

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

19M38A	20M38A	22M38A	24M38A	27MP38VQ
19M38D	20M38D	22M38D	24M38D	27MP38HQ
19M38H	20M38H	22M38H	24M38H	
19M38AB	19M38HB			

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19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ

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.

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



CAUTION

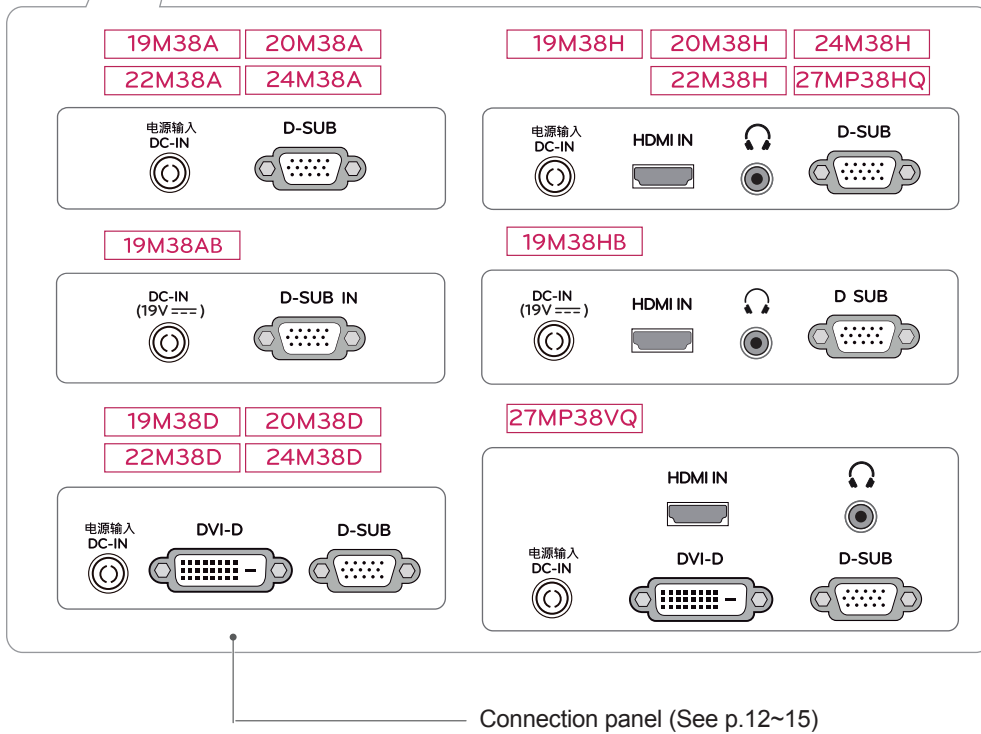
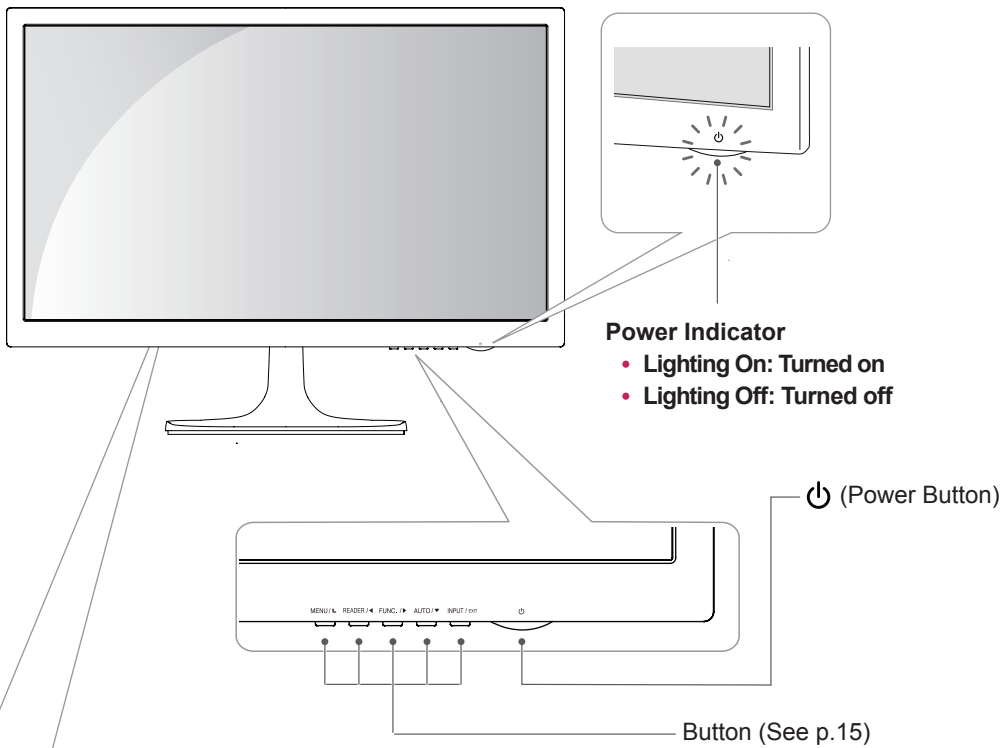
- Always use genuine LG components to ensure safety and product performance.
- The product warranty will not cover damage or injury caused by the use of unauthorized components.
- It is recommended that use the supplied components.
- If you use generic cables not certified by LG, the screen may not display or there may be image noises.
- 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

- 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.

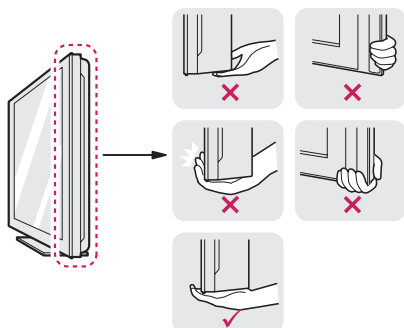
Parts and buttons



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.

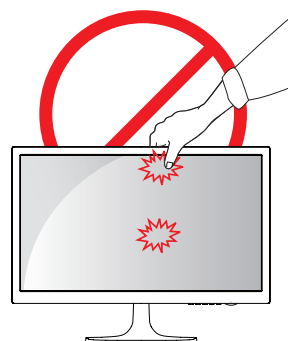


- When moving the monitor, avoid any strong shock or vibrations to the product.
- When moving the monitor, keep it upright, never turn the monitor on its side or tilt it sideways.



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.



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.

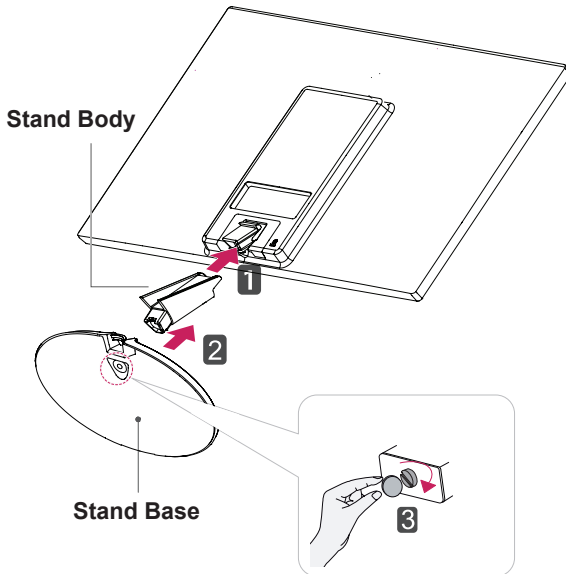


CAUTION

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

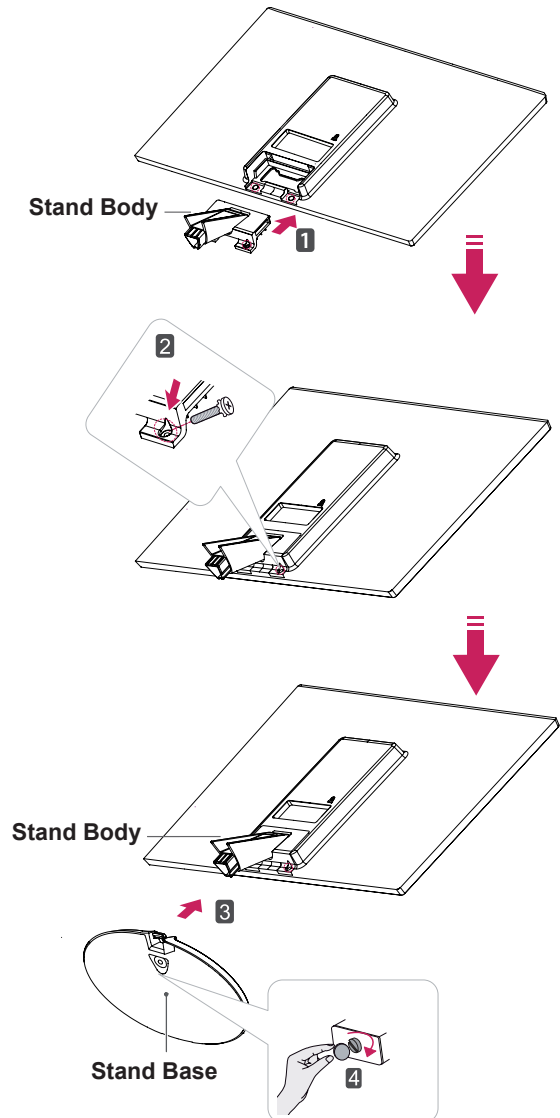
2	19M38A	20M38A	22M38A	24M38A
	19M38D	20M38D	22M38D	24M38D
	19M38H	20M38H	22M38H	24M38H
	19M38AB	19M38HB		

- 1 Attach the **Stand Body** to the monitor set.
- 2 Attach the **Stand Base**.
- 3 Tighten the screw to the right with a coin.



27MP38VQ 27MP38HQ

- 1 Attach the **Stand Body** to the monitor set.
- 2 Use two screws to fix the **Stand Body** and monitor set.
- 3 Attach the **Stand Base**.
- 4 Tighten the screw to the right with a coin.



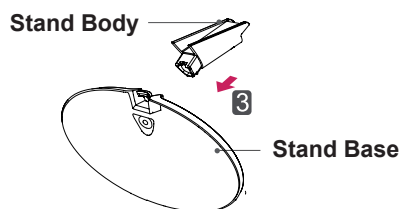
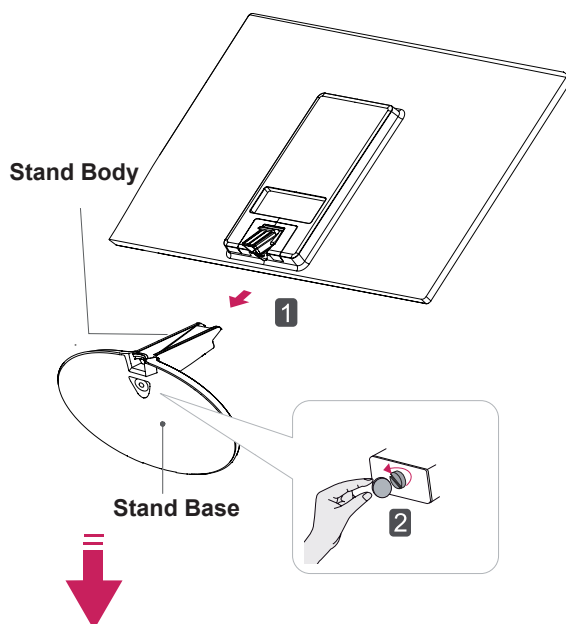
Detaching the Stand Base

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

- 2

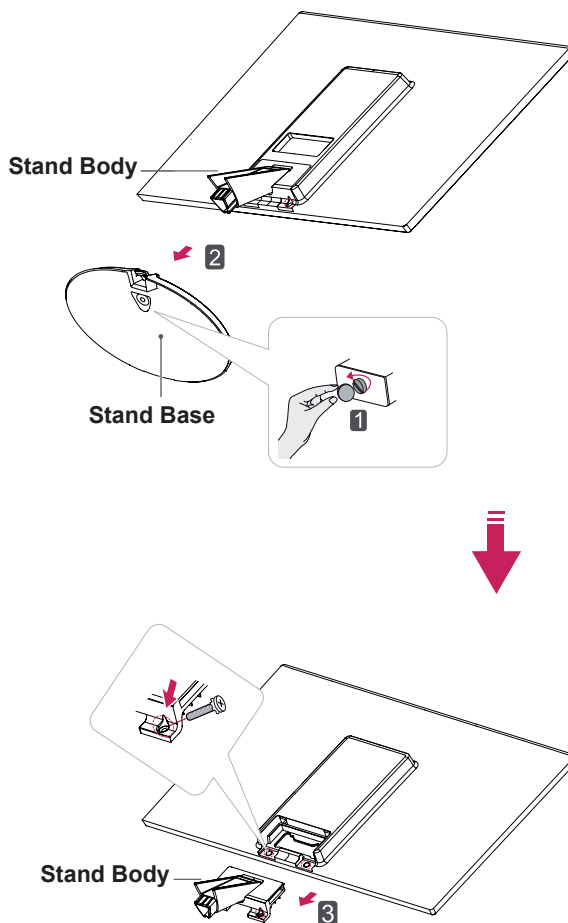
19M38A	20M38A	22M38A	24M38A
19M38D	20M38D	22M38D	24M38D
19M38H	20M38H	22M38H	24M38H
19M38AB	19M38HB		

- 1 Pull out the **Stand Body** and **Stand Base** from the monitor set.
- 2 Turn the screw to the left with a coin.
- 3 Pull out the **Stand Base**.



27MP38VQ 27MP38HQ

- 1 Turn the screw to the left with a coin.
- 2 Pull out the **Stand Base** from the **Stand Body**.
- 3 Remove two screws and pull out the **Stand Body** from the monitor set.



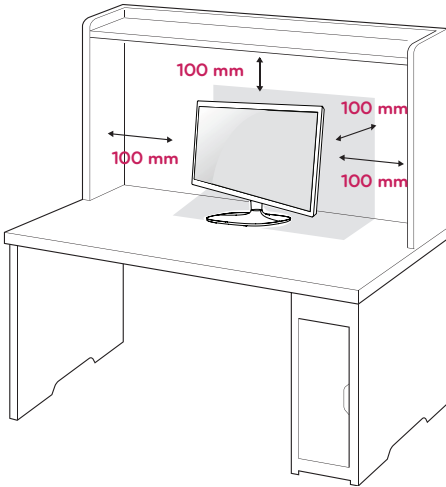
CAUTION

- This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.
- Do not carry the product upside down holding only the stand base. The product may fall and get damaged or injure your foot.

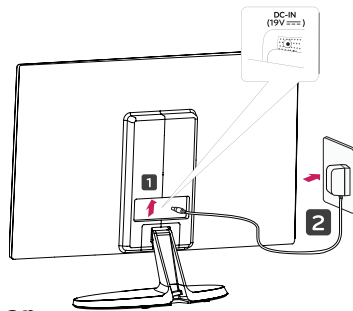
Mounting on a table

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

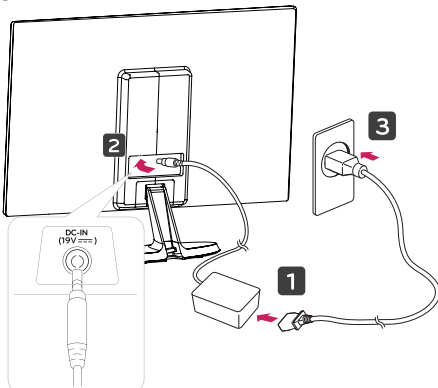
Leave a 100 mm (minimum) space from the wall for proper ventilation.



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



or



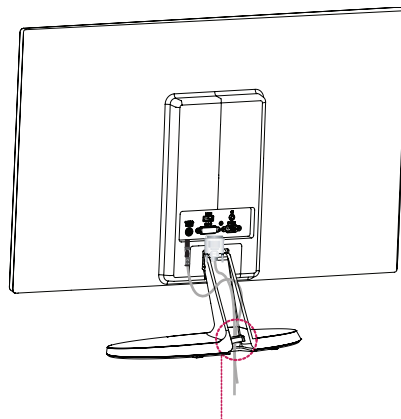
- 3 Press  (Power) button on the bottom switch panel to turn the power on.



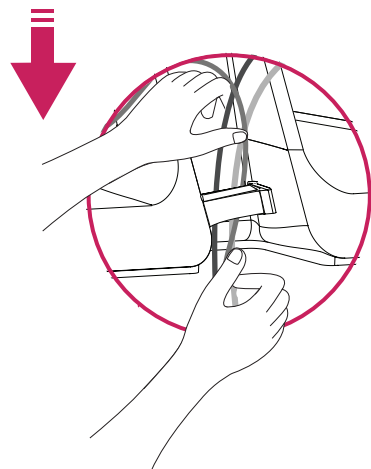
CAUTION

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

Using the cable holder

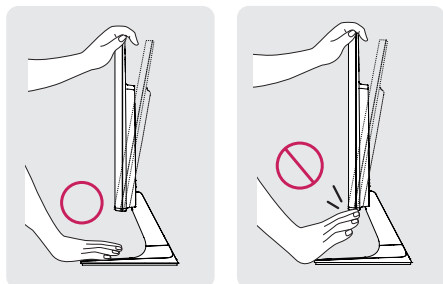


Cable holder

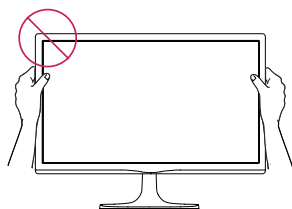


! WARNING

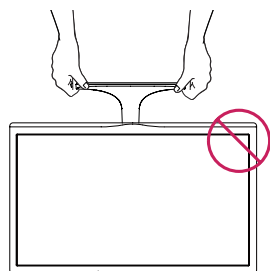
When you adjust the angle, do not hold the bottom of the Monitor set frame as shown on the following illustration, as may injure your fingers.



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 +20 to -5 degrees up or down to adjust the angle of the Monitor set to suit your view.



Front

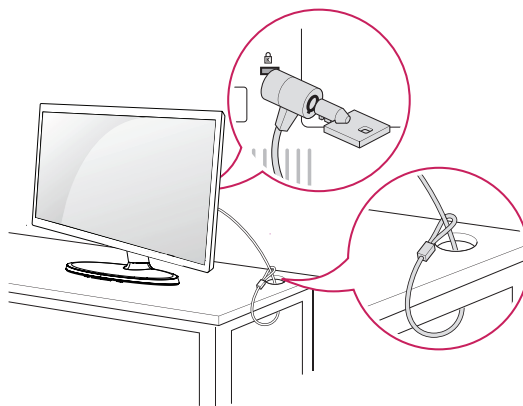


Rear

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>.

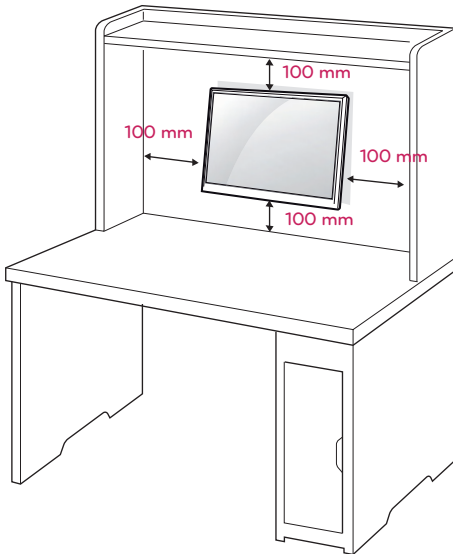
Connect the Kensington security system cable between the Monitor set and a table.

**! 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 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.

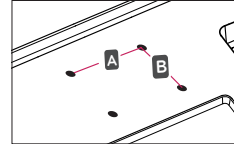


If you intend to mount the Monitor set to a wall, attach Wall mounting interface (optional parts) to the back of the set.

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.

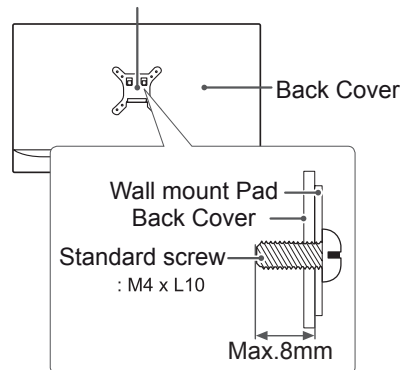
• Wall Mount (A x B)



CAUTION

- 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.

Wall mount Pad



Model	19M38A	20M38A	22M38A
	19M38D	20M38D	22M38D
	19M38H	20M38H	22M38H
Wall Mount (A x B)	75 x 75		
Standard screw	M4		
Number of screws	4		

Model	19M38AB	19M38HB
	24M38A	27MP38VQ
	24M38D	27MP38HQ
Wall Mount (A x B)	100 x 100	
Standard screw	M4	
Number of screws	4	



NOTE

- 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.

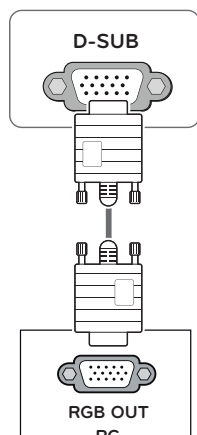
USING THE MONITOR SET

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.

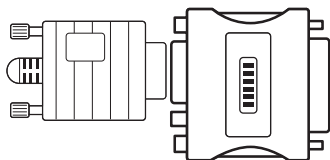
D-SUB connection

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.



NOTE

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



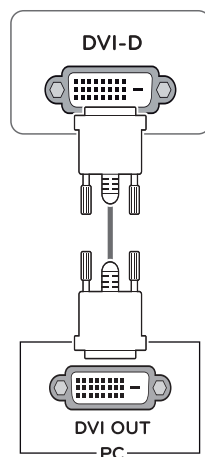
Mac adapter

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

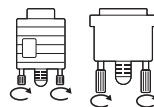
Transmits a digital video signal from your PC to the Monitor set. Connect the PC and the Monitor set with a DVI cable as shown in the following illustrations.

19M38D	20M38D	22M38D
24M38D	27MP38VQ	



CAUTION

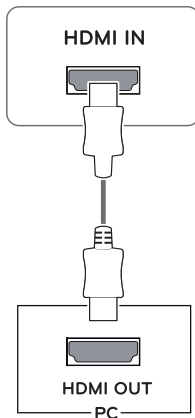
- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.



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.

19M38HB	19M38H	20M38H
22M38H	24M38H	27MP38VQ
27MP38HQ		



! 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^{®/TM} Cable
 - High-Speed HDMI^{®/TM} Cable with Ethernet

! NOTE

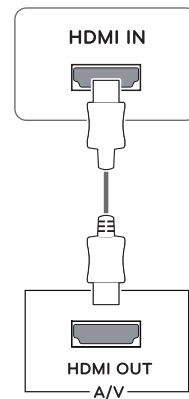
- When you want to use two PC in our Monitor, please connect the signal cable(D-SUB/ DVI-D/HDMI) respectively in Monitor set.
- If you turn the Monitor set on while it is cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.

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.

19M38HB	19M38H	20M38H
22M38H	24M38H	27MP38VQ
27MP38HQ		



! NOTE

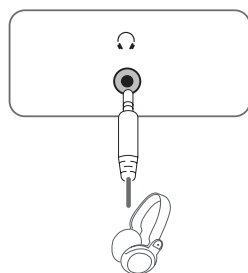
- If you use HDMI PC, it can cause compatibility problem.
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- Recommended HDMI cable types
 - High-Speed HDMI^{®/TM} Cable
 - High-Speed HDMI^{®/TM}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

Connecting to External Devices

Peripheral device connection

Connect peripheral devices to the monitor using headphone ports.

19M38HB	19M38H	20M38H
22M38H	24M38H	27MP38VQ
27MP38HQ		

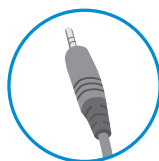


! NOTE

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



Angle Type



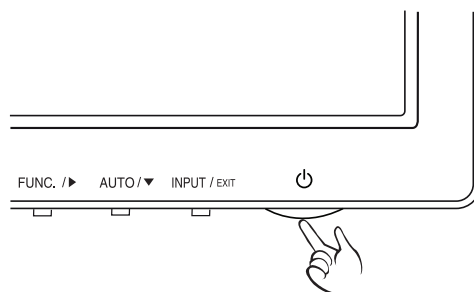
Straight Type

! NOTE

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

Self Image Setting Function

Press the power button on the bottom panel to turn the power on. When monitor power is turned on, the **"Self Image Setting"** Function is executed automatically. (Only supported in Analog Mode)

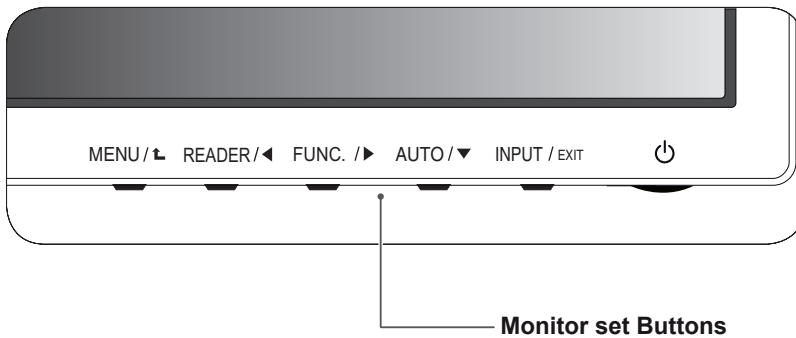


! NOTE

- "Self Image Setting" Function.**
This function provides the user with optimal display settings. When the user connects the monitor for the first time, this function automatically adjusts the display to optimal settings for individual input signals. (Only supported in Analog Mode)
- 'AUTO' Function.**
When you encounter problems such as blurry screen, blurred letters, screen flicker or tilted screen while using the device or after changing screen resolution, press the AUTO function button to improve resolution. (Only supported in Analog Mode)

CUSTOMIZING SETTINGS

- 1 Press the desired button on the bottom of the Monitor set.
- 2 Change the value of the menu item by pressing the buttons on the bottom of the Monitor set.
To return to the upper menu or set other menu items, use the up arrow (↑) button.
- 3 Select **EXIT** to leave the OSD menu.

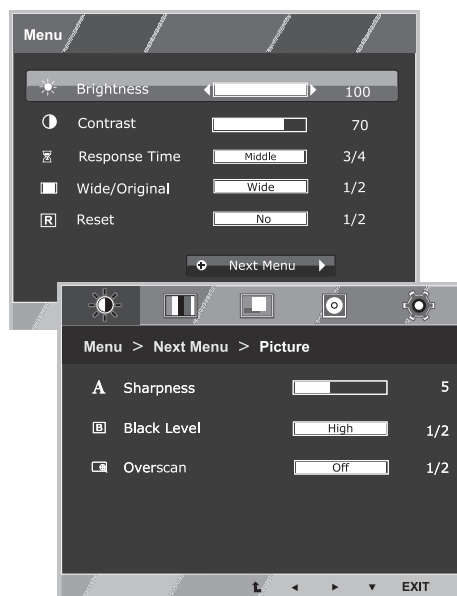


Button	Description
MENU / ↑	Accesses the main menus.(See p.16) OSD Locked/OSD Unlocked This function allow you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button for several seconds. Then OSD of "OSD Lock" will appear. After that, user can select lock or unlock by pressing left/right button. If user selects the "Lock" icon by pressing the "OK" button, the message "OSD Locked" will appear. Otherwise, "OSD Unlocked" will appear. After selecting the "Lock", If you want to change to Unlock, you can push the "MENU" button for several seconds. The message "OSD Unlocked" will appear.
READER / ◀	Use this button to enter Reader Mode menu. Its function works to display screen as paper-like picture for Eye comfort.If you want to more information(See p.22).
FUNC. / ▶	Use this button to enter SMART ENERGY SAVING , Picture Mode,Color Weakness menus.(See p.23~26)
AUTO / ▼	When adjusting your display settings, always press the AUTO button on the MONITOR SETUP OSD. (Only supported in Analog Mode) The best display mode 19M38AB/19M38HB/19M38A/19M38D/19M38H: 1366 x 768 20M38A/20M38D/20M38H: 1600 x 900 22M38A/22M38D/22M38H/24M38A/24M38D/24M38H/27MP38HQ/ 27MP38VQ: 1920 x 1080
INPUT / EXIT	You can choose the input signal. • When two input signals are connected, you can select the input signal (D-SUB/DVI-D/ HDMI) you want. • When only one signal is connected, it is automatically detected. The default setting is D-SUB. EXIT EXIT the OSD(On Screen Display).
⏻ (Power Button)	Turns the power on or off. Power Indicator The power indicator stays white if the display is running properly (On Mode). If the display is in Sleep Mode, the power indicator blinks white.

Customizing Settings

Menu Settings

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 3 Select the "**Next Menu**" button to enter the more option settings.
- 4 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.



Each option is explained below.

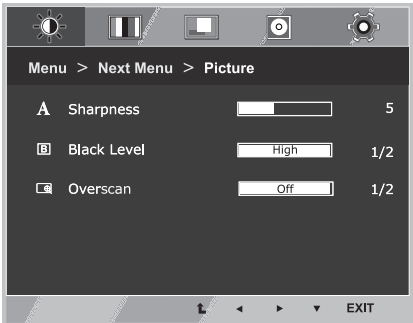
Menu	Analog	Digital	HDMI	Description
Brightness	•	•	•	To adjust the brightness, contrast of the screen.
Contrast	•	•	•	
Response Time 27MP38VQ 27MP38HQ	•	•	•	You can set a response time for displayed pictures based on the speed of the screen. For a normal environment, it is recommended that you use 'Off'. For a fast-moving picture, it is recommended that you use 'High'.
Wide/Original	•	•	•	Wide Switch to full screen mode according to input image signal.
				Original Change the input image signal ratio to original. * This function works only if input resolution is lower than Monitor set ratio (16:9).
Reset	•	•	•	Restore all factory default settings. Press the ◀ , ▶ buttons to reset immediately.

Menu > Next Menu		Analog	Digital	HDMI	Description
Picture	Sharpness	•	•	•	To adjust the clearness of the screen
	Black Level				To set offset level
	19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ			•	
	Overscan				
	19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ			•	To improve the clarity and stability of the screen
Color	Gamma	•	•	•	To customize the color of the screen
	Color Temp				
	Six Color				
	27MP38VQ 27MP38HQ				
Display	Color Reset	•	•	•	To customize the color of the screen
	27MP38VQ 27MP38HQ				
	Horizontal				
	Vertical				
Audio	Clock	•			To improve the clarity and stability of the screen
	Phase	•			
	Volume			•	To adjust the volume
	19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ				
Others	Language	•	•	•	To customize the screen status for a user's operating environment
	Power Indicator	•	•	•	
	Automatic Standby				
	19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ	•	•	•	
	Resolution	•			

- **Analog:** D-SUB(Analog signal) input.
- **Digital:** DVI-D(Digital signal) input.
- **HDMI:** HDMI(Digital signal) input.

Picture

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "**Next Menu**" button to enter the more option settings.
- 3 Enter to **Picture** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 5 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.

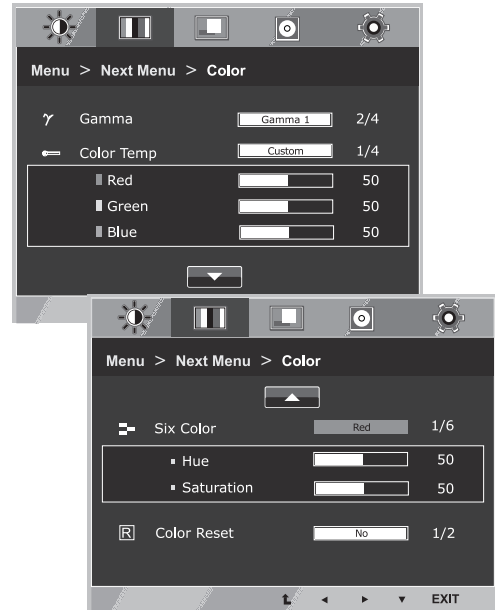


Each option is explained below.

Menu > Next Menu > Picture		Description	
Sharpness		To adjust the clearness 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.	
19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ		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.
Overscan		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.	
19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ			

Color

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu OSD**.
- 2 Select the "**Next Menu**" button to enter the more option settings.
- 3 Select **Color** by pressing the ► button.
- 4 Enter to **Color** by pressing the ▼ button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (▲) button.

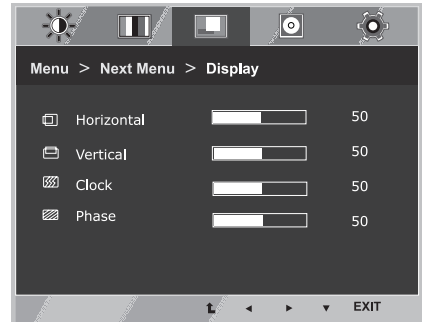


Each option is explained below.

Menu > Next Menu > Color	Description	
Gamma	Set your own gamma value. : Gamma 0, Gamma 1, Gamma 2, Off on the monitor, high gamma values display blackish images and low gamma values display whitish images. If user don't want adjusted gamma, user can select Gamma off.	
Color Temp	Custom	
	• Red: Set your own red color levels. • Green: Set your own green color levels. • Blue: Set your own blue color levels.	
	Select the screen color. Warm: Set the screen to warm color temperature (more red). Medium: Set the screen to medium color temperature. Cool: Set the screen to cool color temperature (more blue).	
Six Color 27MP38VQ 27MP38HQ	Sets and stores the hue and saturation for six colors(Red/Green/Blue/Cyan/Magenta/Yellow) to satisfy the color requirements of a user.	
	Hue	Adjusts the screen hue.
	Saturation	Adjusts the color sharpness on the screen. Lower values make the color sharpness weaker and colors lighter while higher values make the color sharpness stronger and colors dark.
Color Reset 27MP38VQ 27MP38HQ	Resets the color settings to the factory default settings for the current input device.	

Display

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "**Next Menu**" button to enter the more option settings.
- 3 Select **Display** by pressing the ► button.
- 4 Enter to **Display** by pressing the ▼ button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.



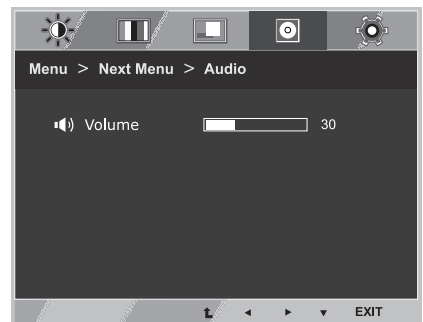
Each option is explained below.

Menu > Next Menu > Display	Description
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.

Audio

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- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "**Next Menu**" button to enter the more option settings.
- 3 Select **Audio** by pressing the ► button.
- 4 Enter to **Volume** by pressing the ▼ button.
- 5 Set the options by pressing the ◀ or ▶ buttons.
- 6 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.

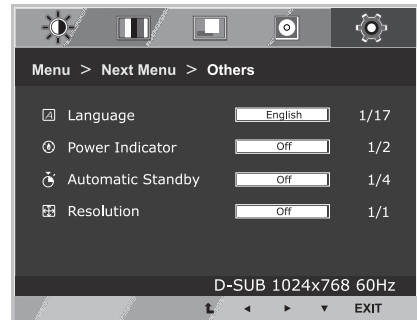


Each option is explained below.

Menu > Next Menu > Audio	Description
Volume	To adjust the volume of headphone/earphone.(Only for HDMI input)

Others

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu OSD**.
- 2 Select the "**Next Menu**" button to enter the more option settings.
- 3 Select **Others** by pressing the ► button.
- 4 Enter to **Others** by pressing the ▼ button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.
To return to the upper menu or set other menu items, use the up arrow (⬆) button.

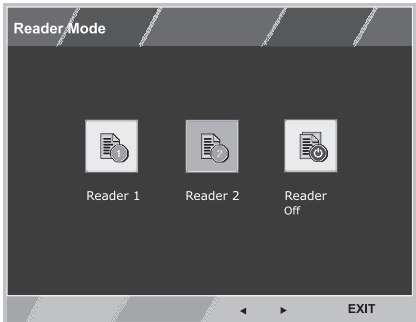


Each option is explained below.

Menu > Next Menu > Others	Description	
Language	To choose the language in which the control names are displayed.	
Power Indicator	Use this function to set the power indicator on the bottom side of the monitor to On or Off. If you set Off, it will go off. If you set On at any time, the power indicator will automatically be turned on.	
Automatic Standby 19M38H 19M38HB 20M38H 22M38H 24M38H 27MP38VQ 27MP38HQ	The monitor will automatically switch to standby mode after a certain period.	
Resolution	User can set the desired resolution. The function is enabled only when the screen resolution on your computer is set to the following, except that the PC output wrong resolution.	
	19M38A 19M38D 19M38H 19M38AB 19M38HB	Off, 1024x768, 1280x768, 1360x768, 1366x768
	20M38A 22M38A 24M38A 27MP38VQ 20M38D 22M38D 24M38D 27MP38HQ	Off, 1024x768, 1280x768, 1360x768, 1366x768
	20M38H 22M38H 24M38H	Off, 1280x960, 1600x900
		Off, 1440x900, 1600x900

READER Setting

- 1 Press **READER** button on the bottom of the Monitor set to display the **Reader Mode** OSD.
- 2 Set the options by pressing the ◀ or ▶ buttons.
- 3 Select **EXIT** to leave the OSD menu.



Each option is explained below.

Reader Mode	Description
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.
Reader Off	It is a mode that reader mode is off.

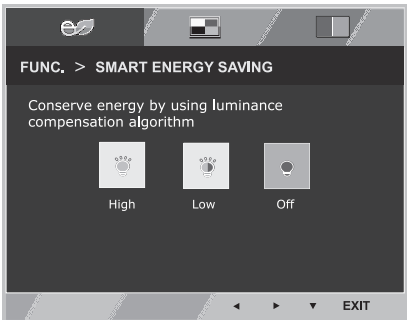
! NOTE

If option of Reader Mode is Reader 1 or Reader 2, Picture Mode will automatically be Custom and SMART ENERGY SAVING and Color Weakness will automatically be Off.

FUNC. Setting

SMART ENERGY SAVING

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Enter to **SMART ENERGY SAVING** by pressing the ▼ button.
- 3 Set the options by pressing the ◀ or ▶ buttons.
- 4 Select **EXIT** to leave the OSD menu.To return to the upper menu or set other menu items, use the up arrow (⬆) button.



Each option is explained below.

SMART ENERGY SAVING	Description
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.

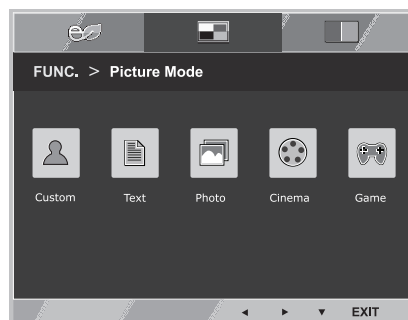
! NOTE

- 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.
- If option of SMART ENERGY SAVING is High or Low, Picture Mode will automatically be Custom and Reader Mode and Color Weakness will automatically be Off.

Picture Mode

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select **Picture Mode** by pressing the ► button.
- 3 Enter to **Picture Mode** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ buttons.
- 5 Select **EXIT** to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow(↑)button.

PC Mode



AV Mode

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24M38H 27MP38VQ 27MP38HQ



Each option is explained below.

Picture Mode	Description
Custom	It is a mode that the user can adjust each element. It can adjust the color mode of the Main Menu.
Text	It is a mode that the screen is adjusted to the best for the textworks.
Photo	It is a mode that the screen is adjusted to the best to view pictures.
Cinema	It is a mode that the screen is adjusted to the best to view the videos.
Game	It is a mode that the screen is adjusted to the best to play a game.

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Picture Mode	Description
Custom	It is a mode that the user can adjust each element. It can adjust the color mode of the Main Menu.
Vivid 1	Adjusts the video image for the retail environment by enhancing the contrast, brightness, Colour, and sharpness.
Vivid 2	
Standard	Adjusts the image for the normal environment.
Cinema	It is a mode that the screen is adjusted to the best to view the videos.

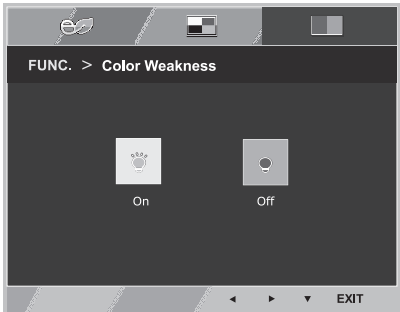


NOTE

If option of Picture Mode is non-Custom , Reader Mode, SMART ENERGY SAVING and Color Weakness will automatically be Off.

Color Weakness

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select **Color Weakness** by pressing the ► button.
- 3 Enter to **Color Weakness** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ► buttons.
- 5 Select **EXIT** to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow (⬆) button.



Each option is explained below.

Color Weakness	Description
On	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.
Off	It is a mode that Color Weakness mode is off.

! 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.
- If option of Color Weakness is not Off , Reader Mode and SMART ENERGY SAVING will be Off and Picture Mode will automatically be Custom.

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.

Do you see a "OSD LOCKED" message on the screen?	
Do you see "OSD LOCKED" when you push MENU button?	You can secure the current control settings, so that they cannot be inadvertently changed. You can unlock the OSD controls at any time by pushing the MENU button for several seconds: the message "OSD UNLOCKED" will appear.

Display image is incorrect	
Display Position is incorrect.	Press the AUTO button to automatically adjust your display image to the ideal setting.
On the screen background, vertical bars or stripes are visible.	Press the AUTO button to automatically adjust your display image to the ideal setting.
Any horizontal noise appearing in any image or characters are not clearly portrayed.	- Press the AUTO button 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 our web site: <http://www.lg.com>.
- Make sure to check if the video card supports Plug&Play function.

SPECIFICATIONS

19M38HB

Display	Screen Type	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.3 mm x 0.3 mm (Pixel Pitch)
Resolution	Max	1366 x 768 @ 60 Hz
	Recommend	VESA 1366 x 768 @ 60 Hz
Power consumption (Typ.)	On Mode : 19.8 W Typ.(Outgoing condition)*	
Power Input	19 V --- 0.8 A	
AC-DC Adapter	Type ADS-18SG-19-3 19016G, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPG, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPI, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPCU, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPB, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016EPCU-L, manufactured by SHENZHEN HONOR ELECTRONIC or Type LCAP42, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-E, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-I, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-U, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP60-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE	
	OUTPUT: 19 V --- 0.84 A	
Dimensions (Width x Height x Depth)	With Stand	441.3 mm x 350.2 mm x 167.8 mm
	Without Stand	441.3 mm x 278.1 mm x 57.3 mm
Weight	2.1 kg	
Tilt Range	-5° to 20°	
Environmental conditions	Operating Temperature	0°C to 40 °C
	Operating Humidity	≤ 80%
	Storage Temperature	-20°C to 60 °C
	Storage Humidity	≤ 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 LGE test standard(Full White pattern,Maximum resolution).

SPECIFICATIONS

20M38A

20M38D

20M38H

Display	Screen Type	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.271 mm x 0.262 mm (Pixel Pitch)
Resolution	Max	1600 x 900 @ 60 Hz
	Recommend	VESA 1600 x 900 @ 60 Hz
Power consumption (Typ.)	On Mode : 22 W Typ.(Outgoing condition)* Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V --- 0.8 A	
AC-DC Adapter	Type ADS-18SG-19-3 19016G, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPG, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPI, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPCU, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016GPB, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-18FSG-19 19016EPCU-L, manufactured by SHENZHEN HONOR ELECTRONIC or Type LCAP42, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-E, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-I, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP36-U, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP60-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE OUTPUT: 19 V --- 0.84A	
Dimensions (Width x Height x Depth)	With Stand	463.0 mm x 358.8 mm x 167.8 mm
	Without Stand	463.0 mm x 286.5 mm x 57.4 mm
Weight	2.0 kg	
Tilt Range	-5° to 20°	
Environmental conditions	Operating Temperature	0°C to 40 °C
	Operating Humidity	≤ 80%
	Storage Temperature	-20°C to 60 °C
	Storage Humidity	≤ 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 LGE test standard(Full White pattern,Maximum resolution).

			20M38A	20M38D	20M38H
Video Signal	Horizontal Frequency	30 kHz to 83 kHz (Automatic)	•	•	•
		30 kHz to 61 kHz (Automatic)			
	Vertical Frequency	56 Hz to 75 Hz (D-SUB)	•	•	•
		56 Hz to 75 Hz (DVI-D)		•	
		56 Hz to 75 Hz (HDMI)			•
	Synchronization	Separate Sync.	•	•	•
		Digital		•	•
Input Connector		15 pin D-SUB Connector	•	•	•
		DVI-D Connector (Digital)		•	
		HDMI Connector			•

SPECIFICATIONS

22M38A

22M38D

22M38H

Display	Screen Type	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.248 mm x 0.248 mm (Pixel Pitch)
Resolution	Max	1920 x 1080 @ 60 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Power consumption (Typ.)	On Mode : 25.3 W Typ.(Outgoing condition)* Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V --- 1.2 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	508.5 mm x 386.5 mm x 186.7 mm
	Without Stand	508.5 mm x 315.7 mm x 56.8 mm
Weight	22M38A 22M38D	2.4 kg
	22M38H	2.7 kg
Tilt Range	-5° to 20°	
Environmental conditions	Operating Temperature	0°C to 40 °C
	Operating Humidity	≤ 80%
	Storage Temperature	-20°C to 60 °C
	Storage Humidity	≤ 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 LGE test standard(Full White pattern , Maximum resolution)

			22M38A	22M38D	22M38H
Video Signal	Horizontal Frequency	30 kHz to 83 kHz (Automatic)	●	●	●
		30 kHz to 61 kHz (Automatic)			
	Vertical Frequency	56 Hz to 75 Hz (D-SUB)	●	●	●
		56 Hz to 75 Hz (DVI-D)		●	
		56 Hz to 75 Hz (HDMI)			●
	Synchronization	Separate Sync.	●	●	●
		Digital		●	●
Input Connector		15 pin D-SUB Connector	●	●	●
		DVI-D Connector (Digital)		●	
		HDMI Connector			●

SPECIFICATIONS

24M38A

24M38D

24M38H

Display	Screen Type	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.272 mm x 0.272 mm (Pixel Pitch)
Resolution	Max	1920 x 1080 @ 60 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Power consumption (Typ.)	On Mode : 27.5 W Typ.(Outgoing condition)* Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W	
Power Input	19 V --- 1.2 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	556.2 mm x 415.1 mm x 186.7 mm
	Without Stand	556.2 mm x 344.0 mm x 56.8 mm
Weight	2.8 kg	
Tilt Range	-5° to 20°	
Environmental conditions	Operating Temperature	0°C to 40°C
	Operating Humidity	≤ 80%
	Storage Temperature	-20°C to 60 °C
	Storage Humidity	≤ 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 LGE test standard(Full White pattern,Maximum resolution).

			24M38A	24M38D	24M38H
Video Signal	Horizontal Frequency	30 kHz to 83 kHz (Automatic)	•	•	•
		30 kHz to 61 kHz (Automatic)			
	Vertical Frequency	56 Hz to 75 Hz (D-SUB)	•	•	•
		56 Hz to 75 Hz (DVI-D)		•	
		56 Hz to 75 Hz (HDMI)			•
	Synchronization	Separate Sync.	•	•	•
		Digital		•	•
Input Connector		15 pin D-SUB Connector	•	•	•
		DVI-D Connector (Digital)		•	
		HDMI Connector			•

SPECIFICATIONS

27MP38HQ 27MP38VQ

Display	Screen Type	Flat Panel Active matrix-TFT LCD Anti-Glare coating
	Pixel Pitch	0.311 mm x 0.311 mm (Pixel Pitch)
Resolution	Max	1920 x 1080 @ 60 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Power consumption (Typ.)	On Mode : 31.13 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	641.4 mm x 459.7 mm x 203.0 mm
	Without Stand	641.4 mm x 393.0 mm x 48.2 mm
Weight	4.4 kg	
Tilt Range	-5° to 20°	
Environmental conditions	Operating Temperature	0°C to 40 °C
	Operating Humidity	≤ 80%
	Storage Temperature	-20°C to 60 °C
	Storage Humidity	≤ 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 LGE test standard(Full White pattern,Maximum resolution).

			27MP38HQ	27MP38VQ
Video Signal	Horizontal Frequency	30 kHz to 83 kHz (Automatic)	●	●
		30 kHz to 61 kHz (Automatic)		
	Vertical Frequency	56 Hz to 75 Hz (D-SUB)	●	●
		56 Hz to 75 Hz (DVI-D)		●
		56 Hz to 75 Hz (HDMI)	●	●
	Synchronization	Separate Sync.	●	●
		Digital	●	●
Input Connector		15 pin D-SUB Connector	●	●
		DVI-D Connector (Digital)		●
		HDMI Connector	●	●

Preset Modes (Resolution)

D-SUB/DVI-D Timing

19M38A 19M38D 19M38H 19M38AB 19M38HB

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	+/+	
832 x 624	49.725	75	-/-	
1024 x 768	48.363	60	-/-	
1366 x 768	47.712	60	+/+	Recommend Mode

20M38A 20M38D 20M38H

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	+/+	
1600 x 900	60.000	60	+/+	Recommend Mode

22M38A 22M38D 22M38H 24M38A 24M38D 24M38H 27MP38HQ 27MP38VQ

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

19M38H 20M38H 19M38HB

Factory support mode (Preset Mode)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	HDMI
480P	31	60	O
576P	31.25	50	O
720P	37.50	50	O
720P	45.00	60	O

22M38H 24M38H 27MP38VQ 27MP38HQ

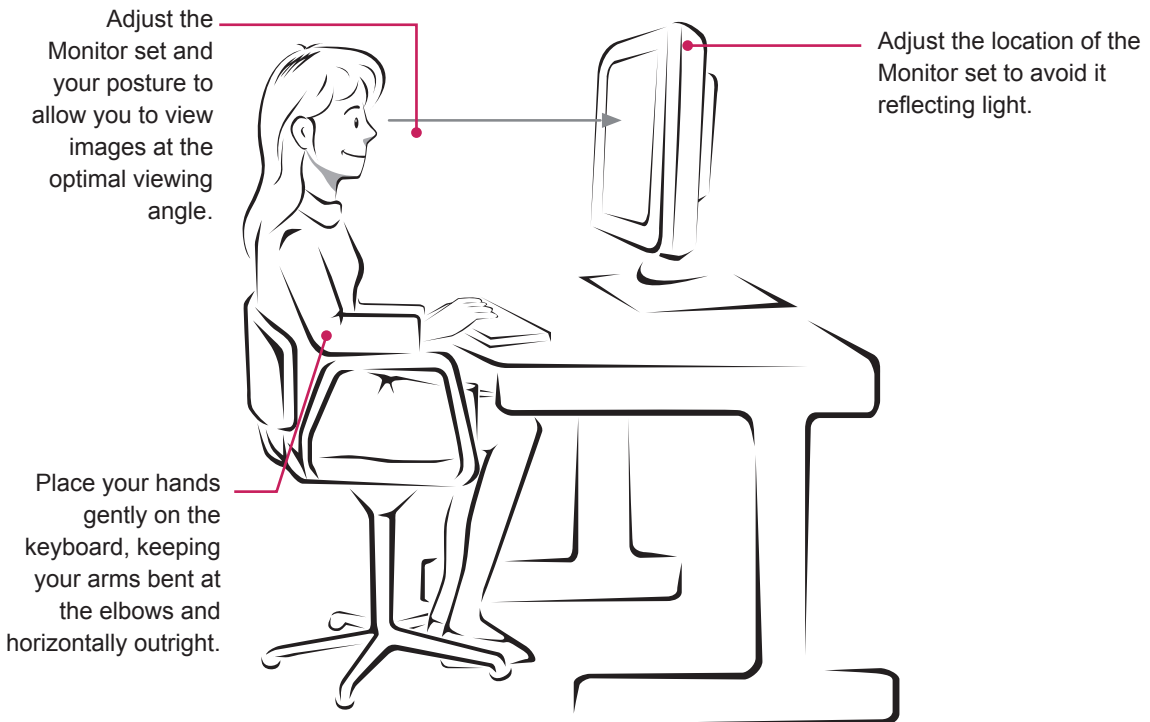
Factory support mode (Preset Mode)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	HDMI
480P	31.50	60	O
576P	31.25	50	O
720P	37.50	50	O
720P	45.00	60	O
1080P	56.25	50	O
1080P	67.50	60	O Recommend Mode

Indicator

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

PROPER POSTURE

Proper posture for using the Monitor set.





The model and serial number of the product are located on the back and on one side of the product.

Record them below in case you ever need service.

MODEL _____

SERIAL _____