Important Precautions

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential eletrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this monitor, 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 disconnect device. Ensure that the socket-outlet is easily accessible after installation.

Operate the monitor only from a power source indicated in the specifications of this manual or listed on the monitor. 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 Monitor.

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

To Avoid Personal Injury:

- Do not place the monitor on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

To Prevent Fire or Hazards:

- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.
- Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this monitor.
- During a lightning storm or when the monitor is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

Important Precautions

On Installation

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

Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. Monitors 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 monitor on a bed, sofa, rug, etc.
- Place the monitor in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the monitor near or over a radiator or heat source.

On Cleaning

- Unplug the monitor before cleaning the face of the monitor screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the monitor screen because overspray 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.

Connecting the Monitor

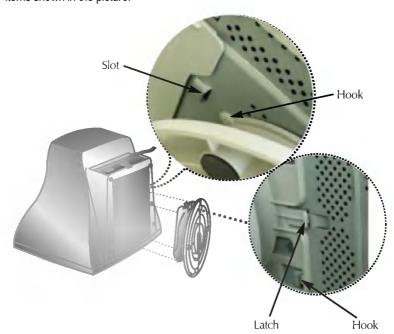
- Before setting up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices.
- Carefully set the monitor face-down with the underside facing you.

Connecting the Tilt/Swivel stand

- ${f 1.}$ Align the hooks on the tilt/swivel stand with the matching slots in the base of the monitor.
- **2.** Insert the hooks into slots.
- **3.** Slide the tilt/swivel stand toward the front of the monitor until the latches click into the locked position.

NOTE

■ This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.



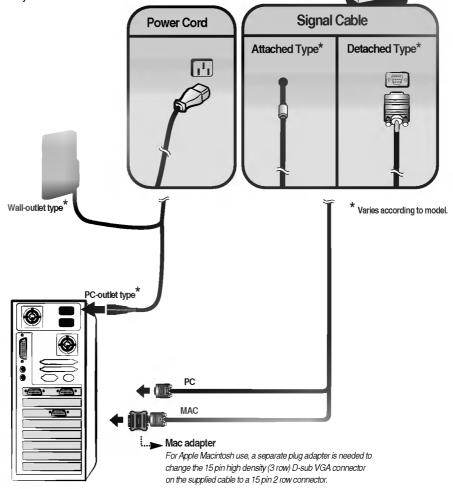
Using the Computer

- 1_{ullet} Connect the signal cable. When mated, tighten the thumbscrews to secure the connection.
- connection.
 Connect the power cord into a properly power outlet that is easily accessible and close to the monitor.

NOTE

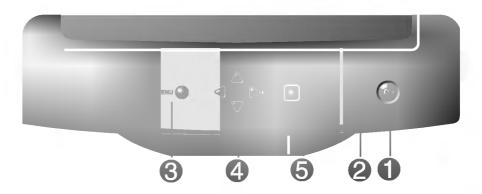
■ This is a simplified representation of the rear view.

This rear view represents a general model; your monitor may differ from the view as shown.

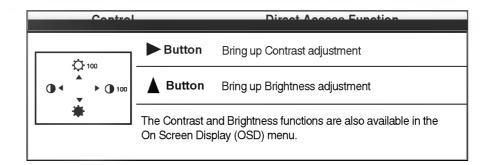


Control Panel Functions

Front Panel Controls



	Control	Cunation	
1	Power Button	Use this button to turn the monitor on or off.	
Power (DPMS) Indicator		This Indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode, this indicator color changes to amber.	
8	MENU (or OSD) Button	Use this button to enter or exit the on screen display.	
4	▲ ▼ / ◀ ▶ Buttons	Use these buttons to choose or adjust items in the on screen display.	
6	SELECT (or SET) Button	Use this button to enter a selection in the on screen display.	



Screen Adjustment

Making adjustments to the image size, position and operating parameters of the monitor is quick and easy with the On Screen Display Control system. A short example is quick and easy 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 monitor to stabilize for at least 30 minutes before making image adjustments.

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

- Press the MENU (or OSD) 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 SELECT (or SET) Button.
- \mathfrak{Z} Use the $\blacktriangle \ \ \, \bigvee / \blacktriangleleft \ \ \,$ **Buttons** to adjust the item to the desired level.
- Accept the changes by pressing the SELECT (or SET) Button.
- **5** Exit the OSD by Pressing the **MENU** (or **OSD**) Button.

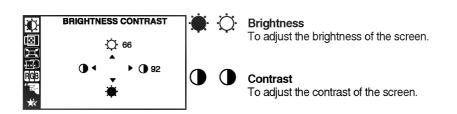
On Screen Display(OSD) Selection and Adjustment

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

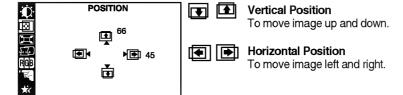
Main menu	Suh menu			Reference		
BRIGHTNESS/ CONTRAST	Brightness Contrast		•	To adjust the brightness and contrast of the screen		
POSITION	V Position H Position		•	To adjust the position of the screen		
SIZE	V Size H Size		•	To adjust the size of the screen		
SHAPE	Tilt Side Pincushion S Pincushion Balance Parallelogram Trapezoid H Corner Top Corner Bottom Corner		•	To adjust the shape of the screen		
RGB COLOR	PRESET Temp R/G/B(Us	9300K	• • •	To customize the color of the screen		
SETUP	Video Level Language OSD Time		• • •	To customize the screen status for a user's operating environment		
SPECIAL	I ⊢	H Moire / Moire nce	• • •	To improve the clarity and stability of the screen		
• : Adjustable						

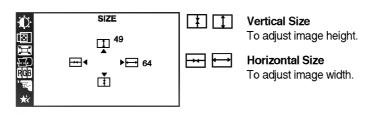
You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.

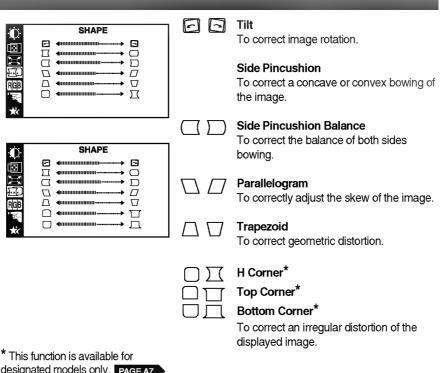
To adjust the hrightness and contrast of the screen



To adjust the position of the server

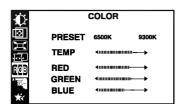






designated models only. PAGE A7

Tametaminatha calanaf tha care



PRESET 6500K/9300K

Select the screen color.

6500K: Slightly reddish white.9300K: Slightly bluish white.

TEMP Select the scre

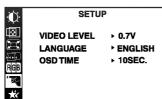
Select the screen temperature which you prefer among reddish or bluish or any color

in between.

RED GREEN BLUE

Set your own color levels.

To auctomize the careen status for a useful apprehing environment



VIDEO LEVEL This item is used to select the monitor's

input signal level. The normal level used for

most PCs is 0.7V.

If the screen becomes suddenly washedout or blurred, please select 1.0V and try

again.

LANGUAGE To choose the language in which the

control names are displayed.

OSD Menus are available in 11 languages: English, German, French, Spanish, Italian, Swedish, Finnish, Portuguese, Korean,

Chinese and Russian.

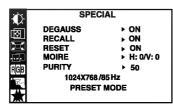
OSD TIME Set the OSD time, i.e. the length of time a

menu will remain on-screen before it shuts off automatically. Adjust the time to 5, 10,

20, 30 or 60 seconds.

On Screen Display(OSD) Selection and Adjustment

To improve the clarity and etability of the corner



SPECIAL

DEGAUSS → ON

RECALL → ON

RESET → ON

MOIRE → H: 0/V: 0

CONVERGENCE → 50

PURITY → 50

1024X768/85 Hz

PRESET MODE

DEGAUSS To manually demagnetize the screen to avoid showing incorrect images or colors.

RECALL You can use this function to reload the modified parameters for screen display operation, as specified by the user after purchase: Position, Size, Side Pincushion, Trapezoid (These recalled options may differ depending on the mode selected: Preset,

User, or New).

If you don't want to recall the monitor to these modified settings, use the ▲ ▼ button to select CANCEL and then press the SELECT (or SET) button.

RESET

Return to all factory default settings except "LANGUAGE": Brightness, Contrast, Tilt, Color 9300K, Video Level, OSD Time, Moire (These reset options may differ depending on the mode selected: Preset, User, or New).

If you don't want to reset the monitor, use the ▲ ▼ button to select CANCEL and then press the SELECT (or SET) button.

MOIRE

This item allows you to reduce the degree of moire. (Moire is caused by interference Horizontal Scan Line with the periodical dot screen). It is normally OFF(H:0/V:0). The moire adjustments may affect the focus of the screen.

Moire adjustments may shake slightly while the moire reduction function is on.

CONVER- This is to adjust the alignment of red **GENCE*** and blue fields.

PURITY*

Use to adjust the purity on the screen if the color appears uneven.

^{*} This function is available for designated models only. PAGE A7

Check the following before calling for service.

la wasara ana

- Is the power cord of the monitor connected?
- Is the power indicator light on?
- Is the power on and the power indicator green?
- Is the power indicator amber?
- Do you see an "OUT OF FREQUENCY" message on the screen?
- Do you see a "SELF DIAGNOSITICS" message on the screen?

- Check and see if the power cord is connected properly to the power outlet.
- · Press the Power button.
- · Adjust the brightness and the contrast.
- If the monitor is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.
- This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the monitor. See the 'Specifications' section of this manual and configure your monitor again.
- This message appears when the signal cable between your PC and your monitor is not connected. Check the signal cable and try again.

The cover is flickening

- Is the vertical frequency less than 70Hz or is your monitor set to the interlaced mode?
- Do you have any magnetic material such as adapter, or highvoltage line near to your monitor?
- Do you hear a "~ding" sound while the monitor is flickering?
- Set the vertical frequency to 72Hz or higher, and consult the video card user manual for instructions on converting to a non-interlaced mode.

 (You can set this option under the Display icon of the Control Panel.)
- Remove magnetic sources, such as power adapters, speakers, or high-voltage lines, away from the monitor.
- Use the normal degaussing function. This function clears the screen and reduces any screen blur that may occur due to the surrounding magnetic field. The screen may flicker for about 5 seconds, accompanied by a "~ding" sound.

The coreer colorie act normal

- Do you see basic discoloration (16 colors)?
- Is the screen color unstable or monochrome?
- Do you see black dots on the screen?
- Do you see a partial blurring on the screen?
- Set the color depth to 256 colors or higher: use 'Control Panel' → 'Display' → 'Settings' → 'Color Palette'
- Check the connection of the signal cable. Or pull out the video card of the PC and insert it again.
- This is due to a small amount of foreign or abnormally florescent material that became fastened on the mask during manufacturing. It will not affect product performance.
- This happens due to interference from surrounding magnetic fields, as created when speakers, steel structures, or high-voltage lines are placed near the monitor. Remove any such materials from the immediate vicinity and use the DEGAUSS icon on the screen adjustment menu to fix the screen.

Lean an after image on the corner

- Do you see the after-image even when you turn off the monitor?
- A premature aging of the monitor pixels may cause the prolonged display of a single image on the screen. Be sure to use a screen saver to maximize the service life of the monitor.

Do you see the wave directly on the screen?

This occurs in inverse proportion to the screen focus, which can be caused by a particular frequency or video card. Brighten the screen and use the 'MOIRE' icon on the screen adjustment menu to adjust the screen.

Have you installed the monitor driver?

- Have you installed the monitor driver?
- Be sure to install the monitor driver from the monitor driver CD (or diskette) that comes with your monitor. Or, you can also download the driver from our web site: http://www.lge.com.

Picture Tube	19 inches (18.0 inches viewable) 90 degree deflection 0.25mm dot pitch ARAS(Anti-Reflective Anti-Static) coating			
Sync Input	Horizontal Freq. Vertical Freq. Input Form Signal Input	30 - 96kHz (Automatic) 50 - 160Hz (Automatic) Separate TTL, Positive/Negative CompositeTTL, Positive/Negative 15 pin D-Sub Connector		
Video Input	Input Form Resolution(max)	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positiv 1600 × 1200@75Hz		
Plug&Play	DDC 2B			
Power Consumption	Normal Stand-by/Suspend Power Off	83W ≤ 8W ≤ 3W		
Dimensions &Weight (with tilt/ swive)	Width Height Depth	44.8 cm / 17.6 inches 45.3 cm / 17.8 inches 47.4 cm / 18.7 inches		
Stanio)	Net	21.7 kg (47.8 lbs)		
Tower Import	Europe	AC 200-240V 50Hz 1.0A		
	Others AC 100-240V 50/60Hz 2.0A The products should be used according to the Power requirements of each ID LABEL.			
Environmental	Operating Conditi Temperature Humidity	ons 0°C to 40 °C 10 % to 90 % non-Condensing		
	Storage Condition Temperature Humidity	ns -20°C to 60 °C 5 % to 90 % non-Condensing		
Tilt/Swivel Stand	and Attached(), Detached (O)			
	Attached(O), Detached()			
	Attached or Detac	hed		

Specifications

Preset Modes (Resolution)

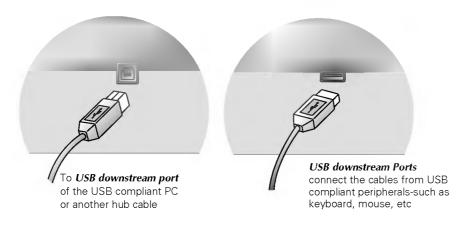
D	isplay Mode	es (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VESA	640 x 480	43.269	85
2	VESA	800 x 600	53.674	85
3	VESA	1024 x 768	68.677	85
4	VESA	1280 x 1024	91.146	85

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 monitor 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 monitor has an integrated BUS-powered USB hub, allowing up to 2 other USB devices to be attached it.

USB connection

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





NOTE

- To activate the USB hub function, the monitor 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 monitor 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 monitor.

USB Specifications

USB standard

Downstream power supply

Rev. 1.1 complied BUS-powered hub
100mA for each (MAX)
12 Mbps (full), 1.5 Mbps (low)
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