

OWNER'S MANUAL LED LCD Monitor (LED Monitor*)

*LG LED Monitors are LCD Monitors with LED Backlighting.

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

LED LCD MONITOR MODEL

24M49

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LICENSE

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



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

The following content is only applied to the monitor which is sold in Europe market and which needs to meet the ErP Directive:

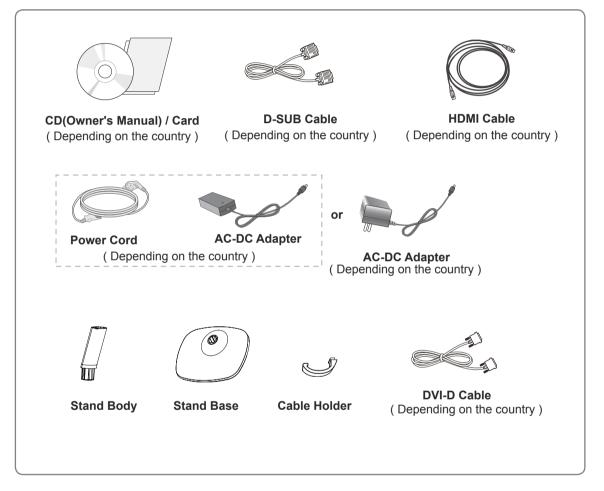
* This monitor is set to be turned off automatically in 4 hours after you turned on display if there is no adjustment to display.

* To make this setting be disabled, change the option to 'Off' in OSD menu of "Automatic Standby".

ASSEMBLING AND PREPARING

Unpacking

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.



CAUTION -

- Do not use any unapproved accessories to ensure the safety and product life span.
- Any damages or injuries by using unapproved accessories are not covered by the warranty.

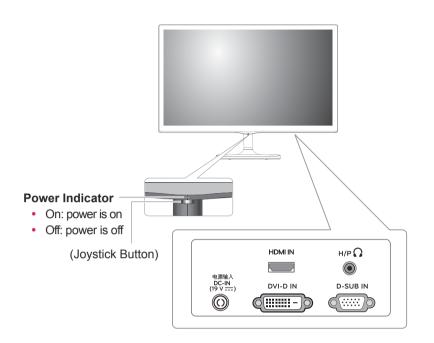
- The accessories supplied with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.

Supported Drivers and Software

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

Drivers and Software	Installation Priority	24M49
Monitor Driver	Recommended	0
OnScreen Control	Recommended	0

Parts and buttons



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

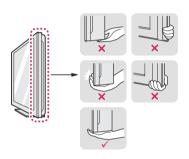
NOTE -

	@	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.

When moving or lifting the monitor, follow these instructions to prevent the monitor from being scratched or damaged and to ensure safe transportation regardless of its shape or size.

- It is advisable to place the monitor in the original box or packing material before attempting to move it.
- Before moving or lifting the monitor, disconnect the power cord and all cables.
- Hold the top and bottom of the monitor frame firmly. Do not hold the panel itself.



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



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

• 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.



Setting up the Monitor set

Attaching the Stand Base

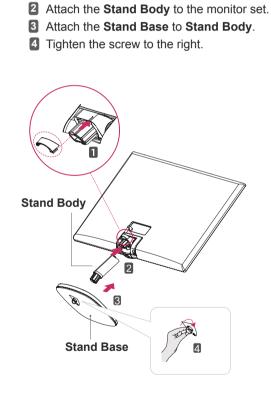
1 Place the Monitor set with the screen side down on a flat and cushioned surface.

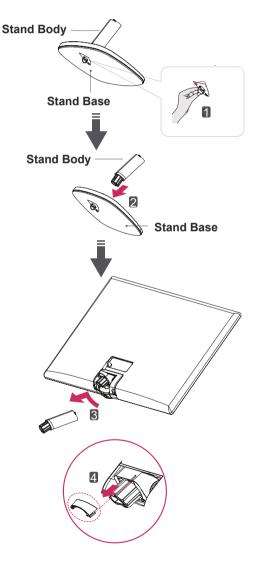
2 1 Insert the Cable Holder.

Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

Detaching the Stand Base

- 1 Place the Monitor set with the screen side down on a flat and cushioned surface.
- 2 1 Turn the screw to the left.
 - 2 Pull out the Stand Base.
 - Pull out the Stand Body from the monitor set.
 - 4 Separate the Cable Holder.



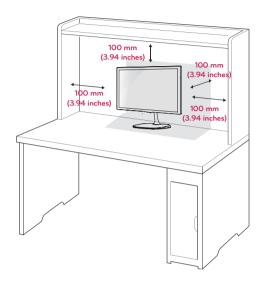


- Illustrations in this document represent typical procedures, so they may look different from the actual product.
- Do not carry the monitor upside down by just holding the stand base. This may cause the monitor to fall off the stand and could result in personal injury.
- When lifting or moving the monitor, do not touch the monitor screen. The force applied to the monitor screen may cause damage to it.
- Do not 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.

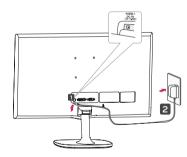
Mounting on a table

1 Lift and tilt the Monitor set into its upright position on a table.

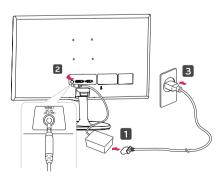
Leave a 100 mm (3.94 inches) (minimum) space from the wall for proper ventilation.



2 Connect the AC-DC Adapter and Power Cord to a wall outlet.



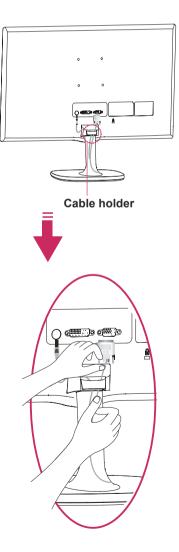




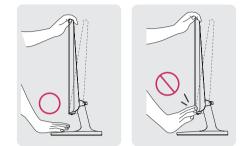
3 Press the joystick button on the bottom of the monitor to turn on the monitor.

Unplug the power cord before moving the Monitor to another location. Otherwise electric shock may occur.

Using the cable holder



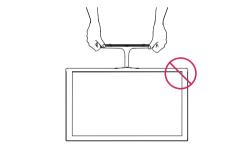
When you adjust the angle, do not hold the bottom of the Monitor set frame as shown on the following illustration, as may injure your fingers.



Do not touch or press the screen when adjusting the angle of the monitor.



Do not hold this set like below picture.Monitor screen can detach from stand base and injure your body.



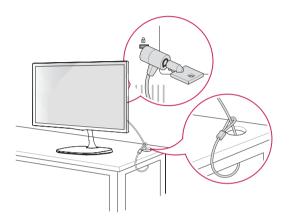
NOTE Tilt from +20 to -5 degrees up or down to adjust the angle of the Monitor set to suit your view. 5 20° Front

Rear

Using the Kensington security system

The Kensington security system connector is located at the back of the Monitor set. For more information of installation and using, refer to the manual supplied with the Kensington security system or visit http://www.kensington.com.

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

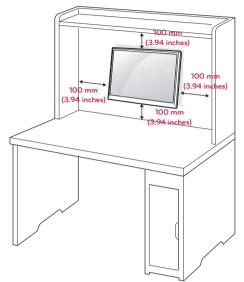


NOTE -

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

Mounting on a wall

For proper ventilation, allow a clearance of 100 mm (3.94 inches) on each side and from the wall. Detailed instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



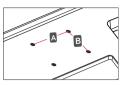
If you intend to mount the Monitor set to a wall, attach Wall mounting interface (optional parts) to the back of the set.

When you install the Monitor set using a wall mounting interface (optional parts), attach it carefully so it will not drop.

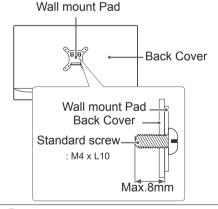
- 1 If you use screw longer than standard, the monitor might be damaged internally.
- 2 If you use improper screw, the product might be damaged and drop from mounted position. In this case, LG Electronics is not responsible for it.

Wall Mount (A x B)	75 x 75
Standard screw	M4 x L10
Number of screws	4
Wall Mount Plate (Optional)	RW120

• Wall Mount (A x B)



- Disconnect the power cord first, and then move or install the Monitor set. Otherwise electric shock may occur.
- If you install the Monitor set on a ceiling or slanted wall, it may fall and result in severe injury.
- Use only an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the Monitor set and void your warranty.
- Use only screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.
- Screw length from outer surface of back cover should be under 8mm.



- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit will include an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Be sure to use the proper length.
- For more information, refer to the instructions supplied with the wall mount.

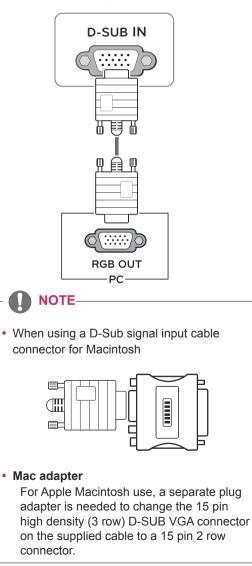
USING THE MONITOR SET

Connecting to a PC

• Your Monitor set supports Plug & Play*. *Plug & Play: A PC recognizes a connected device that users connect to a PC and turn on, without device configuration or user intervention.

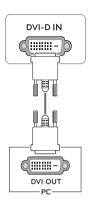
D-SUB connection

Transmits analog video from your PC to the Monitor set. Connect the PC and the Monitor set with the supplied D-sub 15 pin signal cable as shown in the following illustrations.



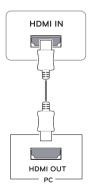
DVI-D connection

Transmits a digital video signal from your PC to the Monitor set. Connect the PC and the Monitor set with a DVI cable as shown in the following illustrations.



HDMI connection

Transmits the digital video and audio signals from your PC to the Monitor set. Connect the PC and the Monitor set with the HDMI cable as shown in the following illustrations.



- If you use HDMI PC, it can cause compatibility problem.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
- High-Speed HDMI[®]/[™] Cable
- High-Speed HDMI[®]/[™] Cable with Ethernet

CAUTION -

 Connect the signal input cable and tighten it by turning the screws clockwise.



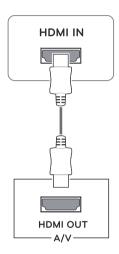
- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.

- When you want to use two PC in our Monitor, please connect the signal cable(D-SUB/ DVI-D/HDMI) respectively in Monitor set.
- If you turn the Monitor set on while it is cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.

Connecting to AV Devices

HDMI connection

Transmits the digital video and audio signals from your AV devices to the monitor. Connect your AV device to the monitor with the HDMI cable as illustrated below.

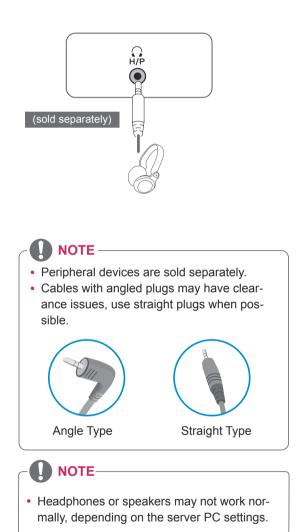


- If you use HDMI PC, it can cause compatibility problem.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
- High-Speed $\text{HDMI}^{\texttt{B}}/^{\text{TM}}$ Cable
- High-Speed HDMI[®]/[™] Cable with Ethernet

Connecting to External Devices

Peripheral device connection

Connect peripheral devices to the monitor using headphone ports.



CUSTOMIZING SETTINGS

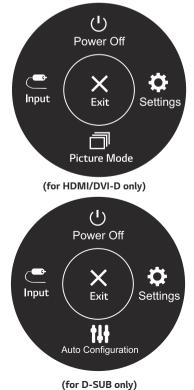
Activating the Main Menu

- 1 Press the joystick button on the bottom of the monitor.
- 2 Move the joystick up/down (\blacktriangle/∇) and left/right($\blacktriangleleft/\triangleright$) to set the options.
- 3 Press the joystick button once more to close the main menu.



Button	Menu Status		Description
	Main menu disabled Main menu enabled		Enables the main menu.
			Close the main menu. (Long press the button to turn off the monitor)
		Main menu disabled	Adjusts the monitor volume level. (for HDMI only)
		Main menu enabled	Enters the input features.
		Main menu disabled	Adjusts the monitor volume level. (for HDMI only)
		Main menu enabled	Enters the Settings feature.
		Main menu disabled	Displays the information on the current input.
		Main menu enabled	Turns off the monitor.
	_	Main menu disabled	Displays the information on the current input.
		Main menu enabled	Enters the picture mode feature. (for HDMI/DVI-D only)

Main Menu Features



Main Menu	Description
Settings	Configures the screen settings.
Picture Mode (for HDMI/DVI-D only)	Select picture mode to achieve the best display effect.
Auto Configuration (for D-SUB only)	Operate the Auto configuration for optimal display in D-SUB.
Input	Sets input mode.
Power Off	Turns off the monitor.
Exit	Exits the main menu.

Customizing settings

Settings > Quick Set- tings	Description	
Brightness	Adjusts the contrast and brightness of the coresp	
Contrast	Adjusts the contrast and brightness of the screen.	
Volume	Adjusts the volume.(for HDMI only)	
	NOTE	
	 You can adjust Mute/ Unmute by moving the joystick button to ▼ in the Volume menu. 	

Settings > Input		Description	
Input List	Selects the ir	Selects the input mode.	
Aspect Ratio	Adjusts the a	Adjusts the aspect ratio of the screen.	
	Full Wide	Full Wide Displays the video in wide-screen, regardless of the video signal input.	
	Original	Original Displays video according to the aspect ratio of the video signal input.	
		 NOTE The options may disabled at the recommended resolution (1920 x 1080). 	

Customizing settings

Settings > Picture	Description		
Picture Mode	Custom	Allows the user t justed.	to adjust each element. The color mode of the main menu can be ad-
	Reader	Optimizes the so menu.	preen for viewing documents. You can brighten the screen in the OSD
	Photo	Optimizes the sc	reen to view photos.
	Cinema	Optimizes the sc	reen to improve the visual effects of a video.
	Color Weak- ness	This mode is for ers with color we	users who cannot distinguish between red and green. It enables us- akness to easily distinguish between the two colors.
	Game	Optimizes the so	reen for gameplay.
Picture Adjust	Brightness	Adjusts the contrast and brightness of the screen.	
	Contrast		
	Sharpness	Adjusts the sharpness of the screen.	
SUPER RESOLU- TION+	RESOLU-	High	Optimized picture quality is displayed when a user wants crystal clear images. It is effective forhigh quality video or game.
	HON+	Middle	The optimized picture quality is displayed when a user wants im- ages between low and high modes for comfortable viewing. It is ef- fective 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.
Black Level		Sets the offset level (for HDMI only). Offset: as a reference for a video signal, this is the darkest color the monitor can display. 	
		High	Keeps the current contrast ratio of the screen.
		Low	Lowers the black levels and raises the white levels from the current con- trast ratio of the screen.
	DFC	On	Adjusts the brightness automatically according to the screen.
		Off	Disables the DFC feature.



- This is subsidiary for color weakness user. Therefore if you feel uncomfortable with the screen, please turn off this function.
- This function can't distinguish some colors in some images.

Game Adjust	Response Time	For a normal envir For a fast-moving	me for displayed pictures based on the speed of the screen. onment, it is recommended that you use Fast . picture, it is recommended that you use 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.	
		Off	Does not use the response time improvement feature.	
	Black Stabilizer	Black Stabilizer. You can control the black contrast to have better visibility in dark scenes. Increasing the Black Stabilizer value brightens the low gray level area on the screen. (You can easily distinguish objects on dark game screens.) Reducing the Black Stabilizer value darkens the low gray level area and increases the dynamic contrast on the screen.		
	Cross Hair	 Cross Hair provides a mark on the center of the screen for First Person Shooter(FPS) games. Users can select the cross hair that fits their gaming environment among four different cross hairs. When the monitor is off or enters energy saving mode, the Cross Hair feature is automatically turned off. 		
Color Adjust	Gamma	Mode 1, Mode 2, Mode 3	The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes.	
		Mode 4	If you do not need to adjust the gamma settings, select Mode 4.	
	Color Temp	Selects the factory default picture color. Warm: Sets the screen color to a reddish tone. Medium: Sets the screen color between a red and blue tone. Cool: Sets the screen color to a bluish tone. Custom: The user can adjust it to red, green or blue by customization.		
	Red/Green/ Blue	You can customize the picture color using Red, Green, and Blue colors.		
Configuration	Horizontal	To move image left and right.		
Adjust (D-SUB only)	Vertical	To move image up and down.		
(,	Clock	To minimize any vertical bars or stripes visible on the screen background.The horizontal screen size will also change.		
	Phase To adjust the focus of the display. This item allows you to remove any horizontal noise or sharpen the image of characters.			
Resolution (D-SUB only)	Iv) to the following(D-SUB only). Iv) NOTE The function is enabled only when the screen resolution on your computer is set to the following, except that the PC output wrong resolution. 1024x768, 1280x768, 1360x768, 1366x768,0ff			
			g resolution.	
		1280x960, 1600x900,0ff		
	1440x900, 1600x900,Off			
Picture Reset		reset your setting	5?	
	No	Cancel the select.		
	Yes	Returns to the default settings.		

Customizing settings

Settings > General	Description		
Language	To choose the language in which the control names are displayed.		
SMART ENERGY	High	Saves energy using the high-efficiency SMART ENERGY SAVING feature.	
SAVING	Low	Saves energy using the low-efficiency SMART ENERGY SAVING feature.	
	Off	Disables the SMART ENERGY SAVING feature.	
Power LED	Turns the power i	ndicator on the front side of the monitor on/off.	
	On	The power indicator is automatically turned on.	
	Off	The power indicator is turned off.	
Automatic Standby	The monitor will automatically switch to standby mode after a certain period.		
OSD Lock	Prevents incorrect key input.		
	On	Key input is disabled.	
	NOTE All function e ume are disal	xcept for the OSD Lock mode, brightness, Contrast, Input, Information and Vol- oled.	
	Off	Key input is enabled.	
Information	The display information will be shown the Model, Serial Number, Total Power On Time, Resolution.		
Reset	Do you want to reset your settings?		
	No	Cancel the select.	
	Yes	Returns to the default settings.	



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

TROUBLESHOOTING

Check the following before calling for service.

No image appears	
Is the power cord of the display connected?	Check and see if the power cord is connected properly to the power outlet.
Is the power indicator light on?	Press the Power button.
Is the power indicator flickering?	 If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen. Try to turn on the PC.
Do you see an "OUT OF RANGE" message on the screen?	• This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the display. See the 'Specifications' section of this manual and configure your display again.
Do you see a "NO SIGNAL" message on the screen?	• This is displayed when the signal cable between the PC and the monitor is missing or disconnected. Check the cable and reconnect it.

Can 't you control some functions in OSD?		
Can't you select some menu in	You can unlock the OSD controls at any time by entering the OSD	
OSD?	lock menu and changing items to off.	

Display image is incorrect		
Display Position is incorrect.	• Enter the Auto Configuration function and select the "Yes" item to automatically adjust your display image to the ideal setting.	
On the screen background, vertical bars or stripes are visible.	• Enter the Auto Configuration function and select the "Yes" item to automatically adjust your display image to the ideal setting.	
Any horizontal noise appearing in any image or characters are not clearly portrayed.	 Enter the Auto Configuration function and select the "Yes" item to automatically adjust your display image to the ideal setting. Check Control Panel ► Display ► Settings and adjust the display to the recommended resolution or adjust the display image to the ideal setting. Set the color setting higher than 24 bits (true color). 	

- Check **Control Panel** ► **Display** ► **Settings** and see if the frequency or the resolution were changed. If yes, readjust the video card to the recommend resolution.
- If the recommended resolution (optimal resolution) is not selected, letters may be blurred and the screen may be dimmed, truncated or biased. Make sure to select the recommend resolution.
- The setting method can differ by computer and O/S (Operation System), and resolution mentioned above may not be supported by the video card performance. In this case, please ask to the computer or the video card manufacturer.

Display image is incorrect	
The screen color is mono or abnormal.	 Check if the signal cable is properly connected and use a screwdriver to fasten if necessary. Make sure the video card is properly inserted in the slot. Set the color setting higher than 24 bits (true color) at Control Panel Settings.
The screen blinks.	Check if the screen is set to interlace mode and if yes, change it to the recommend resolution.

Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?	
Have you installed the display driver?	 Be sure to install the display driver from our web site: <i>http://www.lg.com.</i> Make sure to check if the video card supports Plug&Play function.

SPECIFICATIONS

Screen Type	TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel	
	Anti-Glare coating	
Pixel Pitch	0.2715 mm x 0.2715 mm (Pixel Pitch)	
Мах	1920 x 1080 @ 60 Hz	
Recommend	VESA 1920 x 1080 @ 60 Hz	
On Mode : 24.2 W Typ. (0 Sleep Mode \leq 0.3 W Off Mode \leq 0.3 W	Dutgoing condition) **	
19 V 1.3 A		
Type ADS-40SG-19-3 19025G, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPG-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPBR-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPI-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPCU-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPCU-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPB-2, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-25FSG-19 19025EPCU-1L, manufactured by SHENZHEN HONOR ELECTRONIC or Type LCAP21, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-E, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-I, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-B, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE		
With Stand	557.1 mm x 438.2 mm x 195.2 mm	
Without Stand	557.1 mm x 342.6 mm x 65.5 mm	
With Stand	2.8 kg	
Without Stand	2.5kg	
Operating Temperature Operating Humidity	0 °C to 40 °C ≤ 80 %	
	Pixel Pitch Max Recommend On Mode : 24.2 W Typ. (C Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W 19 V 1.3 A Type ADS-40SG-19-3 19025G, or Type ADS-40FSG-19 19025 or Type LCAP26-L, manufacture or Type LCAP26-E, manufacture or Type LCAP26-E, manufacture OUTPUT: 19 V 1.3 A With Stand With Stand With Stand Without Stand Operating Temperature	

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

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

Preset Modes (Resolution)

D-SUB/DVI-D/HDMI PC Timing

Display Modes (Resolution)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	Polarity(H/V)	
720 x 400	31.468	70	-/+	
640 x 480	31.469	60	-/-	
640 x 480	37.500	75	-/-	
800 x 600	37.879	60	+/+	
800 x 600	46.875	75	+/+	
1024 x 768	48.363	60	-/-	
1024 x 768	60.023	75	+/+	
1152 x 864	67.500	75	+/+	
1280 x 1024	63.981	60	+/+	
1280 x 1024	79.976	75	+/+	
1680 x 1050	65.290	60	-/+	
1920 x 1080	67.500	60	+/+	Recommend Mode

HDMI Timing(Video)

Factory support mode (Preset Mode)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	HDMI
480P	31.50	60	0
576P	31.25	50	0
720P	37.50	50	0
720P	45.00	60	0
1080P	56.25	50	0
1080P	67.50	60	O Recommend Mode

Indicator

Mode	LED Color
On Mode	White
Sleep Mode	Blinking White
Off Mode	Off



Supplier's Declaration of Conformity		
Trade Name	LG	
Responsible Party	LG Electronics USA, Inc.	
Address	1000 Sylvan Ave Englewood Cliffs,	
	NJ 07632	
Telephone	(201)266-2215	

Make sure to read the Safety Precautions before using the product.

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.

SERIAL