User's Guide

L1930B **H
L1930BQ

Make sure to read the **Important Precautions** before using the product.
Keep the User's Guide(CD) in an accessible place for furture reference.

See the label attached on the back cover and quote this information to your dealer when you require service.

LG

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential e shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this display, observe the following basic rules for its installation, use, and servicing.

On Safety

Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards if not being provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

The power supply cord is used as the main disconnection device. Ensure that the socket-outlet is easily accessible after installation.

Operate the display only from a power source indicated in the specifications of this manual or listed on the display. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Do not Open the Display.
- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the display is not operating properly.

To Avoid Personal Injury :
- Do not place the display on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.

To Prevent Fire or Hazards:
- Always turn the display OFF if you leave the room for more than a short period of time. Never leave the display ON when leaving the house.
- Keep children from dropping or pushing objects into the display's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this display.
- During a lightning storm or when the display is to be left unattended for an extended period of time, unplug it from the wall outlet.

On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the display where the power cord is subject to damage.

Do not use this display near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
Displays are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore, NEVER:

- Block the bottom ventilation slots by placing the display on a bed, sofa, rug, etc.
- Place the display in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the display near or over a radiator or heat source.

Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

Do not press the LCD screen with your finger for a long time as this may cause some afterimages.

Some dot defects may appear as Red, Green or Blue spots on the screen. However, this will have no impact or effect on the display performance.

If possible, use the recommended resolution to obtain the best image quality for your LCD display. If used under any mode except the recommended resolution, some scaled or processed images may appear on the screen. However, this is characteristic of the fixed-resolution LCD panel.

On Cleaning

- Unplug the display before cleaning the face of the display screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the display screen because over-spraying may cause electrical shock.

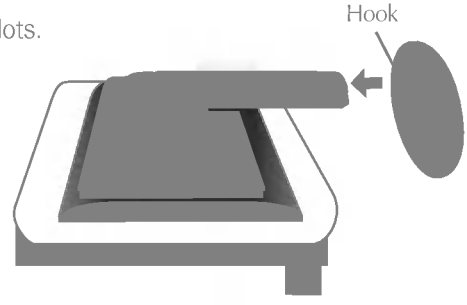
On Repacking

- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

- **Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.**

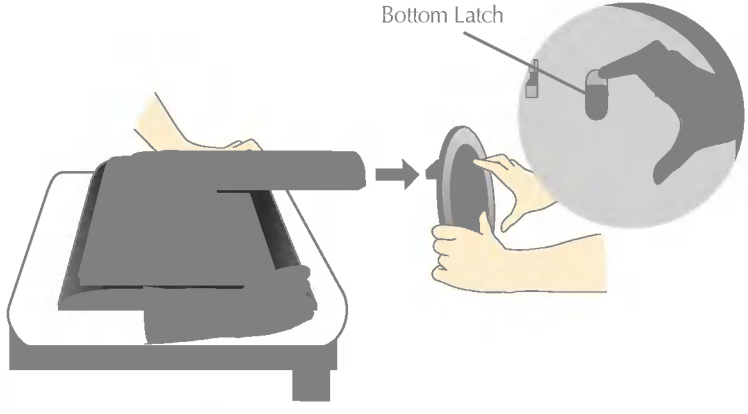
Connecting the stand base

1. Place the monitor with its front facing downward on a cushion or soft cloth.
2. Align the hooks on the stand base with the matching slots in the base of the monitor.
3. Insert the hooks into slots.



Removing the stand base

1. Place the monitor with its front facing downward on a cushion or soft cloth.
2. Hold the monitor while pressing the bottom latch downwards and pulling back the stand base, as shown in the figure.



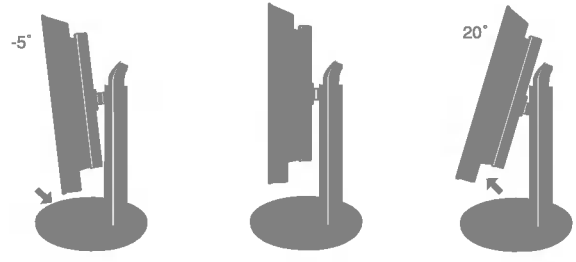
Important

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

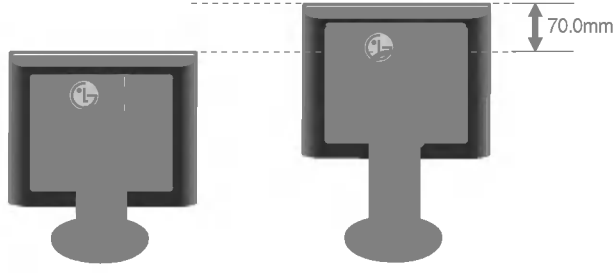
Positioning your display

Adjust the position of the panel in various ways for maximum comfort.

- Tilt Range : -5˚~20˚

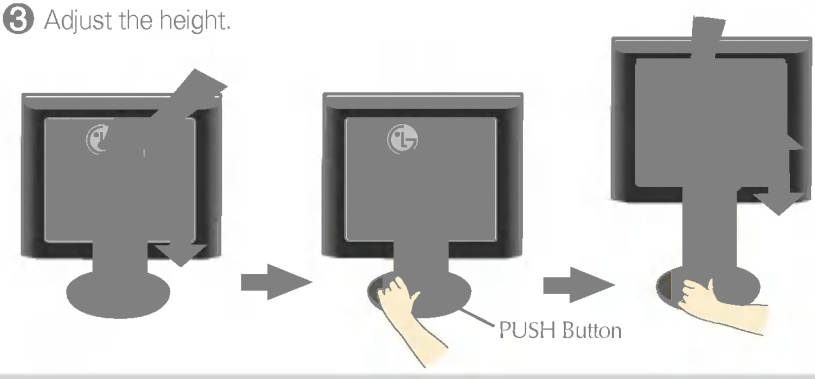


- Height Range : maximun 2.76 inch (70.0mm)



- **To adjust height of monitor**

1. Push down the top of monitor
2. While pressing the PUSH button.
3. Adjust the height.

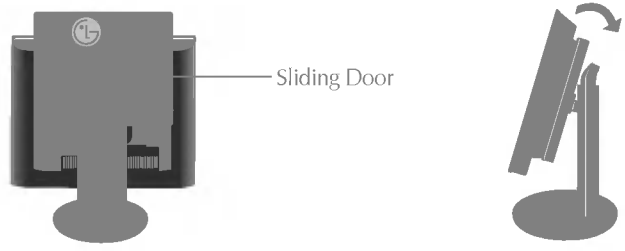


Ergonomic

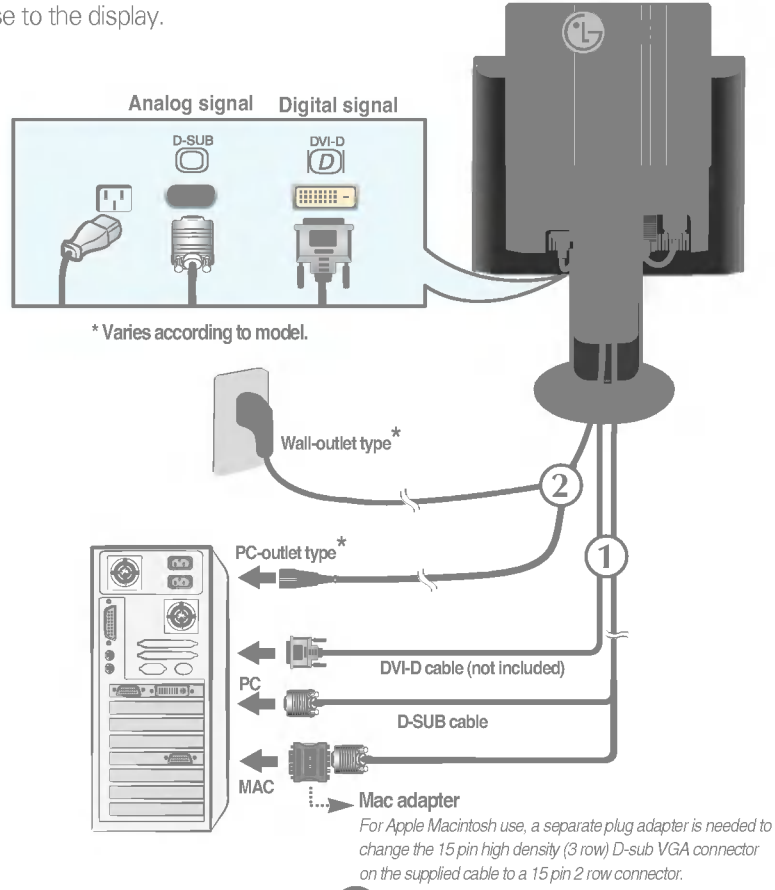
It is recommended that in order to maintain an ergonomic and comfortable viewing position, the forward tilt angle of the monitor should not exceed 5 degrees.

Using the Computer

1. Slide up the **Sliding Door** and tilt the monitor backward for easily connecting the cables.

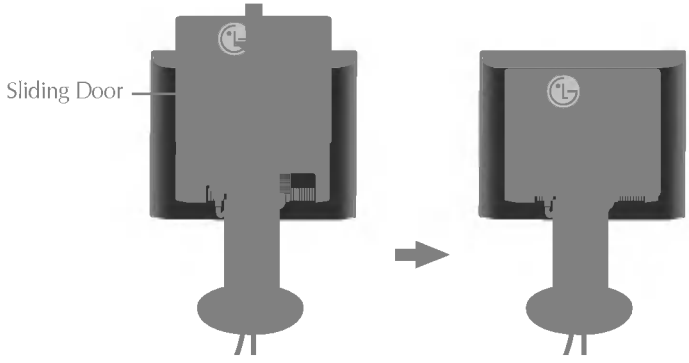


2. Connect the signal cable. When attached, tighten the thumbscrews to secure the connection.
3. Connect the power cord into a proper power outlet that is easily accessible and close to the display.



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.

4. Slide down the **Sliding Door**.

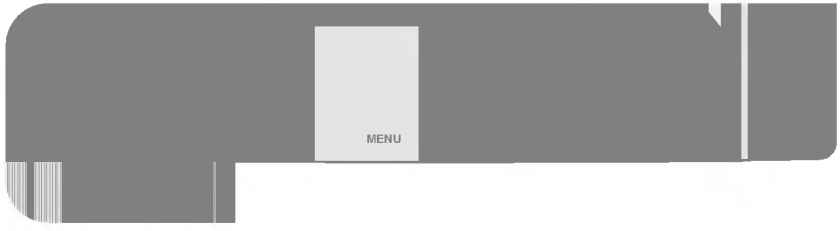


5. Press ⏻ button on the front switch panel to turn the power on. When monitor power is turned on, the **'Self Image Setting Function'** is executed automatically.

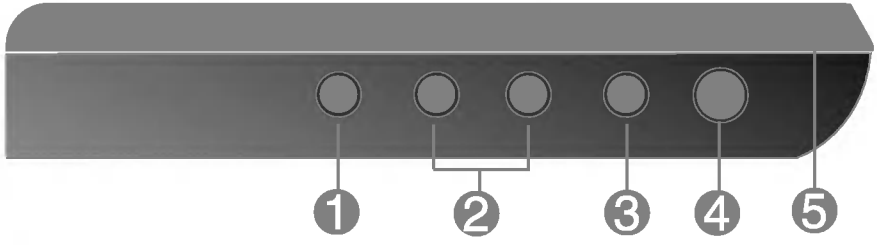
NOTE

' 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. If you want to adjust the monitor while in use, or wish to manually run this function once again, push the 'AUTO' button on the front panel of the monitor. Otherwise, you may execute the 'FACTORY RESET' option on the OSD adjustment menu. However, be aware that this option initializes all the menu items except 'LANGUAGE'.

Front Panel Controls



Bottom



Control		Function
1	**MENU Button**	Use this button to enter or exit the On Screen Display.
		OSD LOCKED/UNLOCKED This function allows you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the **MENU button** for 5 seconds. The message **"OSD LOCKED"** should appear. You can unlock the OSD controls at any time by pushing the **MENU button** for 5 seconds. The message **"OSD UNLOCKED"** should appear.
2	**- + Buttons**	Use these buttons to select or adjust functions in the On Screen Display.
	- Button	**LightView hot key** For more information, refer to page A14
	+ Button	**SOURCE hot key** Use this button to make Dsub or DVI connector active. This feature is used when two computers are connected to the display. The default setting is Dsub.

Control Panel Functions

Control	Function
❸ **SET/AUTO Button**	Use this button to enter a selection in the On Screen Display. **AUTO IMAGE ADJUSTMENT** When adjusting your display settings, always press the **SET/AUTO** button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode). The best display mode is 19 inch monitor : **1280x1024**
❹ **Power Button**	Use this button to turn the display on or off.
❺ **Power (DPMS) Indicator**	This Indicator lights up green when the display operates normally. If the display is in DPM (Energy Saving) mode, this indicator color changes to amber.

Screen Adjustment

Making adjustments to the image size, position and operating parameters of the display is quick and easy with the On Screen Display Control system. A short example is given below to familiarize you with the use of the controls. The following section is an outline of the available adjustments and selections you can make using the OSD.

NOTE
- Allow the display to stabilize for at least 30 minutes before making image adjustments.

To make adjustments in the On Screen Display, follow these steps:

MENU → − + → SET/AUTO → − + → MENU

1. Press the **MENU Button**, then the main menu of the OSD appears.
2. To access a control, use the **− or + Buttons**. When the icon you want becomes highlighted, press the **SET/AUTO Button**.
3. Use the **− /+ Buttons** to adjust the image to the desired level. Use the **SET/AUTO Button** to select other sub-menu items.
4. Push the **MENU Button** once to return to the main menu to select another function. Push the **MENU Button** twice to exit from the OSD.

Automatic save

With the OSD open, once you have made an adjustment the monitor automatically save any adjustments you have made, even if you exit the menu or open another menu. If you make an adjustment and then wait for the OSD to disappear, the adjustment will also been saved.

The following table indicates all the On Screen Display control, adjustment, and setting menus.

Main menu	Sub menu	A	D	Reference
PICTURE	BRIGHTNESS	●	●	To adjust the brightness, contrast and gamma of the screen
	CONTRAST	●	●	
	GAMMA	●	●	
COLOR	PRESET	●	●	To customize the color of the screen
	RED	●	●	
	GREEN	●	●	
	BLUE	●	●	
POSITION	H POSITION	●		To adjust the position of the screen
	V POSITION	●		
TRACKING	CLOCK	●		To improve the clarity and stability of the screen
	PHASE	●		
FACTORY RESET	FACTORY RESET	●	●	To restore the default settings
	WHITE BALANCE	●		
SETUP	LANGUAGE	●	●	To customize the screen status for a user's operating environment
	OSD H POSITION	●	●	
	OSD V POSITION	●	●	
LIGHTVIEW	DAY TEXT/MOVIE/PHOTO	●	●	To select or customize desired image settings
	NIGHT TEXT/MOVIE/PHOTO	●	●	
	USER1/2	●	●	
	NORMAL	●	●	

● : Adjustable
A : Analog Input
D : Digital Input

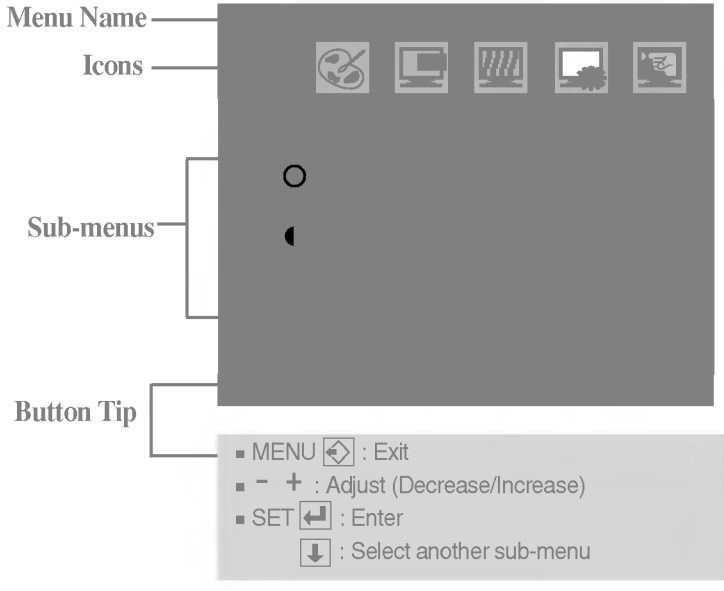
NOTE

- The order of icons may differ depending on the model (A10~A14).
- If you set the **LIGHTVIEW** menu, the **PICTURE** and **COLOR** menu will be disabled cannot be changed. However, if **NORMAL** menu (default setting) is selected, the **PICTURE** and **COLOR** menu can be adjusted.

On Screen Display(OSD) Selection and Adjustment

You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.

Press the MENU Button, then the main menu of the OSD appears.



NOTE

■ OSD (On Screen Display) menu languages on the monitor may differ from the manual.

PICTURE



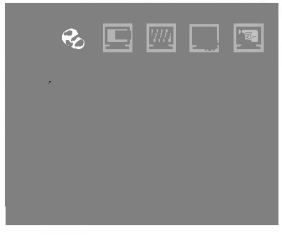
BRIGHTNESS To adjust the brightness of the screen.

CONTRAST To adjust the contrast of the screen.

GAMMA Set your own gamma value. : -50/0/50
On the monitor, high gamma values display whitish images and low gamma values display high contrast images.

- **MENU** : Exit
- **−** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

COLOR



PRESET Select the screen color.
- 9300K: Slightly bluish white.
- 6500K: Slightly reddish white.

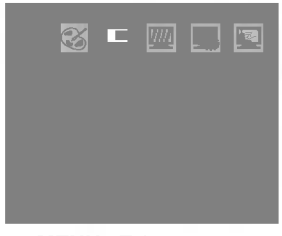
RED Set your own red color levels.

GREEN Set your own green color levels.

BLUE Set your own blue color levels.

- **MENU** : Exit
- **−** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

POSITION

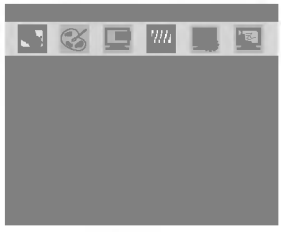


H POSITION To move image left and right.

V POSITION To move image up and down.

- **MENU** : Exit
- **−** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

TRACKING

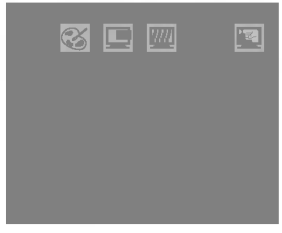


CLOCK — To minimize any vertical bars or stripes visible on the screen background.The horizontal screen size will also change.

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.

- **MENU** : Exit
- **−** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

FACTORY RESET



FACTORY RESET — Restore all factory default settings except **"LANGUAGE."**
If you want to reset the monitor, select the **YES** and then press the - or + button to execute.

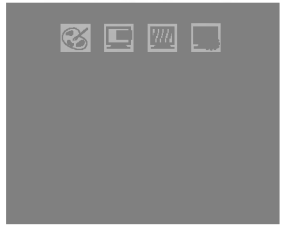
WHITE BALANCE — If the output of the video card is different the required specifications, the color level may deteriorate due to video signal distortion. Using this function, the signal level is adjusted to fit into the standard output level of the video card in order to provide the optimal image.
Activate this function when white and black colors are present in the screen.

For example 

- **MENU** : Exit
- **−** : Adjust
- **+** : Adjust
- **SET** : Select another sub-menu

If this does not improve the screen image, restore the factory default settings. If necessary, perform the white balance function again. This function will be enabled only when the input signal is an analog signal.
If you want to adjust, select the **YES** and then press the - or + button to execute.

SETUP



LANGUAGE — To choose the language in which the control names are displayed.

OSD H POSITION — To adjust horizontal position of the OSD window on the screen.

OSD V POSITION — To adjust vertical position of the OSD window on the screen.

- **MENU** : Exit
- **−** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

On Screen Display(OSD) Selection and Adjustment

Press the LIGHTVIEW(-) Button, then the main menu of the OSD appears.



LIGHTVIEW



DAY
NIGHT

This feature lets you easily select the best desired image condition optimized to the environment (ambient illumination, image types etc).

- **DAY** : Bright ambient illumination
- **NIGHT** : Dark ambient illumination
- **TEXT** : For text images (Word processing etc.)
- **MOVIE** : For animation images in videos or movies
- **PHOTO** : For pictures or drawings

▪ **-** **+** : Select another sub-menu

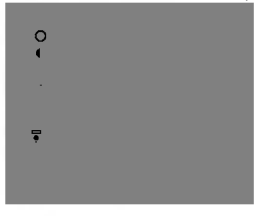


USER 1
USER 2

User can preset the **BRIGHTNESS, CONTRAST, GAMMA**, and **PRESET** levels and save them for later use.

Select the [ ] sub-menu using the **SET button** and save the **YES** value using the **-/+ buttons**.

To adjust the **USER1/USER2** sub-menu function, Press the **SET** Button



▪ **MENU** : Exit
▪ **-** : Decrease
▪ **+** : Increase
▪ **SET** : Select another sub-menu



NORMAL This is under normal operating conditions.

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 on and the power indicator green?**	• Adjust the brightness and the contrast.
◉ **Is the power indicator amber?**	• If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen. • Make sure if the power is on. • 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 "CHECK SIGNAL CABLE "message on the screen?**	• This message appears when the signal cable between your PC and your display is not connected. Check the signal cable and try again.

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 5 seconds. The message **"OSD UNLOCKED"** should appear.

Display image is incorrect

◉ **Display Position is incorrect.**	• Press the **SET/AUTO** button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, adjust the image position using the **H position and V position** icon in the on screen display. • 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**.**
◉ **On the screen background, vertical bars or stripes are visible.**	• Press the **SET/AUTO** button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, decrease the vertical bars or stripes using the **CLOCK** icon in the on screen display.
◉ **Any horizontal noise appearing in any image or characters are not clearly portrayed.**	• Press the **SET/AUTO** button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, decrease the horizontal bars using the **PHASE** icon in the on screen display. • 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).
◉ **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. • Make sure the power voltage is high enough, It has to be higher than **AC100-240V 50/60Hz.**

Have you installed the display driver?

◉ **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.lge.com.
◉ **Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?**	• Make sure to check if the video card supports Plug&Play function.

PICTURE and COLOR menus can not be activated from the OSD menu

◉ **Are you unable to open the PICTURE or COLOR menus from the OSD menu?**	• Ensure that the **NORMAL** setting is selected for **LIGHTVIEW**. If **LIGHTVIEW** is set to **DAY TEXT/MOVIE/PHOTO, NIGHT TEXT/MOVIE/PHOTO, or USER1/USER2,** the **PICTURE** and **COLOR** menus will not function. To make an adjustment, set **LIGHTVIEW** to **NORMAL.**

Display	19 inches (48.26cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating 19 inches viewable 0.294 mm pixel pitch	
Sync Input	Horizontal Freq.	30 - 83kHz (Automatic)
	Vertical Freq.	56 - 75Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative Composite TTL Positive/Negative SOG (Sync On Green) Digital
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector
	Input Form	RGB Analog (0.7Vp-p/75ohm), Digital
Resolution	Max	VESA 1280 x 1024@75Hz
	Recommend	VESA 1280 x 1024@60Hz
Plug&Play	DDC 2B	
Power Consumption	Normal	: 45W
	Stand-by/Suspend	≤ 2W
	DPMS Off	≤ 2W
Dimensions (with tilt stand)	Width	44.44 cm / 17.50 inches
	Height	43.67 cm / 17.19 inches (Min) 50.67 cm / 19.95 inches (Max)
	Depth	22.00 cm / 8.66 inches
	Net	7.3 kg (16.09 lbs)
Tilt/Height Range	Tilt	-5˚~20˚
	Swivel	300˚
	Height	2.76 inch (70.0mm)
Power Input	AC 100-240V~ 50/60Hz 1.0A	
	Operating Conditions Temperature Humidity	 10˚C to 35 ˚C 10 % to 80 % non-Condensing
	Storage Conditions Temperature Humidity	 -20˚C to 60 ˚C 5 % to 95 % non-Condensing
	Attached( ), Detachable (O)	
	Attached( ), Detachable (O)	
	Wall-outlet type or PC-outlet type	

NOTE

- Information in this document is subject to change without notice.

Preset Modes (Resolution)

◉ **19 inch monitor**

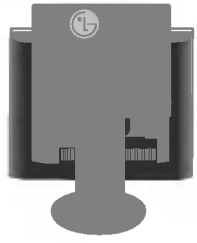
1	VGA	640 x 350	31.469	70
2	VGA	720 x 400	31.468	70
3	VGA	640 x 480	31.469	60
4	VESA	640 x 480	37.500	75
5	VESA	800 x 600	37.879	60
6	VESA	800 x 600	46.875	75
7	MAC	832 x 624	49.725	75
8	VESA	1024 x 768	48.363	60
9	VESA	1024 x 768	60.123	75
10	MAC	1152 x 870	68.681	75
11	VESA	1152 x 900	61.805	65
12	VESA	1280 x 1024	63.981	60
13	VESA	1280 x 1024	79.976	75

Indicator

Normal	green
Stand-by/Suspend	amber
DPMS Off	amber

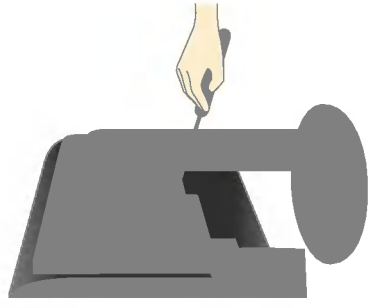
This monitor meets VESA-compliant mounting interface pad specifications.

1. Remove the **Sliding Door**.

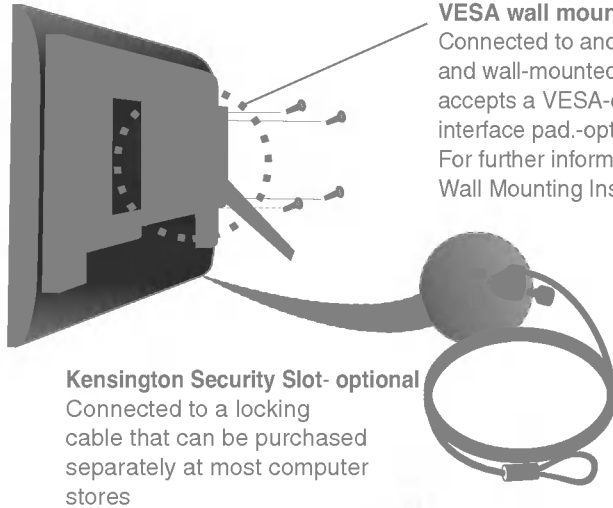


2. Please the monitor on a piece of cloth or other soft surface with the front side facing downward.

3. Separate the stand base using a screwdriver as shown in the picture.



4. Install the VESA standrad wall mounting.



VESA wall mounting
Connected to another object (stand type and wall-mounted type. This monitor accepts a VESA-compliant mounting interface pad.-optional)
For further information, refer to the VESA Wall Mounting Instruction Guide.

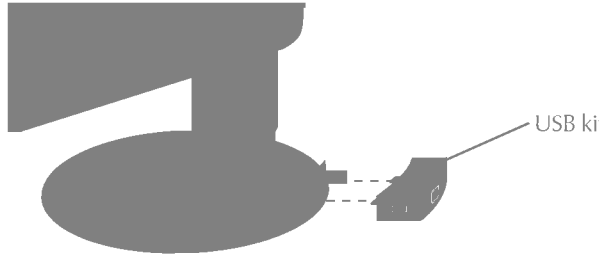
Kensington Security Slot- optional
Connected to a locking cable that can be purchased separately at most computer stores

Making use of USB (Universal Serial Bus) - Optional

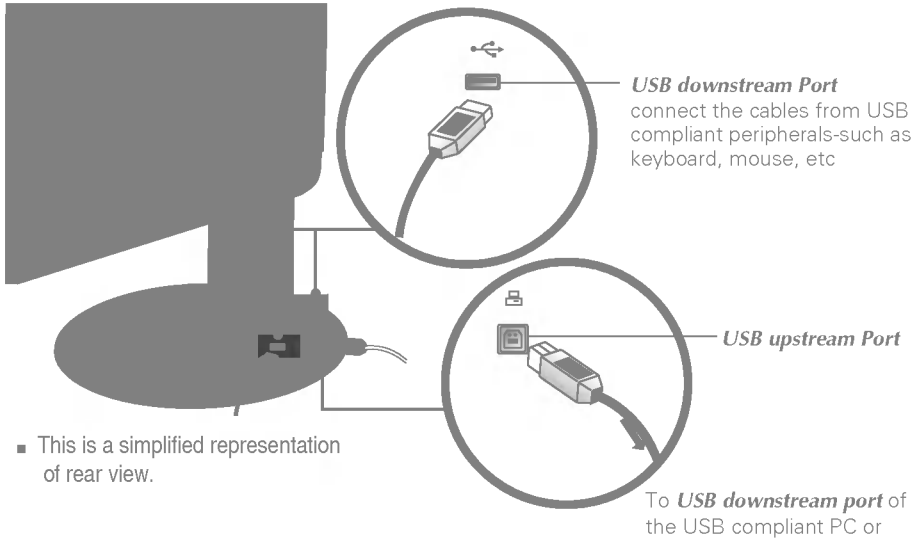
USB (Universal Serial Bus) is an innovation in connecting your different desktop peripherals conveniently to your computer. By using the USB, you will be able to connect your mouse, keyboard, and other peripherals to your display instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. USB allows you to connect a chain of up to 120 devices on a single USB port; and you can "hot" plug (attach them while the computer is running) or unplug them while maintaining the Plug and the Plug auto detection and configuration. This display has an integrated BUS-powered USB hub, allowing up to 2 other USB devices to be attached it.

USB connection

1. Connect the USB kit, as shown in the figure.



2. Connect the upstream port of the display to the downstream port of the USB compliant PC or another hub using the USB cable. (Computer must have a USB port)
3. Connect the USB compliant peripherals to the downstream ports of the display.



- This is a simplified representation of rear view.

Removing the USB kit

Pull up the USB kit, as shown in the figure.



NOTE

- To activate the USB hub function, the display must be connected to a USB compliant PC(OS) or another hub with the USB cable(enclosed).
- When connecting the USB cable, check that the shape of the connector at the cable side matches the shape at the connecting side.
- Even if the display is in a power saving mode, USB compliant devices will function when they are connected the USB ports(both the upstream and downstream) of the display.

USB Specifications

USB standard	Rev. 1.1 complied BUS-powered hub
Downstream power supply	100mA for each (MAX)
Communication speed	12Mbps
	1 Upstream port 2 Downstream ports

IMPORTANT: These USB connectors are not designed for use with high-power USB devices such as a video camera, scanner, etc. LGE recommends connecting high-power USB devices directly to the computer

Digitally yours

