LG
Life's Good

Owner's Manual
IPS LED 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.

IPS LED MONITOR MODEL

22MP68VQ
23MP68VQ
24MP68VQ
27MP68VQ

www.lg.com

ENGLISH

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LICENSE

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



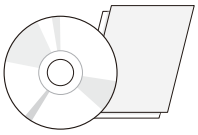
The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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

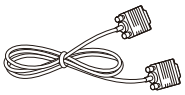
ASSEMBLING AND PREPARING

Unpacking

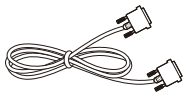
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.



CD(Owner's Manual) / Card



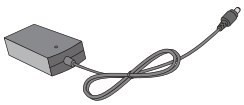
D-SUB Cable
(This cable is not included in all countries.)



DVI-D Cable
(This cable is not included in all countries.)



Power Cord



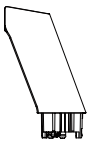
AC-DC Adapter

(Depending on the country)

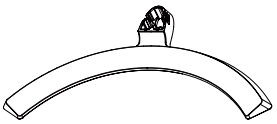
or



AC-DC Adapter
(Depending on the country)



Stand Body



Stand Base



Cable Holder



HDMI Cable
(This cable is not included in all countries.)

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.

NOTE

- 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.

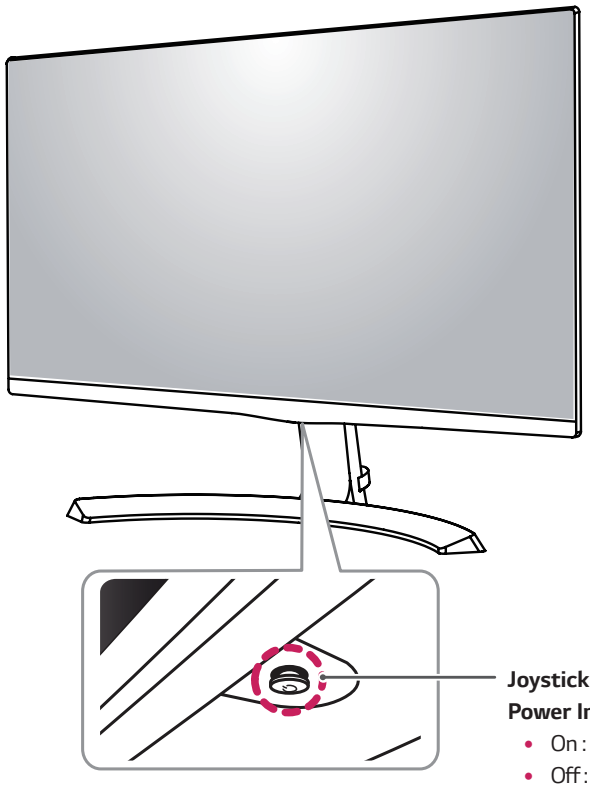
Supported Drivers and Software

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	22MP68VQ , 23MP68VQ 24MP68VQ , 27MP68VQ
Monitor Driver	Recommended	O
OnScreen Control	Recommended	O

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

Parts and buttons



Joystick Button/
Power Indicator

- On : power is on
- Off : power is off

How to Use the Joystick Button

You can easily control the functions of the monitor by pressing the joystick button or moving it left/right with your finger.

Basic Functions

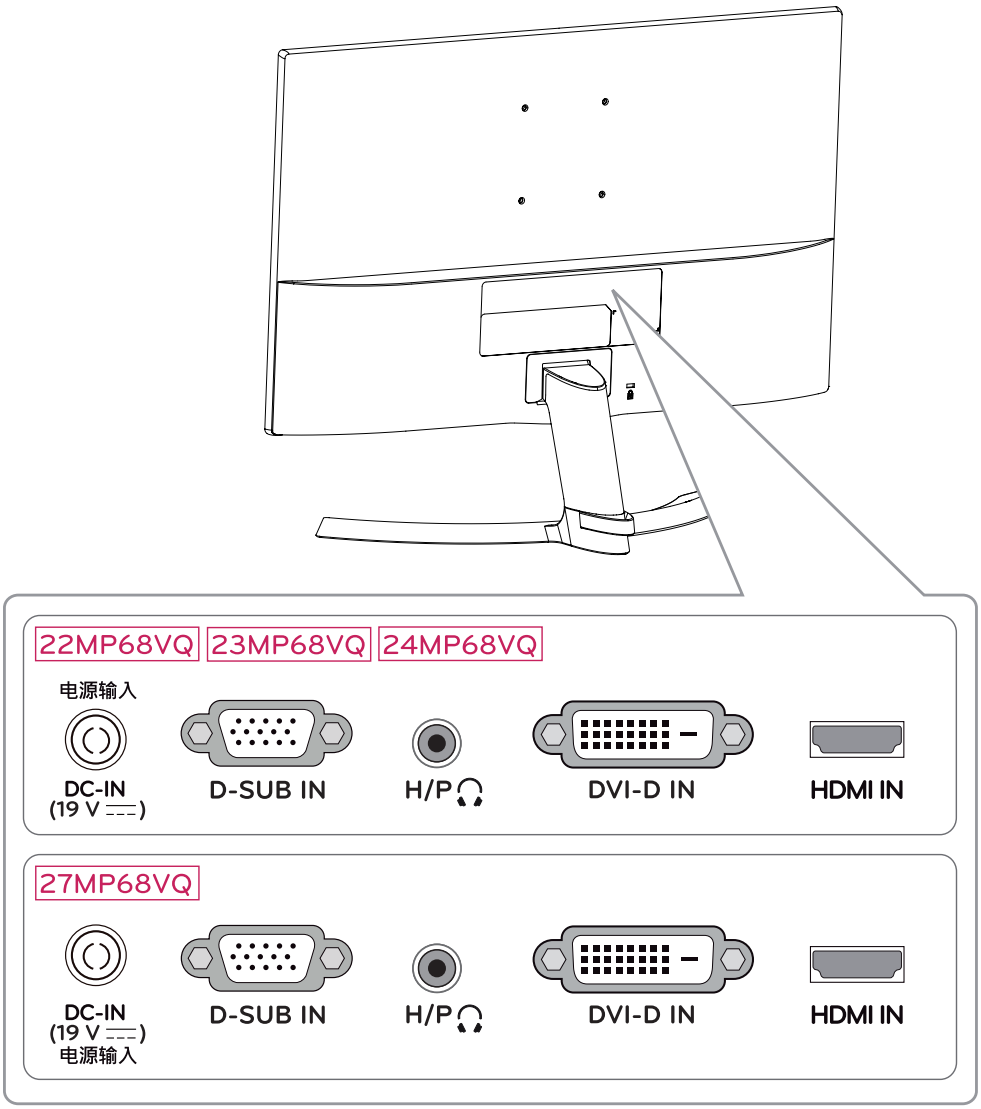
	⏻	**Power on**	Press the joystick button once with your finger to turn on the monitor.
	⏻	**Power off**	Press and hold the joystick button once with your finger to turn off the monitor.
	◀/▶	**Volume Control**	You can control the volume by moving the joystick button left/right.

NOTE

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

Parts and buttons

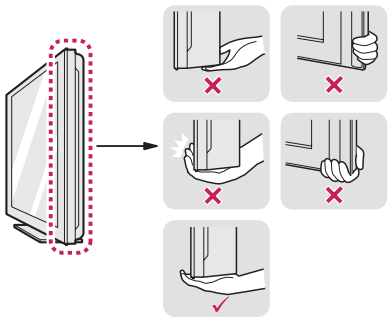
Input Connector



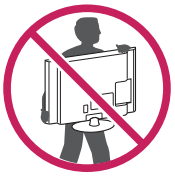
Moving and Lifting the Monitor

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

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



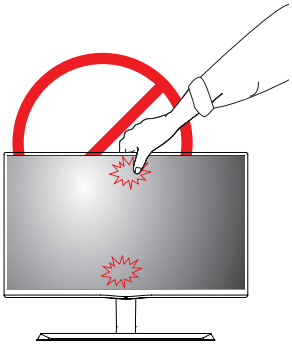
- When holding the monitor, the screen should face away from you to prevent it being scratched.



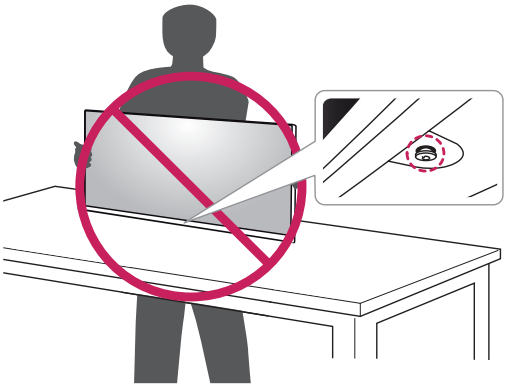
- When moving the monitor, avoid any strong shock or vibrations to the product.
- When moving the monitor, keep it upright, never turn the monitor on its side or tilt it sideways.

CAUTION

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



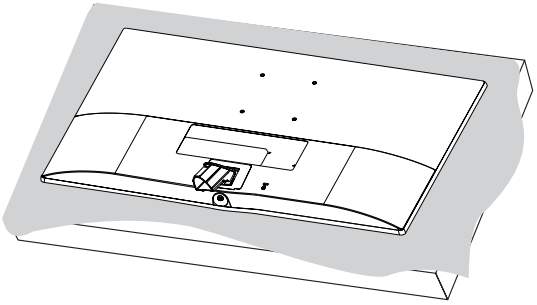
- If you use the monitor panel without the stand base, its joystick button may cause the monitor to become unstable and fall, resulting in damage to the monitor or human injury. In addition, this may cause the joystick button to malfunction.



Setting up the Monitor set

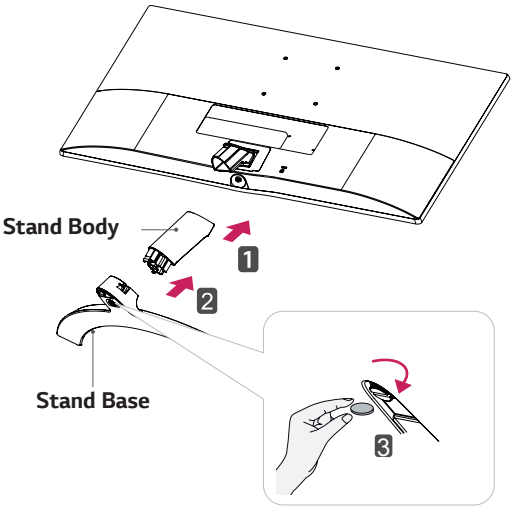
Attaching the Stand Base

1



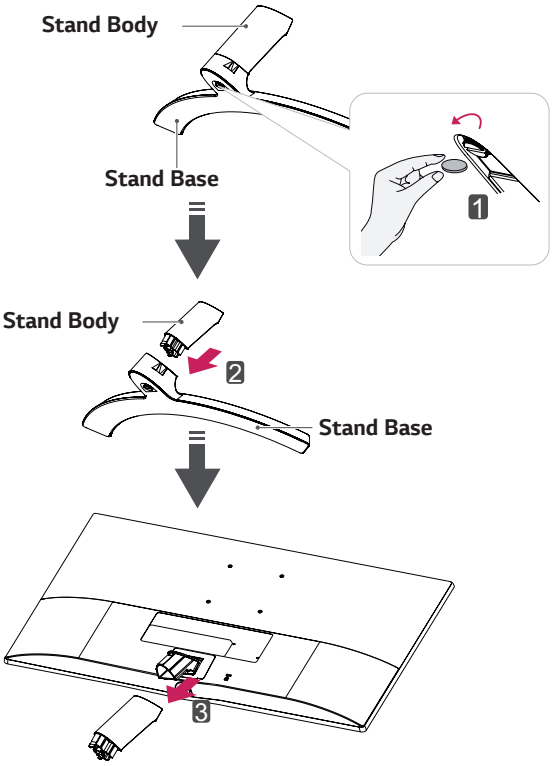
CAUTION

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

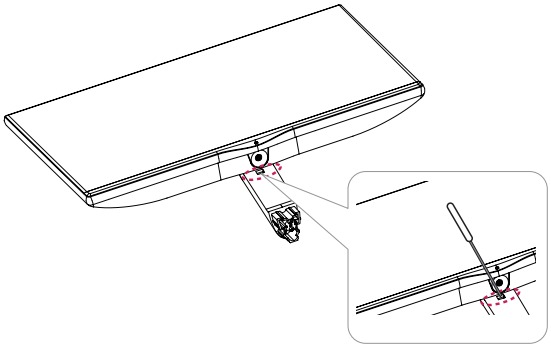


Detaching the Stand Base

1



* If it is difficult to remove, you can push the Latch with a small flat-head screw driver or a flat-headed tool and disassemble as shown below.



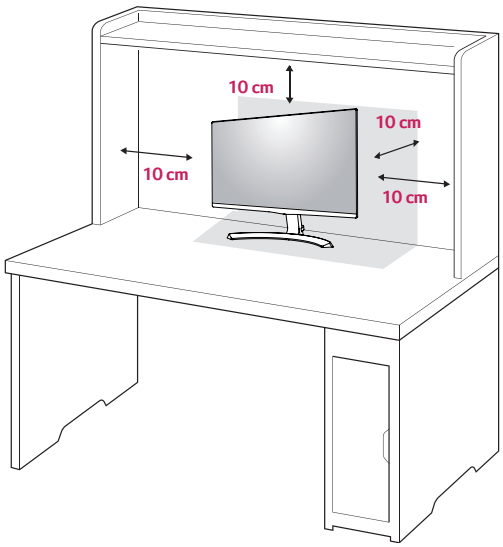
CAUTION

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

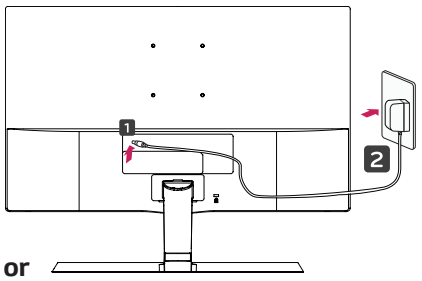
Mounting on a table

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

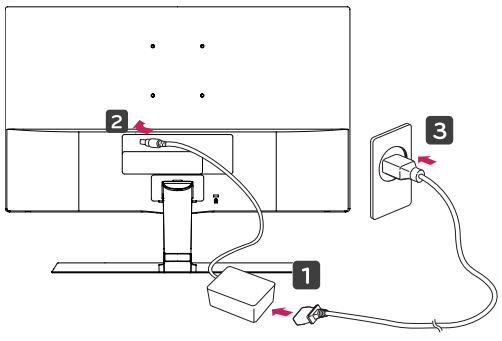
Leave a 10 cm (minimum) space from the wall for proper ventilation.



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



or

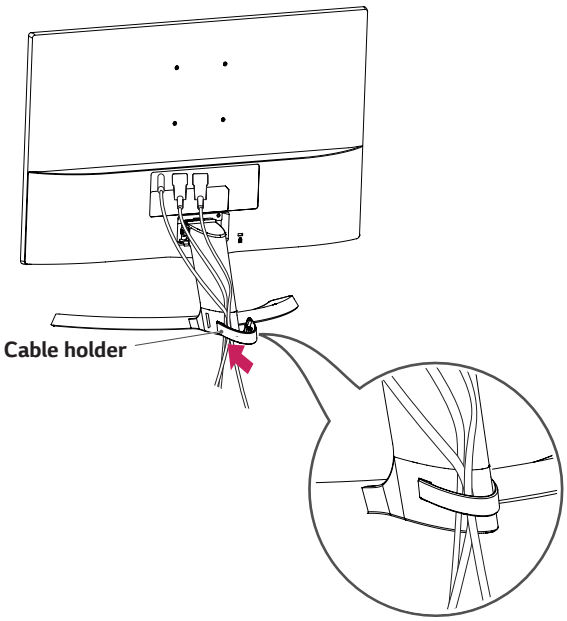


3 Press the joystick button on the bottom of the monitor to turn on the monitor.

CAUTION

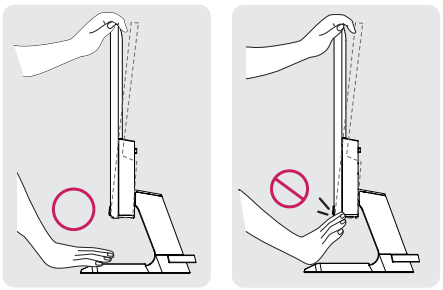
Unplug the power cord before moving the Monitor to another location. Otherwise electric shock may occur.

Using the cable holder

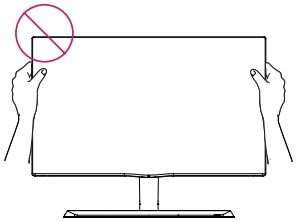


WARNING

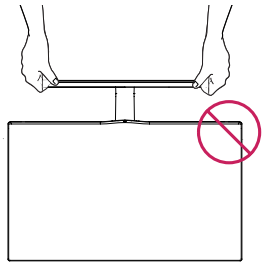
When you adjust the angle, do not hold the bottom of the Monitor set frame as shown on the following illustration, as may injure your fingers.



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

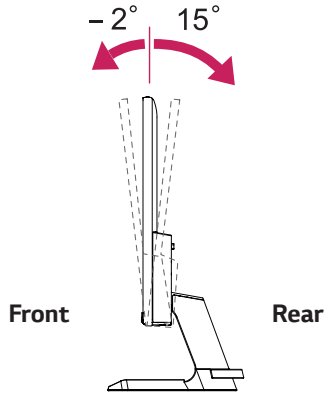


Do not hold this set like below picture.Monitor screen can detach from stand base and injure your body.



NOTE

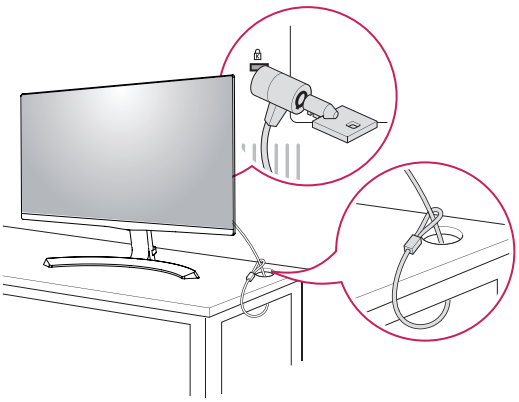
Tilt from +15 to -2 degrees up or down to adjust the angle of the Monitor set to suit your view.



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.

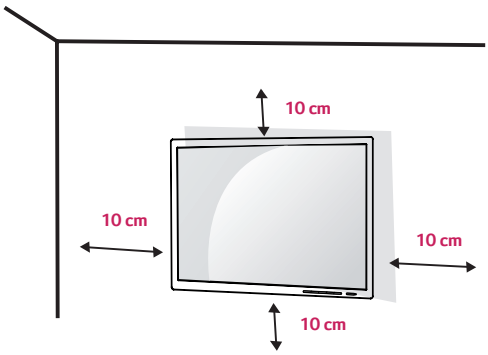


NOTE

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

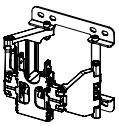
Installing to a wall

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

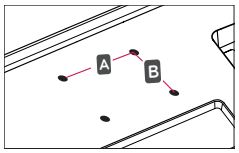


To install the monitor to a wall, attach a wall mounting bracket (optional) to the back of the monitor.
Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

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

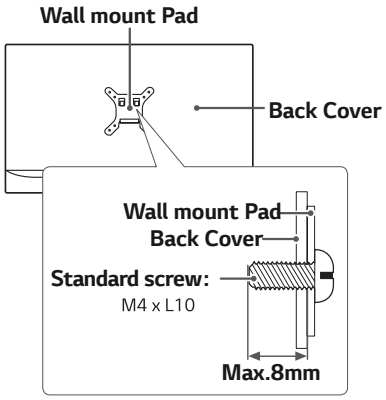
Model	22MP68VQ 23MP68VQ 24MP68VQ	27MP68VQ
Wall Mount (A x B)	75 x 75	100 x 100
Standard screw	M4 x L10	
Number of screws	4	
Wall Mount Plate (Optional)	LSW140B 	

- Wall Mount (A x B)



CAUTION

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



NOTE

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

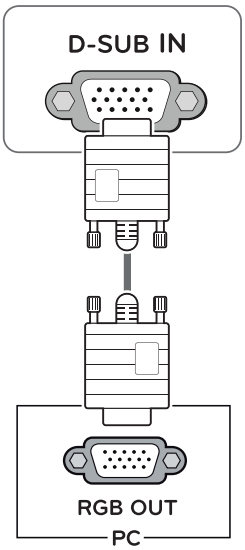
USING THE MONITOR SET

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.

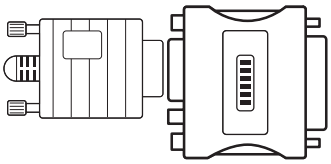
D-SUB connection

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.



NOTE

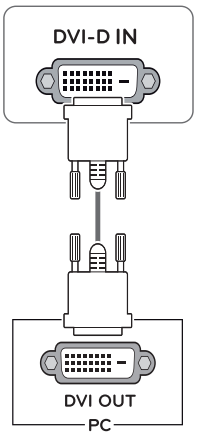
- When using a D-Sub signal input cable connector for Macintosh



- **Mac adapter**
  For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-SUB VGA connector on the supplied cable to a 15 pin 2 row connector.

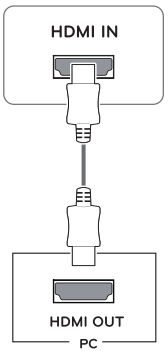
DVI-D connection

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

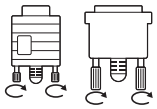
Transmits the digital video and audio signals from your PC to the Monitor set. Connect the PC and the Monitor set with the HDMI cable as shown in the following illustrations.



NOTE

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

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.

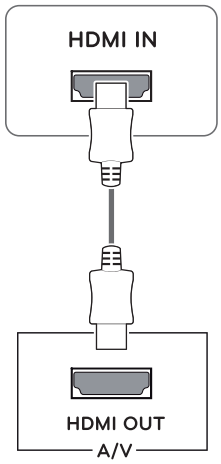
NOTE

- 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.



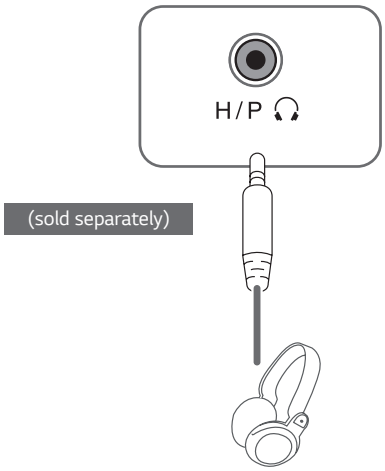
NOTE

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

Connecting to External Devices

Peripheral device connection

Connect peripheral devices to the monitor using headphone ports.



NOTE

- Peripheral devices are sold separately.
- Cables with angled plugs may have clearance issues, use straight plugs when possible.



Angle Type



Straight Type

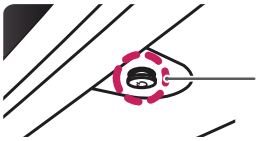
NOTE

- Headphones or speakers may not work normally, depending on the server PC settings.

CUSTOMIZING SETTINGS

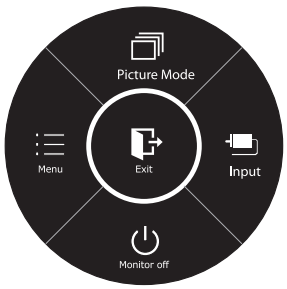
Activating the Main Menu

1 Press the joystick button on the bottom of the monitor.
2 Move the joystick up/down (▲/▼) and left/right(◀/▶) to set the options.
3 Press the joystick button once more to exit the main menu.



Button	Menu Status		Description
	**Main menu disabled**		Enables the main menu.
	Main menu enabled		Exits the main menu. (Holding down the button to turn off the monitor. You can turn off the monitor this way at any time, including when the OSD is on.)
	◀	**Main menu disabled**	Adjusts the monitor volume level.
		Main menu enabled	Enters the menu features.
	▶	**Main menu disabled**	Adjusts the monitor volume level.
		Main menu enabled	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



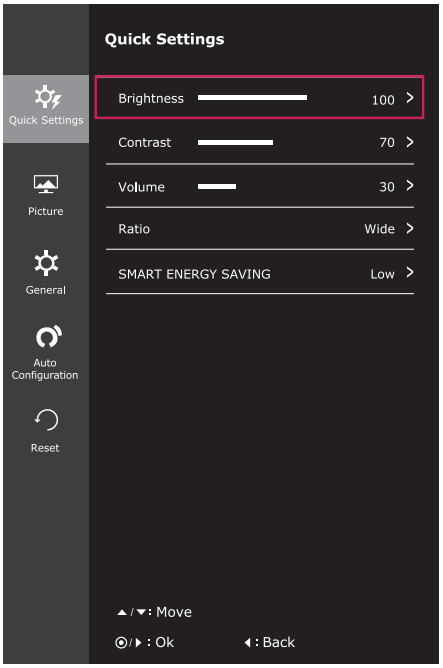
Main Menu	Description
Menu	Configures the screen settings.
Picture Mode	Select picture mode to achieve the best display effect.
Input	You can operate the change of input signals. • When two input signals over are connected and select the input menu, input signal(D-SUB/DVI-D/HDMI) will be changed sequentially. • When only one signal is connected, it is automatically detected. The default setting is D-SUB.
Monitor off	Turns off the monitor.
Exit	Exits the main menu.

Customizing settings

Menu Settings

-Quick Settings

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



Each option is described below.

Menu > Quick Settings	Description	
Brightness	Adjusts the color contrast and brightness of the screen.	
Contrast		
Volume	Adjusts the volume.	
	NOTE • You can adjust Mute/ Unmute by moving the joystick button to ▼ in the Volume menu.	
Ratio	Adjusts the screen ratio.	
	Wide	Displays the video in wide-screen, regardless of the video signal input.
	Original	Displays a video according to the input video signal aspect ratio.
SMART ENERGY SAVING	**High**	Enables SMART ENERGY SAVING you can save energy with this energy- high efficient function.
	Low	Enables SMART ENERGY SAVING you can save energy with this energy- low efficient function.
	Off	Disables SMART ENERGY SAVING .

*** SMART ENERGY SAVING : Conserve energy by using luminance compensation algorithm.**

NOTE

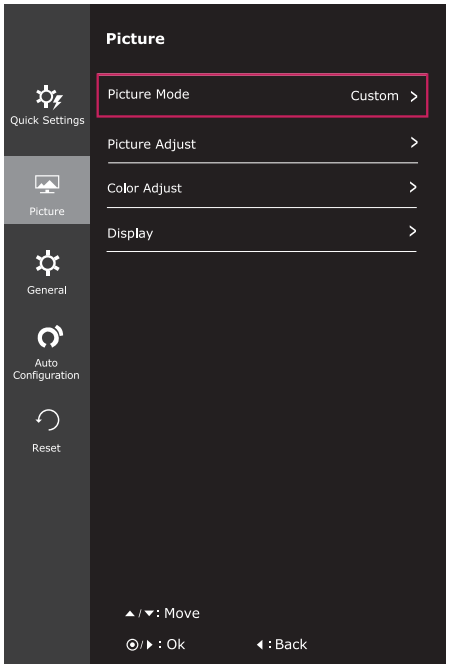
- The display may look the same for Wide, Original options at the recommended resolution (1920 x 1080).
- The ratio is disabled in the interlaced signal.

NOTE

- 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.

-Picture

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



Each option is described below.

Menu > Picture	Description	
Picture Mode	**Custom**	Allows the user to adjust each element. The color mode of the main menu can be adjusted.
	Reader 1	It is a mode that the screen is adjusted to the best for the newspaper. If you want screen more bright, you can control brightness in Menu OSD.
	Reader 2	It is a mode that the screen is adjusted to the best for the cartoon. If you want screen more bright, you can control brightness in Menu OSD.
	Photo	Optimizes the screen to view photos.
	Cinema	Optimizes the screen to improve the visual effects of a video.
	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.
	Game	Optimizes the screen for gameplay.

NOTE

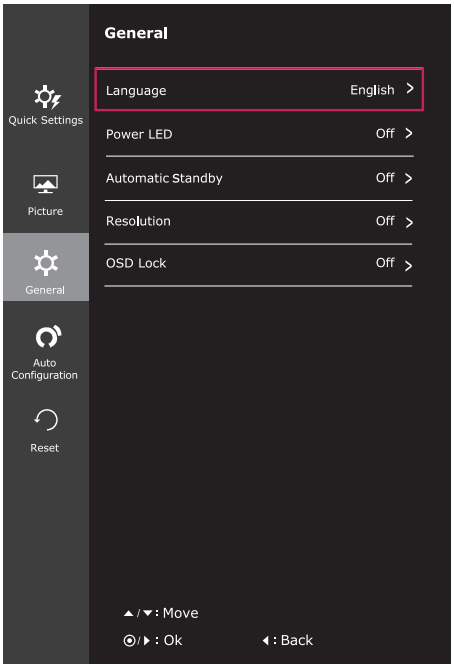
- This is subsidiary for color weakness user. Therefore if you feel uncomfortable with the screen, please turn off this function.
- This function can't distinguish some colors in some images.

Picture Adjust	**SUPER RESOLUTION+**	**High**	Optimized picture quality is displayed when a user wants crystal clear images. It is effective forhigh quality video or game.
		Middle	The optimized picture quality is displayed when a user wants images between low and highmodes 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 iseffective for slow-moving pictures or still images.
		Off	Select this option for everyday viewing. SUPER RESOLUTION+ is turned off in this mode.
	Sharpness	Adjusts the sharpness of the screen.	
	Black Level	Sets the offset level (for HDMI only). • **Offset:** as a reference for a video signal, this is the darkest color the monitor can display.	
		High	Keeps the current contrast ratio of the screen.
		Low	Lowers the black levels and raises the white levels from the current contrast ratio of the screen.
	Response Time	Sets a response time for displayed pictures based on the speed of the screen. For a normal environment, it is recommended that you use Normal. For a fast-moving picture, it is recommended that you use High. Setting to High may cause image sticking.	
		High	Sets the response time to High.
		Middle	Sets the response time to Middle.
		Low	Sets the response time to Low.
		Off	Sets the response time to Off.
	Over Scan	**On**	To select the range of output image for DTV timing in HDMI input.(only for HDMI input)Recommend overscan function to turn on when connect AV equipment.
		Off	Disables the **Over Scan** feature.
	DFC	**On**	Adjusts the brightness automatically according to the screen.
		Off	Disables the **DFC** 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.	
	FreeSync	Provides seamless and natural images by synchronizing the vertical frequency of the input signal with that of the output signal. **NOTE** • To use the FreeSync feature, a graphic card that supports FreeSync is necessary. • Supported Interface: HDMI • For more information, refer to AMD website at http://www.amd.com/FreeSync	
		On	FreeSync function on.
		Off	FreeSync function off.

Color Adjust	**Gamma**	The higher the gamma value, the darker the image becomes. Likewise, the lower the gamma value, the lighter the image becomes. If you do not need to adjust the gamma settings, select Off.	
	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	
		Red **Green** **Blue**	You can customize the picture color using Red, Green, and Blue colors.
	Six Color	Meets the user requirements for colors through adjusting the color and saturation of the six colors(Red_Hue, Red_Saturation, Green_Hue, Green_Saturation, Blue_Hue, Blue_Saturation, Cyan_Hue, Cyan_Saturation, Magenta_Hue, Magenta_Saturation, Yellow_Hue, Yellow_Saturation) and saving the settings.	
		*Hue: Adjusts tone of the screen. *Saturation: Adjusts the saturation of the screen colors. The lower the value, less saturated and bright the colors become. The higher the value, the more saturated and dark the colors become.	
	Reset	Returns the color settings to the default settings.	
Display	**Horizontal**	To move image left and right.	
	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 and clear or sharpen the image of characters.	

-General

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

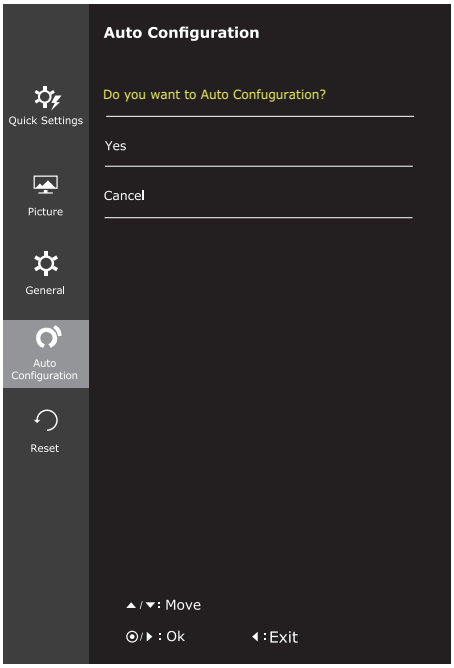


Each option is described below.

Menu > General	Description	
Language	To choose the language in which the control names are displayed.	
Power LED	Turns the power indicator on the front side of the monitor on/off.	
	On	The power indicator is automatically turned on.
	Off	The power indicator is turned off.
Automatic Standby	The monitor will automatically switch to standby mode after a certain period.	
Resolution	User can set the desired resolution.This option is enabled only when the screen resolution on your computer is set to the following(D-SUB only).	
	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,Off	
	1280x960, 1600x900,Off	
	1440x900, 1600x900,Off	
OSD Lock	Prevents incorrect key input.	
	On	Key input is disabled.
	NOTE All functions except for the OSD Lock mode and the Exit button for Brightness, Contrast, Volume, Input, and General are disabled.	
	Off	Key input is enabled.

-Auto Configuration

1. To view the **OSD menu**, press the **joystick button** at the bottom of the monitor and then enter the **Menu**.
2. Go to **Auto Configuration** 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.

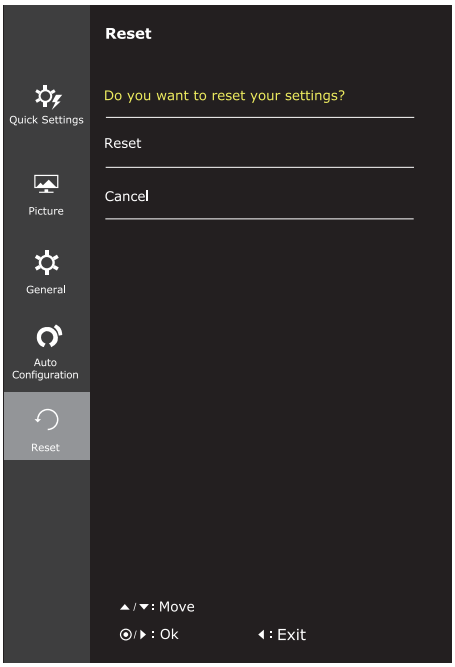
Menu > Auto Configuration	Description
Do you want to Auto Confuguration?	
Yes	Operate the Auto configuration for optimal display in D-SUB.
Cancel	Cancel the select.

NOTE

- This function will be enable only in analog input.

-Reset

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



Each option is described below.

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

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?	• After the monitor is on "NO SIGNAL", the monitor goes to DPM mode. • 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 OSD?	• You can unlock the OSD controls at any time by entering the 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).

CAUTION

- 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 the display driver CD (or diskette) that comes with your display. Or, you can also download the driver from our web site: http://www.lg.com. • Make sure to check if the video card supports Plug&Play function.

The screen is flickering.	
Did you select the recommended resolution?	• If the selected resolution is HDMI **1080i** 60/50 Hz, the screen may be flickering. Change the resolution to the recommended resolution **1080P**.

SPECIFICATIONS

22MP68VQ

Display	**Screen Type**	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.24795 mm x 0.24795 mm (Pixel Pitch)
Sync Input	**Horizontal Frequency**	30 kHz to 85 kHz (HDMI)(FreeSync on) 30 kHz to 83 kHz (HDMI)(FreeSync off) 30 kHz to 83 kHz (D-SUB) 30 kHz to 83 kHz (DVI)
	Vertical Frequency	40 Hz to 75 Hz (HDMI)(FreeSync on) 56 Hz to 75 Hz (HDMI)(FreeSync off) 56 Hz to 75 Hz (D-SUB) 56 Hz to 75 Hz (DVI)
	Input Form	Separate Sync. Digital
Video Input	**Signal Input**	15 pin D-SUB Connector/DVI-D Connector (Digital) HDMI Connector
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm),Digital
Resolution	**Max**	1920 x 1080 @ 75 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Plug & Play	DDC 2B(Analog,Digital,HDMI)	
Power Consumption	On Mode : 13.7 W Typ. (ENERGY STAR® standard) * 17.6 W Typ. (Outgoing condition) ** Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V ⎓ 1.3 A	
AC-DC Adapter	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 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 or Type LCAP51, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type PA-1021-23, manufactured by Lite-On Technology Corporation	
	OUTPUT: 19 V ⎓ 1.3 A	
Dimensions (Width x Height x Depth)	**With Stand**	491.2 mm x 387.7 mm x 186.8 mm
	Without Stand	491.2 mm x 293.3 mm x 91.7 mm
Weight	2.8 kg	
Environmental conditions	**Operating Temperature** **Operating Humidity**	0 °C to 40 °C Less than 80%
	Storage Temperature **Storage Humidity**	-20 °C to 60 °C Less than 85 %

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 ENERGY STAR® test standard.
** The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution)

SPECIFICATIONS

23MP68VQ

Display	**Screen Type**	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.2652 mm x 0.2652 mm (Pixel Pitch)
Sync Input	**Horizontal Frequency**	30 kHz to 85 kHz (HDMI)(FreeSync on) 30 kHz to 83 kHz (HDMI)(FreeSync off) 30 kHz to 83 kHz (D-SUB) 30 kHz to 83 kHz (DVI)
	Vertical Frequency	40 Hz to 75 Hz (HDMI)(FreeSync on) 56 Hz to 75 Hz (HDMI)(FreeSync off) 56 Hz to 75 Hz (D-SUB) 56 Hz to 75 Hz (DVI)
	Input Form	Separate Sync. Digital
Video Input	**Signal Input**	15 pin D-SUB Connector/DVI-D Connector (Digital) HDMI Connector
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm),Digital
Resolution	**Max**	1920 x 1080 @ 75 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Plug & Play	DDC 2B(Analog,Digital,HDMI)	
Power Consumption	On Mode : 13.9 W Typ. (ENERGY STAR® standard) * 19.1 W Typ. (Outgoing condition) ** Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V ⎓ 1.3 A	
AC-DC Adapter	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 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 or Type LCAP51, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type PA-1021-23, manufactured by Lite-On Technology Corporation	
	OUTPUT: 19 V ⎓ 1.3 A	
Dimensions (Width x Height x Depth)	**With Stand**	523.9 mm x 406.1 mm x 186.8 mm
	Without Stand	523.9 mm x 311.7 mm x 91.7 mm
Weight	3.1 kg	
Environmental conditions	**Operating Temperature** **Operating Humidity**	0 °C to 40 °C Less than 80%
	Storage Temperature **Storage Humidity**	-20 °C to 60 °C Less than 85 %

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 ENERGY STAR® test standard.
** The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution)

SPECIFICATIONS

24MP68VQ

Display	**Screen Type**	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.2745 mm x 0.2745 mm (Pixel Pitch)
Sync Input	**Horizontal Frequency**	30 kHz to 85 kHz (HDMI)(FreeSync on) 30 kHz to 83 kHz (HDMI)(FreeSync off) 30 kHz to 83 kHz (D-SUB) 30 kHz to 83 kHz (DVI)
	Vertical Frequency	40 Hz to 75 Hz (HDMI)(FreeSync on) 56 Hz to 75 Hz (HDMI)(FreeSync off) 56 Hz to 75 Hz (D-SUB) 56 Hz to 75 Hz (DVI)
	Input Form	Separate Sync. Digital
Video Input	**Signal Input**	15 pin D-SUB Connector/DVI-D Connector (Digital) HDMI Connector
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm),Digital
Resolution	**Max**	1920 x 1080 @ 75 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Plug & Play	DDC 2B(Analog,Digital,HDMI)	
Power Consumption	On Mode : 17.1W Typ. (ENERGY STAR® standard) * 21 W Typ. (Outgoing condition) ** Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V ⎓ 1.3 A	
AC-DC Adapter	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 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 or Type LCAP51, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type PA-1021-23, manufactured by Lite-On Technology Corporation	
	OUTPUT: 19 V ⎓ 1.3 A	
Dimensions (Width x Height x Depth)	**With Stand**	541.7 mm x 416.2 mm x 186.8 mm
	Without Stand	541.7 mm x 321.8 mm x 91.9 mm
Weight	3.3 kg	
Environmental conditions	**Operating Temperature** **Operating Humidity**	0 °C to 40 °C Less than 80%
	Storage Temperature **Storage Humidity**	-20 °C to 60 °C Less than 85 %

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 ENERGY STAR® test standard.
** The On mode power consumption is measured with LGE test standard (Full White pattern , Maximum resolution)

SPECIFICATIONS

27MP68VQ

Display	**Screen Type**	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.3114 mm x 0.3114 mm (Pixel Pitch)
Sync Input	**Horizontal Frequency**	30 kHz to 85 kHz (HDMI)(FreeSync on) 30 kHz to 83 kHz (HDMI)(FreeSync off) 30 kHz to 83 kHz (D-SUB) 30 kHz to 83 kHz (DVI)
	Vertical Frequency	40 Hz to 75 Hz (HDMI)(FreeSync on) 56 Hz to 75 Hz (HDMI)(FreeSync off) 56 Hz to 75 Hz (D-SUB) 56 Hz to 75 Hz (DVI)
	Input Form	Separate Sync. Digital
Video Input	**Signal Input**	15 pin D-SUB Connector/DVI-D Connector (Digital) HDMI Connector
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm),Digital
Resolution	**Max**	1920 x 1080 @ 75 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Plug & Play	DDC 2B(Analog,Digital,HDMI)	
Power Consumption	On Mode : 20.3 W Typ. (ENERGY STAR® standard) * 26 W Typ. (Outgoing condition) ** Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V ⎓ 1.6 A	
AC-DC Adapter	Type ADS-40SG-19-3 19032G, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19032GPG-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19032GPBR-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19032GPI-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19032GPCU-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-32FSG-19 19032EPCU-1L, manufactured by SHENZHEN HONOR ELECTRONIC or Type LCAP21A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26A-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26A-E, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26A-I, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26A-B, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP51A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type PA-1031-23, manufactured by Lite-On Technology Corporation	
	OUTPUT: 19 V ⎓ 1.7 A	
Dimensions (Width x Height x Depth)	**With Stand**	613.8 mm x 457.4 mm x 204.6 mm
	Without Stand	613.8 mm x 363.0 mm x 92.0 mm
Weight	5.0 kg	
Environmental conditions	**Operating Temperature** **Operating Humidity**	0 °C to 40 °C Less than 80%
	Storage Temperature **Storage Humidity**	-20 °C to 60 °C Less than 85 %

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 ENERGY STAR® test standard.
** 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
1920 x 1080	83.89	75	+/+	FreeSync on

HDMI Timing(Video)

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

Indicator

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

LG
Life's Good

Make sure to read the Safety Precautions before using the product.
Keep the Owner's Manual (CD) in an accessible place for future reference.
The model and serial number of the SET is located on the back and one side of the SET. Record it below should you ever need service.

MODEL _____

SERIAL _____

ENERGY STAR

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

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

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