picture]	Description				
[Picture Adjust]	[Brightness]	Adjusts the brightness of the screen.			
		• NOTE			
		 Press the ▼ button to toggle between [Turn on 'Brightness Stabilization']/[Turn off 'Brightness Stabilization']. When [Brightness Stabilization] is On, the [Brightness] adjustment function is deactivated. When [Brightness Stabilization] is On, [SMART ENERGY SAVING] and [DFC] functions are deactivated. When [Picture Mode] is set as [DICOM], or [Gamma] is set as [DICOM Gamma Curve] Setting, the [Brightness] adjustment function is deactivated. When [Picture Mode] is set as [DICOM(Custom)], the [Brightness] adjustment function is activated. 			
	[Auto Brightness]	Optimizes the brightn	ess automatically for surrounding illuminance.		
	[Contrast]	Adjusts the color cont	Adjusts the color contrast of the screen.		
	[Sharpness]	Adjusts the sharpness of the screen.			
	[Brightness Stabilization]	Maintains the brightness configured of the screen.			
		On Automatically adjusts brightness.			
		Off Deactivates the applicable function and the user can adjust the brightness.			
	[SUPER RESOLUTION+]	[High] Optimizes the screen for crystal clear images.			
		[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.			
		[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 deskt icons. Doing so may result in unnecessarily high sharpness.			

[Settings] > [Picture]		Description		
[Picture Adjust]	[DFC]	On	Automatically adjusts brightness depending on the screen.	
		Off	Deactivates the [DFC] function.	
	[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]. Setting to [Faster] may cause image sticking.		
		[Faster]	Sets the response time to [Faster].	
		[Fast]	Sets the response time to [Fast].	
		[Normal]	Sets the response time to [Normal].	
		[0ff]	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 gray level area on the screen. (You can easily distinguish object Reducing the [Black Stabilizer] value darkens the low gray level area and increases the dynamic contrast on the screen.		
	[Uniformity]	Automatically adjusts t	he brightness uniformity of the screen.	
		NOTEIf [Uniformity] is activated, the screen may become darker.		
		On	Activates the [Uniformity] function.	
	Off Deactivates the [Uniformity] function.		Deactivates the [Uniformity] function.	

[Settings] > [Picture]			Description	
[Color Adjust]	[Gamma]	Set gamma value. ([Gamma 1.8], [Gamma 2.0], [Gamma 2.2], [Gamma 2.4], [Gamma 2.6], [DICOM Gamma Curve]) Higher gamma settings mean a darker image is displayed or vice versa.		
	[Color Temp]	Set 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.	
			Sets the picture color to the color temperature of a bluish 9300K.	
		[Manual]	Adjusts the color temperature in 500K increments. (Note that 9300K is supported rather than 9500K.)	
[Red], [Green], [Blue]		You can customize the	picture color using [Red], [Green], and [Blue] colors.	
	[Six Color]	Meets the user requirer the settings.	ments for colors by adjusting the hue and saturation of the six colors (red, green, blue, cyan, magenta, and yellow) and then saving	
		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	[No]	Cancel the select.	
	settings?]	[Yes]	Returns color to the default settings.	

[General]

[Settings] > [General]	Description			
[Language]	Sets the menu screen to the desired language.			
[FOCUS VIEW]	Installation of On Screen Control and proce	Installation of On Screen Control and proceeding (FOCUS VIEW) will set max brightness of screen.		
[Down Light]	This allows you to have light on your desk in a dark environment. You can control the brightness as [Light Preset] when it menu abled.			
[Wall Light]	This allows you to have light on the wall at the back of your display in a dark environment. You can control the brightness as [Light Preset] when it menu abled.			
[Presence Sensor]	If there is not anyone for 5 minutes in the front of the monitor, it make automatically screen off.			
[Light Box Mode]	This activates a rectangle screen on display with the max brightness to see a classic radiological film.			
	[Size]	You can select the size of this rectangle.		
		[Full Screen]	You can see full screen with the max brightness to see it.	
		[Medium]	You can see half screen with the max brightness to see it.	
		[Small]	You can see quarter screen with the max brightness to see it.	
	[Duration]	You can select the duration of this rectangle. ([3 min], [5 min], [10 min])		
[USB Upstream]	[DisplayPort 1]	Select the USB Upstream cable connection port to use the USB Hub of the monitor. ([USB Upstream 1], [USB Upstream 2])		
	[DisplayPort 2]			

[Settings] > [General]	Description		
[SMART ENERGY SAVING]	Conserve energy by using luminance comp	pensation 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]	When the Power LED function is turned on, it operates as follows: - On Mode: Light up - Sleep Mode: Blinking - Off Mode: Off		

[Settings] > [General]	Description		
[User Preset]	User Preset allows the user to save or load up to 10 picture quality settings for multiple connected devices in each preset.		
	● NOTE		
	You can use User Preset to import or save items in [Picture Adjust] and [Color Adjust] of the [Picture] menu.		
[Screen Off]	You can select system behavior in standby mode to only turn off screen.		
	On	Sets only turn off screer	n in sleep mode.
	Off	Sets system sleep and t	urn off screen in sleep mode.
[OSD Lock]	This feature disables the configuration and adjustment of menus.		
	● NOTE		
	Deactivates all functions except the [Quick Settings] menu and [Input] menu's [Input List], [Aspect Ratio], [Select Resolution] functions and the [General] menu's [OSD Lock] and [Information] functions.		
[Information]	The following display information will be shown; [Total Power On Time], [Resolution], [PerfectLum Serial Number].		
[Reset to Initial Settings]	[Do you want to reset your settings?]	[No]	Cancel the reset.
		[Yes]	Returns to the default settings.

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?
 - 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 SPECIFICATIONS> 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?
- 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].

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.)

PRODUCT SPECIFICATIONS

In order to improve the product, specifications may change without notice.

The symbol \sim means alternating current, and the symbol = means direct current.

LCD Screen	Туре	TFT (Thin Film Transistor)			
200 Section	1,762	LCD (Liquid Crystal Display) Screen			
	Pixel Pitch	0.18159 mm x 0.18159 mm			
Resolution	Max Resolution	3840 x 2160 @ 60 Hz			
	Recommended Resolution	3840 x 2160 @ 60 Hz	-		
Video Signal	Horizontal Frequency	30 kHz to 135 kHz			
,	Vertical Frequency	56 Hz to 61 Hz			
Input Connector	H/P, USB IN (SS←), USB UP (SS←), DP IN 1/2				
Power Sources	Power Rating	19 V 6.32 A			
	Power Consumption	MAX. 120 W*	MAX. 120 W*		
		Sleep Mode: ≤ 1 W			
		Off Mode: ≤ 0.3 W (Power Switch: Off)			
AC-DC Adaptor	Manufacturer: Asian Power Devices Inc. (AF	PD)			
	Model: DA-120D19				
	Input: 100-240 V~ 50-60 Hz, 1.8 - 0.7 A				
	Output: 19 V = 6.32 A				
	Classification by protection type against Electric Shock: Class I equipment				
Environmental Conditions	Operating Conditions	Temperature	0 °C to 40 °C (32 °F to 104 °F)		
		Humidity	0 % to 80 %		
		Pressure	700 hPa to 1060 hPa		
	Storage / Transport Conditions	Temperature	-20 °C to 60 °C (-4 °F to 140 °F)		
		Humidity	0 % to 85 %		
		Pressure	500 hPa to 1060 hPa		

Monitor Size			
Dimensions (Width x Height x Depth)	With Stand	758.5 x 646.2 x 280 (mm)	
		29.8 x 25.4 x 11.0 (inches)	
	Without Stand	758.5 x 465.3 x 79.1 (mm)	
		29.8 x 18.3 x 3.1 (inches)	
Weight	With Stand	13.0 (kg)	
		28.6 (lbs)	
	Without Stand	9.7 (kg)	
		21.3 (lbs)	

	Classification by protection type against Electric Shock	Class equipment	
Medical Specifications	Mode of operation	Continuous Operation	
	Environment of Use	This equipment is not suitable for use in the presence of flammable anesthetic or oxygen.	

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

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

Support Mode (Preset Mode - PC)

DisplayPort

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	-/-	
1280 x 1024	63.981	60.02	-/-	
1200 x 1600	99.48	60	-/+	When [PBP] mode is activated
1920 x 1080	67.5	60	+/+	
3200 x 1800	111.09	59.98	-/+	[Select Resolution]: [6MP]
1600 x 1800	111.08	59.98	+/-	[PBP] mode is activated, [Select Resolution] is [6MP].
2560 x 1440	188.79	59.95	+/-	[Select Resolution]: [4MP]
1280 x 1440	88.72	59.90	+/-	[PBP] mode is activated, [Select Resolution] is [4MP].
3840 x 2160	133.31	60	+/-	Recommended (DisplayPort) [Select Resolution]: [8MP]
1920 x 2160	133.29	59.99	+/-	[PBP] mode is activated, [Select Resolution] is [8MP].

Supported Graphic Card List

Vendor	Graphic Card
MMDIA	Quadro P/T Series
NVIDIA	Quadro RTX/RTX-A Series
AMD	Radeon Pro WX x100 Series



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.

Supplier's Declaration of Conformity

Trade Name LG

Responsible Party LG Electronics USA, Inc.

Address 111 Sylvan Avenue, North Building,

Englewood Cliffs, NJ 07632

E-mail lg.environmental@lge.com

WARNING: This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.