



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

27HJ713C

TABLE OF CONTENTS

LICENSE 3
OPEN SOURCE SOFTWARE NOTICE INFORMATION 3
ASSEMBLY AND PREPARING 4
USING THE MONITOR19
USER SETTINGS23
TROUBLESHOOTING 38
PRODUCT SPECIFICATIONS 40
LIMITED WARRANTY (USA)43
LIMITED WARRANTY (CANADA) 45

LICENSE

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



The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade Dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator. Inc.



VESA, VESA logo, DisplayPort compliance logo and DisplayPort compliance logo for dual-mode source devices are all registered trademarks of the Video Electronics Standards Association.



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 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.

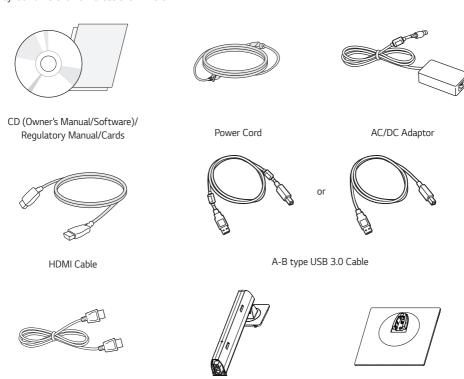
LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to *opensource@lge.com*.

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

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.



Stand Body

Stand Base



DisplayPort Cable

Cable Holder



- · 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.
- Need to use the authorized components about the below accessories. Unauthorized components may be cause of the damage and malfunction of the product.

Component	Standard		
HDMI Cable	Support HDMI 2.0 version, UL, Impedance 100ohm		
DisplayPort Cable	Support DISPLAYPORT 1.2a version, UL, Impedance 100ohm		
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.



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

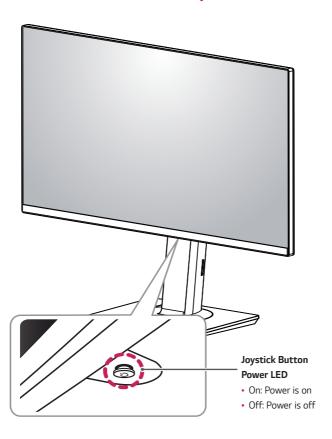
Supported Drivers and Software

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

Drivers and Software	Installation Priority	27HJ713C
Monitor Driver	Recommended	0
OnScreen Control	Optional	0
Dual Controller	Optional	0
True Color Pro	Optional	0

- 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).

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.

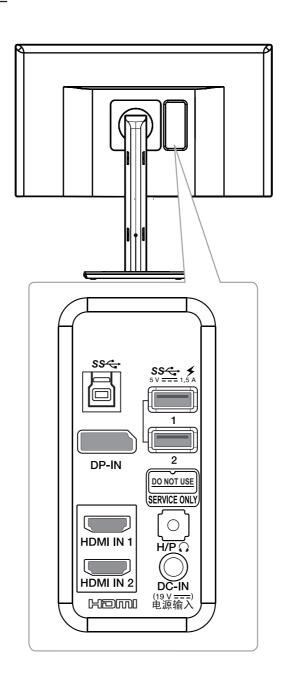
Basic Functions

		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.



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

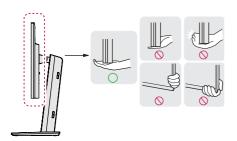
Input Connector



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 bottom and side of the monitor frame firmly.
 Do not hold the panel itself.





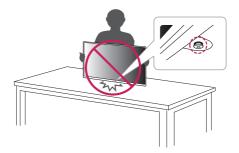
- When holding the monitor, the screen should face away from you to prevent it being scratched.
- When moving the monitor, avoid any strong shock or vibrations to the product.
- When moving the monitor, keep it upright, never turn the monitor on its side or tilt it sideways.



- · 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.



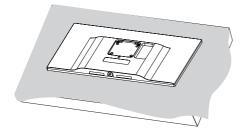
 If you use the monitor panel without the stand base, its joystick button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the joystick button to malfunction.



Installing the Monitor

Assembling the Stand base

• Illustrations in this document represent typical procedures, so they may look different from the actual product.

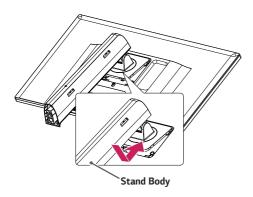




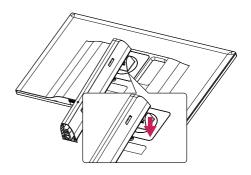
CAUTION

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

2



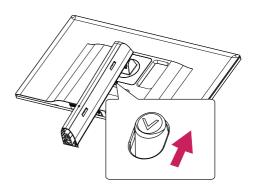
3



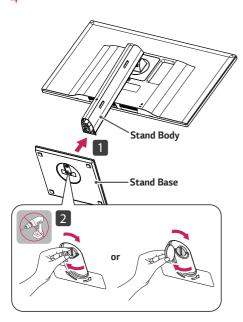


NOTE

• Press the stand until the button reaches the top.

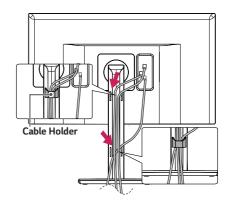


4



Arranging Cables

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





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.

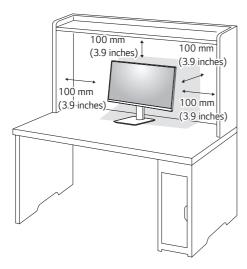


NOTE

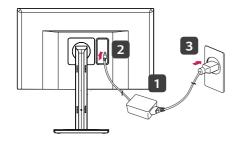
 You can disassemble the stand in the reverse order of the assembly.

Installing on a Table

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



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

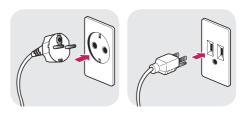


3 Press the joystick button on the bottom of the monitor to turn on the monitor.



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

Cautions When Connecting Power Cord

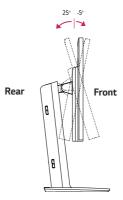


100-240 V ~

- 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.

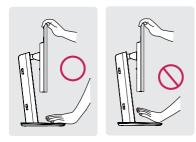
Adjusting the Angle

- 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.



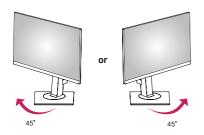


 To avoid injury to the fingers when adjusting the screen, do not hold the lower part of the monitor's frame as illustrated below.



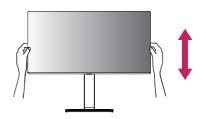


• Swivel 45 degrees to the left or right and adjust the angle of the monitor to suit your view.

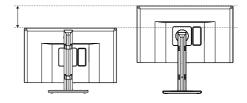


Adjusting the Stand Height

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



3 The height can be adjusted up to 150.0 mm (5.9 inches).



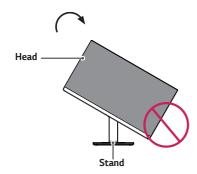




 Do not put your fingers or hand between the screen and the base (chassis) when adjusting the screen's height.

Pivot Feature

The pivot feature allows the monitor to rotate 90 degrees clockwise or counter-clockwise.





WARNING

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



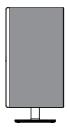
2 Adjust the angle of the monitor in the direction of the arrow as shown in the figure.



3 Rotate the monitor clockwise or counter-clockwise as shown in the figure.



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



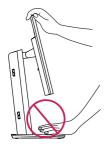


- · Auto Pivot feature of the display is not supported.
- The screen can be rotated easily using the screen pivot shortcut key provided with your Windows operating system. Note that some Windows versions and some graphics card drivers may use different settings for the screen pivot key or may not support the pivot key at all.
- · Windows screen pivot shortcut keys
 - 0°: Ctrl + Alt + Up arrow key (个)
 - 90°: Ctrl + Alt + Left arrow key (←)
 - 180°: Ctrl + Alt + Down arrow key (↓)
 - 270°: Ctrl + Alt + Right arrow key (→)



WARNING

- Take care when rotating the monitor if the cable is connected.
- To avoid injury when rotating the display, do not place your fingers between the display and the stand base.

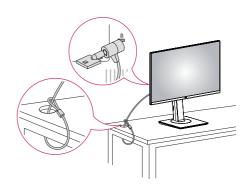


Using the Kensington lock

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 owner's manual or visit the website at http://www.kensington.com.

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



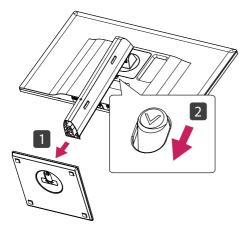


NOTE

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

Detaching the Stand Body

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



Installing the wall mount plate

This monitor 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 Using a screwdriver, remove the four screws at the back of the monitor.
- 3 Place the wall mount plate onto the monitor and align it with the screw holes.
- 4 Tighten the four screws to fix the plate to the monitor using a screwdriver.

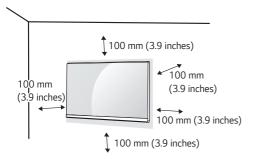


NOTE

- · The wall mount plate is sold separately.
- For more information on installation, refer to the wall mount plate's installation quide.
- Be careful not to use excessive force when mounting the wall mount plate, as this can damage the monitor's screen.

Installing on the Wall

Install the monitor at least 100 mm (3.9 inches) away from the wall and leave about 100 mm (3.9 inches) of space at each side of the monitor to ensure sufficient ventilation. Detailed installation instructions can be obtained from your local retail store. Alternatively, please refer to the manual for how to install and set up a tilting wall mounting bracket.



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

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

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

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

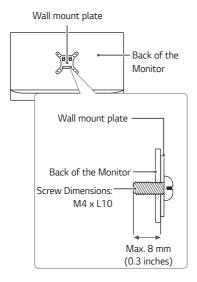


NOTE

- · 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.



- 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 confirm 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 8 mm (0.3 inches).



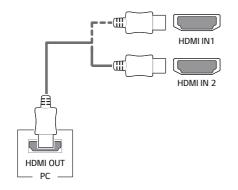
USING THE MONITOR

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

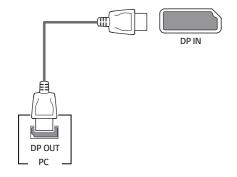


! CAUTION

- Make sure to use the supplied HDMI cable of the product. Otherwise, this may cause the device to malfunction.
- Connecting your PC to the monitor using the HDMI cable may cause device compatibility issues.
- 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®/TM Cable with Ethernet

DisplayPort Connection

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



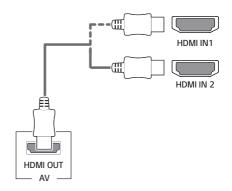


- There may be no video or audio output depending on the DP (DisplayPort) version of the PC.
- Make sure to use the supplied DisplayPort cable of the product. Otherwise, this may cause the device to malfunction.
- If you use generic cables not certified by LG, the screen may not display or there may be image noises.

Connecting AV Devices

HDMI Connection

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





NOTE

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

Connecting Peripherals

USB Cable connection - PC

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



NOTE

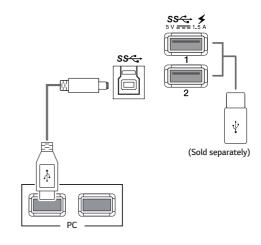
- Make sure to install the most recent Windows OS service pack before using the product.
- · Peripheral devices are sold separately.
- A keyboard, mouse, or USB device can be connected to the USB port.
- Go to [General] > [Quick Charge] to set [Quick Charge] to [On] or [Off].
- · The charging speed may vary depending on the device.



HDMI/DP (DisplayPort) connection

To use USB 3.0, connect the A-B type USB 3.0 cable of the product to the PC. $\,$

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



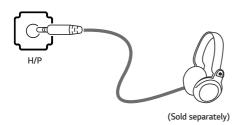
! CAUTION

Cautions When Using a USB Device

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

Connecting Headphones

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



Service only port

The port is used only for "Service".





- · 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.







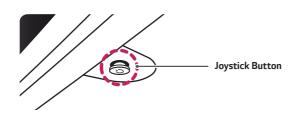
(Recommended)

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

USER SETTINGS

Activating the Main Menu

- 1 Press the joystick button on the bottom of the monitor.
- 2 Move the joystick up/down (\blacktriangle/\P), and left/right ($\blacktriangleleft/\blacktriangleright$) 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 m		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.)
	M		Adjusts the monitor volume level.
		Main menu enabled	Enters the [Menu] features.
	•	Main menu disabled	Adjusts the monitor volume level.
		Main menu enabled	Enters the [Input] feature.
		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



Main Menu	Description		
[Menu]	Configures the screen settings.		
[Picture Mode]	Optimizes the screen for picture mode.		
[Input]	Sets input mode.		
[Monitor off]	Turns off the monitor.		
[Exit]	Exits the main menu.		

User Settings

Menu Settings

- 1 To view the OSD menu, press the joystick button at the bottom of the monitor and then enter the [Menu].
- 2 Configure the options by moving the joystick up/down/left/right.
- 3 To return to the upper menu or set other menu items, move the joystick to ◀ or pressing (⑨/Ok) it.
- 4 If you want to exit the OSD menu, move the joystick to **◄** until you exit.
- When you enter the menu, instructions on how to use the button will appear in the bottom right corner of the screen.







[PBP]



[Picture]



[General]



[Reset]

Each option is described below.

Me	nu	Description	
[Quick Settings]	[Brightness]	Adicate the contrast and brightness of the contrast	
	[Contrast]	Adjusts the contrast and brightness of the screen.	
	[Volume]	Adjusts the volume level.	
		NOTE • You can adjust [Mute] / [Unmute] by moving the joystick button to ▼ in the [Volume] menu.	
	[Input]	Selects the input mode.	
	[Ratio]	Adjusts the aspect ratio of the screen.	
[PBP]	[PBP]	Displays the screens of two input modes on one monitor.	
[Picture]	[Picture Mode]	Changes the picture mode to the one optimized for a given feature.	
	[Picture Adjust]	Adjusts the [Brightness Stabilization], [SUPER RESOLUTION+], [Sharpness], [Black Level], [HDMI ULTRA HD Deep Color], [DFC], [Response Time], [Black Stabilizer], and [Uniformity].	
	[Color Adjust]	Adjusts the [Gamma], [Color Temp], and [Six Color].	
[General]		Sets [Language], [SMART ENERGY SAVING], [Power LED], [Automatic Standby], [DisplayPort 1.2], [Quick Charge], [Buzzer], and [OSD Lock].	
[Reset]		Restores the default settings.	
◀	[Exit]	Exits the OSD menu.	



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

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] 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.

[Menu] > [Quick Settings]	Description
[Brightness]	Adjusts the brightness of the screen.
	NOTE
	• You can adjust the [Brightness Stabilization] to [On] / [Off] by pressing the ▼ button in the [Brightness] menu.
	When the [Brightness Stabilization] is [On], [Brightness] menus becomes disabled.
	When the [Brightness Stabilization] is [On], [SMART ENERGY SAVING] and [DFC] menus become disabled.
	When [Picture Mode] is set as [DICOM], or [Gamma] is set as [DICOM Gamma Curve], the [Brightness] adjustment function is deactivated.
[Contrast]	Adjusts the contrast of the screen.

[Menu] > [Quick Settings]	Description		
[Volume]	Adjusts the volume	level.	
	NOTE • You can adjust [Mute] / [Unmute] by moving the joystick button to ▼ in the [Volume] menu.		
[Input]	Selects the input mode.		
[Ratio]	Adjusts the aspect ratio of the screen.		
	[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.		
	[1:1]	The aspect ratio is not adjusted from the original.	



- The display may look the same for [Wide], [Original], and [1:1] options at the recommended resolution (3840 \times 2160).
- The ratio is disabled in the interlaced signal.

PBP

- 1 To view the OSD menu, press the joystick button at the bottom of the monitor and then enter the [Menu].
- 2 Go to [PBP] 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.

[Menu] > [PBP]	Description				
[Sub]	Displays the screens of two input modes on one monitor.				
				Sub Screen (Right))
	PBP	PBP Connection		HDMI 2	DisplayPort
		HDMI 1	Х	Х	0
	Main Screen (Left)	HDMI 2	Х	Х	0
(Lei	(Lert)	DisplayPort	0	0	Х
[Sound Out]	Changes the audio output in [PBP] mode.				
	[Main]	[Main] Selects the input for [Main].			
	[Sub]	Selects the input for [Sub].			
[Swap]	Toggles between the main screen and sub screen in [PBP] mode.				
[Sub Full]	Converts the sub screen in [PBP] mode to wide screen.				

[Menu] > [PBP]	Description		
[Ratio]	Adjusts the asp	ect ratio of the main sc	reen or sub screen.
	[Main]	[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.
	[Sub]	[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.



- When the [Sub] mode is [Off], [Sound Out], [Swap], [Sub Full], and [Ratio] menus become disabled. The [Main] / [Sub] options for [Ratio] become disabled if there is no signal.
- The optimal resolution for [PBP] mode is set automatically when [PBP] mode is set.

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.

[Menu] > [Picture]	Description		
[Picture Mode]	[Custom]	Allows the user to adjust each element. The color mode of the main menu can be adjusted.	
	[Mono]	Mono (black and white) color mode.	
	[Reader]	Optimizes the screen for viewing documents. You can brighten the screen in the OSD menu.	
	[sRGB]	A standard RGB color space for the monitor and printer.	
	[Color Weakness]	This mode is for users who cannot distinguish between red and green. It enables users with color weakness to easily distinguish between the two colors.	

[Menu] > [Picture]	Description			
[Picture Mode]	[EBU] A standard TV		PAL color space for broadcasting.	
	[REC709]	A standard HDTV color space for broadcasting.		
	[SMPTE-C]	A standard TV NTSC color space for broadcasting.		
	[DICOM]	A mode optimized for viewing medical images.		
	[Calibration 1]	Adjusts to the last calibrated screen.		
	[Calibration 2]	Adjusts to the previously calibrated screen.		
	NOTE			
	If the [Picture Mode] is changed in the DP (DisplayPort) input, the screen may flicker or the resolution of your PC screen may be affected.			
	• [Calibration 2]: Installation of TRUE COLOR PRO and proceeding Calibration v menu.			
[Picture Adjust]	[Brightness Stabilization]	Maintains the brightness configured for medical environments.		
		[On]	Adjusts the brightness automatically.	
		[Off]	Deactivates the function, and allows the user to configure the brightness.	
	[SUPER RESOLUTION+]	[High]	Optimized picture quality is displayed when a user wants crystal clear images. It is effective for high quality video or game.	
		[Middle]	The optimized picture quality is displayed when a user wants images between low and high modes for comfortable viewing. It is effective for UCC or SD video.	
		[Low]	The optimized picture quality is displayed when a user wants smooth and natural images. It is effective for slow-moving pictures or still images.	
		[Off]	Select this option for everyday viewing. [SUPER RESOLUTION+] is turned off in this mode.	

[Menu] > [Picture]	Description				
[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]	[High] Keeps the current contrast ratio of the screen.		
		[Low]		k levels and raises t contrast ratio of	
	[HDMI ULTRA HD Deep Color]	Provides sharper images when connected to a device supporti ULTRA HD Deep Color.			ce supporting
			4K@ 60 Hz Si	upport Format ¹⁾	
		Danalusian	Frame	Color Depth / C	hroma Sampling
		Resolution	rate(Hz)	8 bit	10 bit
		3840 x 2160		YCbCr 4:2:0	
			59.94 60.00	YCbC	r 4:2:2
				YCbCr 4:4:4	-
				RGB 4:4:4	-
		1) Supported when [HDMI ULTRA HD Deep Color] is set to [On].			
		NOTE			
		If the connected device does not support ULTRA HD Deep Color, the feature may not work properly.			
		If a problem occurs, set the [HDMI ULTRA HD Deep Color] option to [Off].			
	[DFC]	[On] Adjusts the brightness automatically act the screen.		ally according to	
		[Off]	Disables the [DI	=C].	

[Menu] > [Picture]	Description				
[Picture Adjust]	[Response Time]	Sets a respons	Sets a response time for displayed pictures based on the speed of the screen.		
		For a normal environment, it is recommended that you use [Middle]. For a fast-moving picture, it is recommended that you use [High].			
		Setting to [Hig	Setting to [High] may cause image sticking.		
		[High]	Sets the response time to High.		
		[Middle]	Sets the response time to Middle.		
		[Low]	Sets the response time to Low.		
		[Off]	Does not use the response time improvement feature.		
	[Black Stabilizer]	You can contro	ol the black contrast to have better visibility in dark		
		Increasing the [Black Stabilizer] value brightens the low gray area on the screen. (You can easily distinguish objects on dar game screens.)			
			Reducing the [Black Stabilizer] value darkens the low gray level area and increases the dynamic contrast on the screen.		
	[Uniformity]	● NOT	Adjusts the uniformity of screen brightness. NOTE • Enabling [Uniformity] may reduce the overall brightness of the		
		image.			
		[On]	Enables the [Uniformity] feature.		
		[Off]	Disables the [Uniformity] feature.		

[Menu] > [Picture]	Description			
[Color Adjust]	[Gamma]	Custom gamma settings: [Gamma 1.8], [Gamma 2.0], [Gamma 2.2], [Gamma 2.4], [Gamma 2.6], [DICOM Gamma Curve], [Off]. The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes.		
	[Color Temp]	[Manual]	Adjusts the color temperature in 500K increments. (Note that 9300K is supported rather than 9500K.)	
		[Custom]	The user can customize the red, green and blue color.	
		[6500K]	Sets the picture color to the color temperature of a reddish 6500K.	
		[8500K]	Sets the picture color to the color temperatures of 8500K, setting to a color between red and blue.	
		[9300K]	Sets the picture color to the color temperature of a bluish 9300K.	
	[Red]			
	[Green]	You can customize the picture color using red, green and blue.		
	[Blue]			
	[Six Color]	Fulfills your color requirements by adjusting the hue and saturation of the six colors (red, green, blue, cyan, magenta and yellow). The settings are then saved.		
		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.	
	[Reset]	Returns the colo	ors to the default settings.	

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.

[Menu] > [General]	Description		
[Language]	Sets the menu screen to the desired language.		
[SMART ENERGY	Conserve energy by using luminance compensation algorithm.		
SAVING]	[High]	Saves energy using the high-efficiency [SMART ENERGY SAVING] feature.	
	[Low]	Saves energy using the low-efficiency [SMART ENERGY SAVING] feature.	
	[Off]	Disables the [SMART ENERGY SAVING] feature.	
[Power LED]	Turns the po	ower LED on the bottom of the monitor on or off.	
	[On]	The power LED turns on automatically.	
	[Off]	The power LED turns off.	
[Automatic Standby]	Feature that automatically turns off the monitor when there is no movement on the screen for a period of time. You can set a timer for the auto-off function. ([Off], [4H], [6H], and [8H])		

[Menu] > [General]	Description			
[DisplayPort 1.2]	Enables or disables [DisplayPort 1.2].			
	NOTE			
	 Be sure to configure this option according to the DisplayPort version supported by your graphics card. Set this option to [Disable] if your graphics card does not support DisplayPort 1.2. When [DisplayPort 1.2] is disabled, you cannot use the 10-bit output of your video card. 			
[Quick Charge]	[Quick Charg	ge] is a feature that rapidly charges the device connected to the USB 3.0 port.		
	[On]	Enables [Quick Charge].		
	[Off]	Disables [Quick Charge].		
[Buzzer]	This feature lets you set the sound generated from [Buzzer] when your monitor powers on to [On] or [Off].			
	[On]	Enables your monitor's [Buzzer].		
	[Off]	Disables your monitor's [Buzzer].		
[OSD Lock]	This feature disables the configuration and adjustment of menus.			
	[On]	Enables [OSD Lock].		
	[Off]	Disables [OSD Lock].		
	NOTE			
	All features are disabled except [Brightness], [Contrast], [Volume], [Input] in [Quick Settings], and [OSD Lock], [Information] in [General].			
[Information]	Displays the [Total Power On Time], [Serial Number] and [Resolution] information.			

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 yo	our settings?]		
[Reset]	Restores the default settings.		
[Cancel]	Cancel the reset.		

TROUBLESHOOTING

Nothing is displayed on the screen.	
Is the monitor's power cord plugged in?	Check if the power cord is correctly plugged into the power outlet.
Is the power LED on?	Check the power cable connection and press the power button.
Is the power on and the power LED displaying white?	Check that the connected input is enabled ([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 available 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.			
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?	screen may be flickering. Change the resolution to 1080p or the			
	recommended resolution.			



- Vertical Frequency: In order to display an image, the screen must be refreshed dozens of times per second, like a
 fluorescent lamp. The number of times the screen is refreshed per second is called vertical frequency, or refresh rate,
 and is represented by Hz.
- Horizontal Frequency: The time it takes to display one horizontal line is called the horizontal cycle. If 1 is divided by
 the horizontal interval, the result is the number of horizontal lines displayed per second. This is called horizontal
 frequency and is represented by kHz.
- Check if the graphics card's resolution or frequency is within the range allowed by the monitor and set it to the
 recommended (optimal) resolution Control Panel > Display > Settings in Windows. (The settings may differ
 depending on the operating system (OS) you use.)
- Not setting the graphics card to the recommended (optimal) resolution may result in blurred text, a dimmed screen, a truncated display area or misalignment of the display.
- The setting methods may be different depending on the computer or operating system, and some resolutions may
 not be available depending on the performance of the graphics card. If this is the case, contact the manufacturer of
 the computer or graphics card for assistance.
- Some graphics cards may not support 3840 x 2160 resolution. If the resolution cannot be displayed, contact the manufacturer of your graphics card.

The display color is abnormal.			
Does the display appear discolored (16 colors)?	 Set the color to 24 bit (true color) or higher. In Windows, go to Control Panel > Display > Settings > Color Quality. (The settings may differ depending on the operating system (OS) you use.) 		
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 and Play (VESA DDC) monitor found" message?			
Have you installed the display driver?	 Be sure to install the display driver from the display driver CD (or diskette) that comes with your display. Or, you can also download the driver from our web site: http://www.lg.com. 		
	Make sure to check if the graphics card supports Plug and Play function.		

No sound from the headphone port or speaker.			
Are images displayed using DisplayPort or	Try increasing the volume using the button on the monitor.		
HDMI input without sound?	Set the audio output of the PC to the monitor you are using. On Microsoft Windows, go to Control Panel > Hardware and Sound >		
	Sound > set the monitor as default device. (The settings may differ		
	depending on the operating system (OS) you use.)		

PRODUCT SPECIFICATIONS

The product specifications are subject to change without prior notice for product improvements.

" ~ " refers to alternating current (AC), " ____ " refers to direct current (DC).

LCD Screen	Туре	TFT (Thin Film Tra	nsistor)		
		LCD (Liquid Crysta	al Display) Screen		
	Pixel Pitch	0.1554 mm x 0.1	554 mm		
Resolution	Maximum resolution	2040 2160 0	2011		
	Recommended resolution	3840 x 2160 @ t	- 3840 x 2160 @ 60 Hz		
Video signal	Horizontal frequency	30 kHz to 135 kH	lz		
	Vertical frequency	56 Hz to 61 Hz			
Input Connectors	HDMI IN1, HDMI IN2, DP IN,	H/P, USB (SS[←]→) 1, 2	2, USB UP (SS<→)		
Power Source	Power Rating	19 V 3.42 A			
	Power consumption	Max. 65 W	Max. 65 W		
		Sleep Mode: ≤ 0.5	Sleep Mode: ≤ 0.5 W		
		Off Mode: ≤ 0.3 V	Off Mode: ≤ 0.3 W		
AC/DC Adaptor	DA-65J19 type, manufacture	ed by Asian Power Dev	ices Inc. (APD)		
	Input: 100-240 V~ 50-60 Hz	z, 1.5-0.7 A			
	Output: 19 V 3.42 A				
	Classification by protection t	ype against Electric Sh	ock : Class I		
Environmental	Operating Conditions	Temperature	0 °C to 40 °C (32 °F to 104 °F)		
Conditions		Humidity	0 % to 80 %		
		Pressure	700 hPa to 1060 hPa		
	Storing Conditions	Temperature	-20 °C to 60 °C (-4 °F to 140 °F)		
		Humidity	0 % to 85 %		
		Pressure	500 hPa to 1060 hPa		

Dimensions	Monitor Size (Width x Height x Depth)					
	With Stand 615.0 x 546.3 x 276.1 (mm) 24.2 x 21.5 x 10.8 (inches)					
	Without Stand 615.0 x 365.1 x 42.7 (mm) 24.2 x 14.3 x 1.6 (inches)					
Weight (without packaging)	With Stand	7.5 kg	16.5 lbs			
	Without Stand 4.7 kg 10.3 lbs					

Factory Support Mode

DisplayPort

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
800 x 600	37.879	60.317	+/+	
1024 x 768	48.363	60	-/-	
1152 x 864	54.347	60.05	+/+	
1280 x 720	45	60	+/+	
1280 x 1024	63.981	60.02	+/+	
1600 x 900	60	60	+/+	
1920 x 1080	67.5	60	+/-	
1920 x 2160	133.32	60	+/-	Recommended resolution for PBP
2560 x 1440	88.79	59.95	+/-	
3840 x 2160	66.66	30	+/-	
3840 x 2160	133.32	60	+/-	

HDMI

Preset Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Polarity (H/V)	Remarks
640 x 480	31.469	59.94	-/-	
800 x 600	37.879	60.317	+/+	
1024 x 768	48.363	60	-/-	
1152 x 864	54.347	60.05	+/+	
1280 x 720	45	60	+/+	
1280 x 1024	63.981	60.02	+/+	
1600 x 900	60	60	+/+	
1920 x 1080	67.5	60	+/-	
1920 x 2160	133.29	60	+/-	Recommended resolution for PBP
2560 x 1440	88.79	59.95	+/-	
3840 x 2160	67.5	30	+/-	
3840 x 2160	135	60	+/-	When the [HDMI ULTRA HD Deep Color] is set to [On]

HDMI Timing (Video)

Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remarks
480p	31.5	60	
720p	45.0	60	
1080p	67.5	60	
2160p	135	60	When the [HDMI ULTRA HD Deep Color] is set to [On]

Power LED

Mode	LED Color	
On Mode	White	
Sleep Mode	Flashing White	
Off Mode	Off	

LIMITED WARRANTY (USA)

THE PRODUCT'S FULL LIMITED WARRANTY TERMS AND CONDITIONS ARE AVAILABLE AT https://www.lg.com/us AND/OR YOUR WARRANTY

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG ELECTRONICS ("LG") TO RESOLVE DISPUTES BY BINDING ARBITRATION INSTEAD OF IN COURT, UNLESS YOU CHOOSE TO OPT OUT. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED "PROCEDURE FOR RESOLVING DISPUTES" BELOW.

PROCEDURE FOR RESOLVING DISPUTES:

ALL DISPUTES BETWEEN YOU AND LG ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. BINDING ARBITRATION MEANS THAT YOU AND LG ARE EACH WAIVING THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

Definitions. For the purposes of this section, references to "LG" mean LG Electronics U.S.A., Inc., its parents, subsidiaries and affiliates, and each of their officers, directors, employees, agents, beneficiaries, predecessors in interest, successors, assigns and suppliers; references to "dispute" or "claim" shall include any dispute, claim or controversy of any kind whatsoever (whether based in contract, tort, statute, regulation, ordinance, fraud, misrepresentation or any other legal or equitable theory) arising out of or relating in any way to the sale, condition or performance of the product or this Limited Warranty.

Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ 07632. You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number, identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days, either party may proceed to file a claim for arbitration.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after sending written notice to LG, you and LG agree to resolve any claims between us only by binding arbitration on an individual basis, unless you opt out as provided below. Any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim. More specifically, without limitation of the foregoing, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be administered by the American Arbitration Association ("AAA") and will be conducted before a single arbitrator under the AAA's Consumer Arbitration Rules that are in effect at the time the arbitration is initiated (referred to as the "AAA Rules") and under the procedures set forth in this section. The AAA Rules are available online at www.adr.org/consumer. Send a copy of your written demand for arbitration, as well as a copy of this provision, to the AAA in the manner described in the AAA Rules. You must also send a copy of your written demand to LG at LG Electronics, USA, Inc. Attn: Legal Department- Arbitration 111 Sylvan Avenue, Englewood Cliffs, NJ 07632. If there is a conflict between the AAA Rules and the rules set forth in this section, the rules set forth in this section will govern. This arbitration provision is governed by the Federal Arbitration Act. Judgment may be entered on the

arbitrator's award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the state of your residence shall govern this Limited Warranty and any disputes between us except to the extent that such law is preempted by or inconsistent with applicable federal law.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees to the AAA unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the AAA Rules. Except as otherwise provided for herein, LG will pay all AAA filing, administration and arbitrator fees for any arbitration initiated in accordance with the AAA Rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the standards set forth in Federal Rule of Civil Procedure 11(b)), then the payment of all arbitration fees will be governed by the AAA Rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the AAA Rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely on the basis of (1) documents submitted to the arbitrator, (2) through a telephonic hearing, or (3) by an in-person hearing as established by the AAA Rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the AAA Rules. Any in-person arbitration hearings will be held at a location within the federal judicial district in which you reside unless we both agree to another location or we agree to a telephonic arbitration.

Opt Out. You may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either. (i) sending an e-mail to optout@lge.com, with the subject line: "Arbitration Opt Out" or (ii) calling 1- 800-980-2973. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number, and (d) the serial number (the serial number can be found (i) on the product; or (ii) online by accessing https://www.lg.com/us/support and clicking on "How do I find my model number?").

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure.

Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above.

LIMITED WARRANTY (CANADA)

THE PRODUCT'S FULL LIMITED WARRANTY TERMS AND CONDITIONS ARE AVAILABLE AT https://www.lg.com/ca_en/AND/OR YOUR WARRANTY.

ARBITRATION NOTICE: THIS LIMITED WARRANTY CONTAINS AN ARBITRATION PROVISION THAT REQUIRES YOU AND LG TO RESOLVE DISPUTES BY BINDING ARBITRATION INSTEAD OF IN COURT, UNLESS THE LAWS OF YOUR PROVINCE OR TERRITORY DO NOT PERMIT THAT, OR, IN OTHER JURISDICTIONS, IF YOU CHOOSE TO OPT OUT. FOR FURTHER CLARITY, THIS ARBITRATION PROVISION IS NOT APPLICABLE TO CONSUMERS RESIDING IN ONTARIO AND QUÉBEC. IN ARBITRATION, CLASS ACTIONS AND JURY TRIALS ARE NOT PERMITTED. PLEASE SEE THE SECTION TITLED "PROCEDURE FOR RESOLVING DISPUTES" BELOW.

· DISCLAIMER:

IF YOU ARE A CONSUMER SUBJECT TO QUÉBEC AND ONTARIO'S CONSUMER PROTECTION ACT, THE EXCLUSION OF WARRANTIES CONTAINED IN THIS SECTION DO NOT EXCLUDE OR LIMIT THE RIGHTS AND REMEDIES THAT YOU MAY HAVE UNDER SUCH ACT, INCLUDING THE RIGHT TO MAKE A CLAIM UNDER ANY OF THE STATUTORY WARRANTIES PROVIDED THEREUNDER.

PROCEDURE FOR RESOLVING DISPUTES:

EXCEPT WHERE PROHIBITED AT LAW (INCLUDING WITH RESPECT TO QUÉBEC AND ONTARIO CONSUMERS), ALL DISPUTES BETWEEN YOU AND LG ARISING OUT OF OR RELATING IN ANY WAY TO THIS LIMITED WARRANTY OR THE PRODUCT SHALL BE RESOLVED EXCLUSIVELY THROUGH BINDING ARBITRATION, AND NOT IN A COURT OF GENERAL JURISDICTION. EXCEPT WHERE PROHIBITED AT LAW (INCLUDING WITH RESPECT TO QUÉBEC AND ONTARIO CONSUMERS), YOU AND LG BOTH IRREVOCABLY AGREE TO WAIVE THE RIGHT TO A JURY TRIAL AND TO BRING OR PARTICIPATE IN A CLASS ACTION.

Definitions. For the purposes of this section, references to "LG" mean LG Electronics Canada, Inc., its parents, subsidiaries and affiliates, and each of their officers, directors, employees, agents, beneficiaries, predecessors in interest, successors, assigns and suppliers; references to "dispute" or "claim" shall include any dispute, claim or controversy of any kind whatsoever (whether based in contract, tort, statute, regulation, ordinance, fraud, misrepresentation or any other legal or equitable theory) arising out of or relating in any way to the sale, condition or performance of the product or this Limited Warranty.

Notice of Dispute. In the event you intend to commence an arbitration proceeding, you must first notify LG in writing at least 30 days in advance of initiating the arbitration by sending a letter to LGECI Legal Team at 20 Norelco Drive, North York, Ontario, Canada M9L 2X6 (the "Notice of Dispute"). You and LG agree to engage in good faith discussions in an attempt to amicably resolve your claim. The notice must provide your name, address, and telephone number, identify the product that is the subject of the claim; and describe the nature of the claim and the relief being sought. If you and LG are unable to resolve the dispute within 30 days of LG's receipt of the Notice of Dispute, the dispute shall be resolved by binding arbitration in accordance with the procedure set out herein. You and LG both agree that, during the arbitration proceeding, the terms (including any amount) of any settlement offer made by either you or LG will not be disclosed to the arbitrator until the arbitrator determines the dispute.

Agreement to Binding Arbitration and Class Action Waiver. Upon failure to resolve the dispute during the 30 day period after LG's receipt of the Notice of Dispute, you and LG agree to resolve any claims between you and LG only by binding arbitration on an individual basis, unless you opt out as provided below, or you reside in a jurisdiction that prevents full application of this clause in the circumstances of the claims at issue (in which case if you are a consumer, this clause will only apply if you expressly agree to the arbitration). To the extent permitted by applicable law, any dispute between you and LG shall not be combined or consolidated with a dispute involving any other person's or entity's product or claim. More specifically, without limitation of the foregoing, except to the extent such a prohibition is not permitted at law, any dispute between you and LG shall not under any circumstances proceed as part of a class or representative action. Instead of arbitration, either party may bring an individual action in small claims court, but that small claims court action may not be brought on a class or representative basis except to the extent this prohibition is not permitted at law in your province or territory of jurisdiction as it relates to the claims at issue between you and LG. This does not apply to consumers in Ontario and Québec. In accordance with provincial legislation, the consumer and LG may agree to resolve the dispute using any procedure available, including commencing the action before the competent courts of those provinces.

Arbitration Rules and Procedures. To begin arbitration of a claim, either you or LG must make a written demand for arbitration. The arbitration will be private and confidential, and conducted on a simplified and expedited basis before a single arbitrator chosen by the parties under the provincial or territorial commercial arbitration law and rules of the province or territory of your residence. You must also send a copy of your written demand to LG at LG Electronics, Canada, Inc., Attn: Legal Department- Arbitration, 20 Norelco Drive, North York, Ontario M9L 2X6. This arbitration provision is governed by your applicable provincial or territorial commercial arbitration legislation. For consumers in Ontario and Québec, the applicable arbitration legislation only applies if consumers agree to submit the dispute to arbitration. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction. All issues are for the arbitrator to decide, except that, issues relating to the scope and enforceability of the arbitration provision and to the arbitrability of the dispute are for the court to decide. The arbitrator is bound by the terms of this provision.

Governing Law. The law of the province or territory of your purchase shall govern this Limited Warranty and any disputes between you and LG except to the extent that such law is preempted by or inconsistent with applicable federal or provincial/territorial law. Should arbitration not be permitted for any claim, action, dispute or controversy between you and LG, you and LG attorn to the exclusive jurisdiction of the courts of the province or territory of your purchase for the resolution of the claim, action, dispute or controversy between you and LG.

Fees/Costs. You do not need to pay any fee to begin an arbitration. Upon receipt of your written demand for arbitration, LG will promptly pay all arbitration filing fees unless you seek more than \$25,000 in damages, in which case the payment of these fees will be governed by the applicable arbitration rules. Except as otherwise provided for herein, LG will pay all filing, administration and arbitrator fees for any arbitration initiated in accordance with the applicable arbitration rules and this arbitration provision. If you prevail in the arbitration, LG will pay your attorneys' fees and expenses as long as they are reasonable, by considering factors including, but not limited to, the purchase amount and claim amount. Notwithstanding the foregoing, if applicable law allows for an award of reasonable attorneys' fees and expenses, an arbitrator can award them to the same extent that a court would. If the arbitrator finds either the substance of your claim or the relief sought in the demand is frivolous or brought for an improper purpose (as measured by the applicable laws), then the payment of all arbitration fees will be governed by the applicable arbitration rules. In such a situation, you agree to reimburse LG for all monies previously disbursed by it that are otherwise your obligation to pay under the applicable arbitration rules. Except as otherwise provided for, LG waives any rights it may have to seek attorneys' fees and expenses from you if LG prevails in the arbitration.

Hearings and Location. If your claim is for \$25,000 or less, you may choose to have the arbitration conducted solely (1) on the basis of documents submitted to the arbitrator, (2) through a telephonic hearing, or (3) by an in-person hearing as established by the applicable arbitration rules. If your claim exceeds \$25,000, the right to a hearing will be determined by the applicable arbitration rules. Any in-person arbitration hearings will be held at the nearest, most mutually-convenient arbitration location available within the province or territory in which you reside unless you and LG both agree to another location or agree to a telephonic arbitration.

Severability and Waiver. If any portion of this Limited Warranty (including these arbitration procedures) is unenforceable, the remaining provisions will continue in full force and effect to the maximum extent permitted by applicable law. Should LG fail to enforce strict performance of any provision of this Limited Warranty (including these arbitration procedures), it does not mean that LG intends to waive or has waived any provision or part of this Limited Warranty.

Opt Out. The arbitration provision requires you and LG to resolve disputes by binding arbitration instead of court, unless the laws of your province or territory do not permit that, or, in other jurisdictions, if you choose to opt out. The arbitration provision does not apply to consumers in Ontario and Québec.

For individuals that fall within the binding arbitration provisions, you may opt out of this dispute resolution procedure. If you opt out, neither you nor LG can require the other to participate in an arbitration proceeding. To opt out, you must send notice to LG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the product by either (i) sending an e-mail to optout@lge.com, with the subject line: "Arbitration Opt Out;" or (ii) calling 1-800-980-2973. You must include in the opt out e-mail or provide by telephone: (a) your name and address; (b) the date on which the product was purchased; (c) the product model name or model number; and (d) the serial number (the serial number can be found (i) on the product; or (ii) online by accessing https://www.lg.com/ca_en/findmodel_serial/).

In the event that you "Opt Out", the law of the province or territory of your residence shall govern this Limited Warranty and any disputes between you and LG except to the extent that such law is preempted by or inconsistent with applicable federal or provincial/territorial law. Should arbitration not be permitted for any claim, action, dispute or controversy between you and LG, you and LG agree to attorn to the exclusive jurisdiction

of the courts of the province or territory of your residence for the resolution of the claim, action, dispute or controversy between you and LG.

You may only opt out of the dispute resolution procedure in the manner described above (that is, by e-mail or telephone); no other form of notice will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the full benefits of the Limited Warranty. If you keep this product and do not opt out, then you accept all terms and conditions of the arbitration provision described above.

Conflict of Terms. In the event of a conflict or inconsistency between the terms of this Limited Warranty and the End User License Agreement ("EULA") in regards to dispute resolution, the terms of this Limited Warranty shall control and govern the rights and obligations of the parties and shall take precedence over the EULA.



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

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

Model

Serial No.

Supplier's Declaration of Conformity

Trade Name LG

E-mail

Responsible Party LG Electronics USA, Inc.

Address 111 Sylvan Avenue, North Building,

Englewood Cliffs, NJ 07632

lg.environmental@lge.com