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.
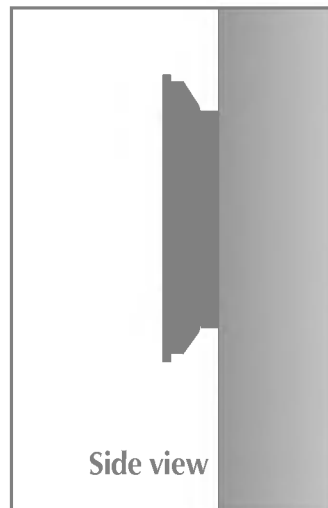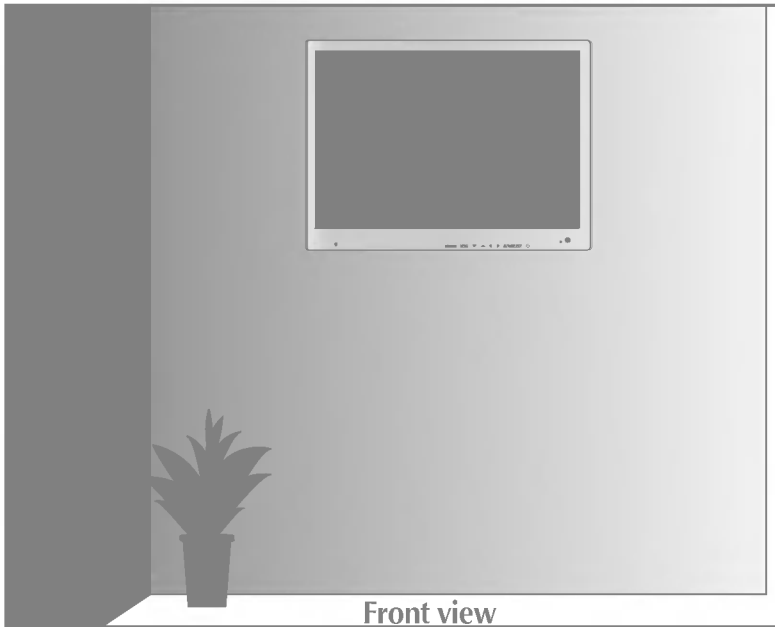
Mounting on wall

Please request professional installation staff approved by your sales agency to install or move the display.
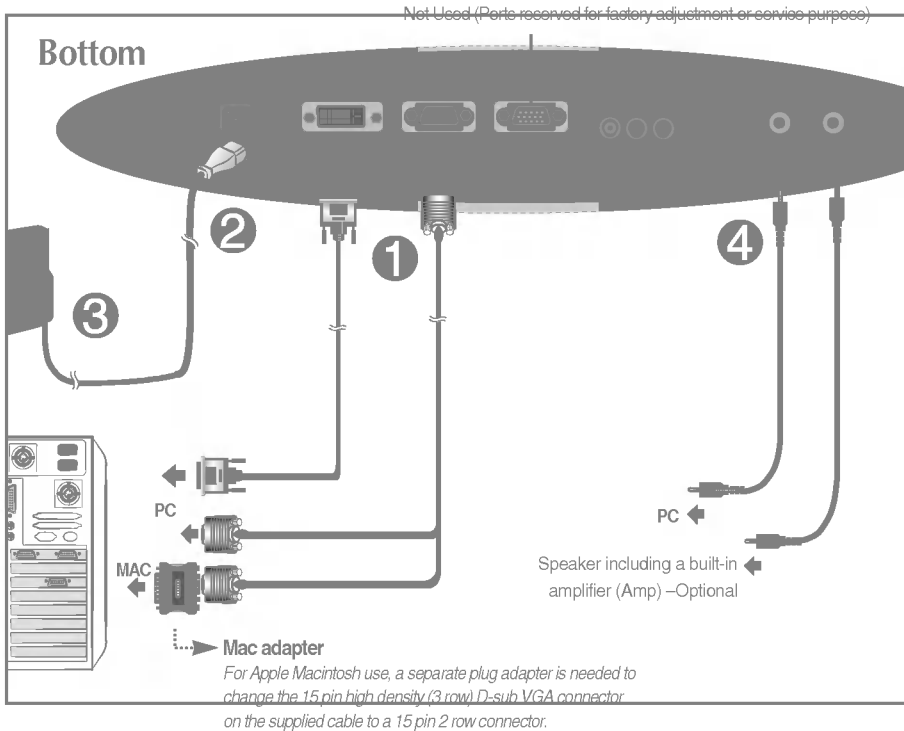Installing the display by yourself may cause safety hazards.
Display mounted on a wall is shown below.

Front view

Side view

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

Using the Computer

1. Connect the signal cable. When attached, tighten the thumbscrews to secure the connection.

2. Connect the power cord into a proper power outlet that is easily accessible and close to the display.

3. Connect the audio cable to the *LINE OUT jack of the PC sound card.

Not Used (Ports reserved for factory adjustment or service purpose)

Bottom

PC

PC

MAC

Speaker including a built-in amplifier (Amp) –Optional

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.

NOTE
- This is a simplified representation of the rear view.
- This rear view represents a general model; your display may differ from the view as shown.

*LINE OUT
A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.
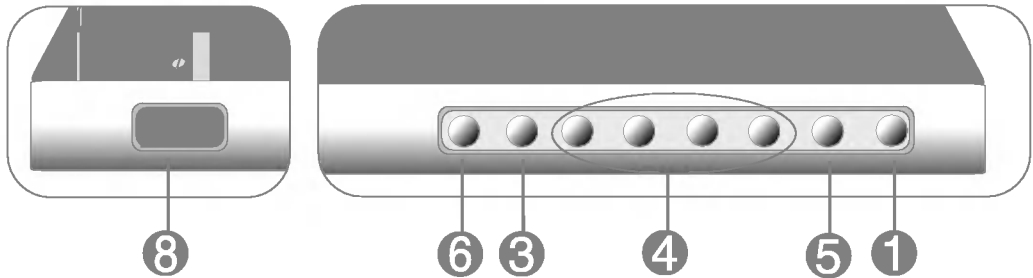
If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

Front Panel Controls

Bottom

①	**Power Button**	Use this button to turn the display on or off.
②	**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.
③	**MENU 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.
⑤	**AUTO/SELECT Button**	Use this button to enter a selection in the On Screen Display.
⑦	**Remote Control Sensor**	
⑧	**Power On/Off switch**	
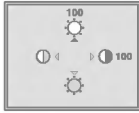
	④	▼▲ • Bring up Contrast and Brightness adjustment.
		VOLUME: ◄ ► Use these buttons to decrease or increase the volume level.

AUTO IN PROGRESS

⑤ **AUTO adjustment function**

When adjusting your display settings, always press the **AUTO/SELECT** 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).

---

⑥ **Source Selection:**

SOURCE → ▼▲ → AUTO/SELECT

DVI DIGITAL
DSUB ANALOG
V1 (AV)
V2 (S)

Use this button to select an input signal.
• DVI DIGITAL: DVI digital signal
• DSUB ANALOG: 15-pin D-sub analog signal
• V1 (AV): Composite video
• V2 (S): S video

CONTROLS LOCKED

CONTROLS UNLOCKED

CONTROLS LOCKED/UNLOCKED :

MENU and ►

This function allows you to secure the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button and ► button for 3 seconds: the message **"CONTROLS LOCKED"** appears.

You can unlock the OSD controls at any time by pushing the MENU button and ► button for 3 seconds:
the message **"CONTROLS UNLOCKED"** will appear.

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.

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

MENU → ▼▲ → AUTO/SELECT → ▼▲ ◄ ►
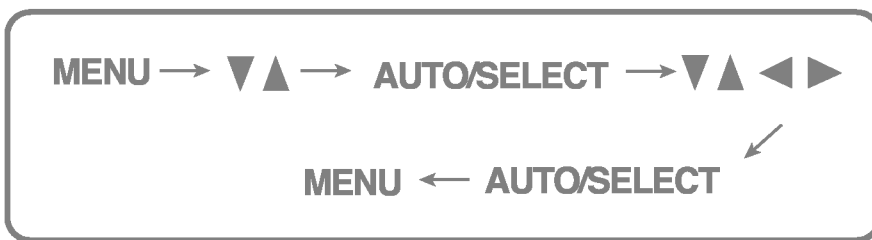
MENU ← AUTO/SELECT

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 **AUTO/ SELECT Button**.

3   Use the ▼▲ ◄ ► **Buttons** to adjust the item to the desired level.

4   Accept the changes by pressing the **AUTO/SELECT Button**.

5   Exit the OSD by Pressing the **MENU Button**.

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

Main menu	Sub-menu		A	D	Reference
BRIGHTNESS CONTRAST	BRIGHTNESS		●	●	To adjust the brightness and contrast of the screen
	CONTRAST		●		
COLOR ADJUSTMENT	PRESET	9300K	●		To customize the color of the screen
		6500K	●		
	R/G/B(User Color)		●		
IMAGE POSITION	V POSITION		●		To adjust the position of the screen
	H POSITION		●		
TRACKING	AUTO		●		To improve the clarity and stability of the screen
	CLOCK		●		
	PHASE		●		
SETUP	LANGUAGE		●	●	To customize the screen status for a user's operating environment
	IMAGE SIZE		●	●	
	OSD POSITION		●	●	
	TRANSPARENCY		●	●	
	ZOOM		●	●	
PIP	PIP ON/OFF		●	●	To adjust the PIP of the screen
	PIP SOURCE		●	●	
	PIP SIZE		●	●	
	PIP POSITION		●	●	
	PIP IMAGE		●	●	
	PIP SOUND		●	●	
● : Adjustable A : Analog Input D : Digital Input					

Main menu	Sub-menu		Reference
ADJUSTMENT	CONTRAST	●	To improve the clarity and stability of the screen
	BRIGHTNESS	●	
	SHARPNESS	●	
	COLOR	●	
AUDIO	VOLUME	●	To adjust the audio function
	BASS	●	
	TREBLE	●	
	MUTE	●	
	SOUND	●	
SETUP	LANGUAGE	●	To customize the screen status for a user's operating environment
	IMAGE SIZE	●	
	OSD POSITION	●	
	TRANSPARENCY	●	

● : 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.

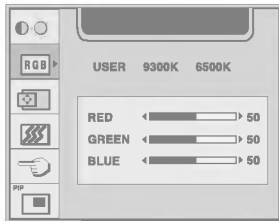## To adjust the screen when using the computer

To adjust the brightness and contrast of the screen
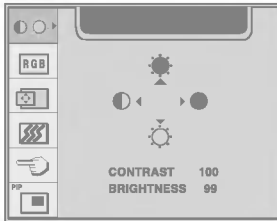
☀ ☼ **BRIGHTNESS**
To adjust the brightness of the screen.

◐ ◑ **CONTRAST**
To adjust the contrast of the screen.

To customize the color of the screen

USER **RED/GREEN/BLUE**
Set your own color levels.

9300K Select the screen color.
6500K
• 9300K: Slightly bluish white.
• 6500K: Slightly reddish white.
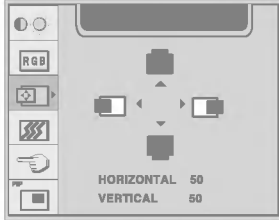
Horizontal Position
To move image left and right.

Vertical Position
To move image up and down.

HORIZONTAL 50
VERTICAL 50
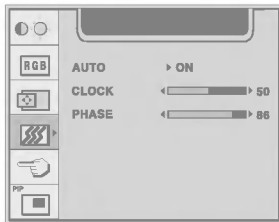
AUTO This function is suitable for analog signal input only. This button is for the automatic adjustment of the screen position, clock and phase.

AUTO   ▸ ON
CLOCK   ◂ ▭▭▭▭▭ ▸ 50
PHASE   ◂ ▭▭▭▭▭ ▸ 86

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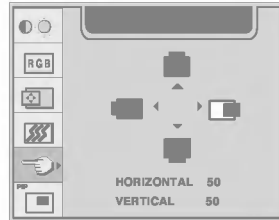
**LANGUAGE**   To choose the language in which the control names are displayed.

IMAGE SIZE   This function displays the image in its original size or enlarged size so as to fit in the full screen of the LCD panel.

OSD POSITION   To adjust position of the OSD window on the screen. Press the AUTO/SELECT button to display the submenu for OSD POSITION.

TRANSPARENCY   To adjust the transparency of the OSD menu screen.
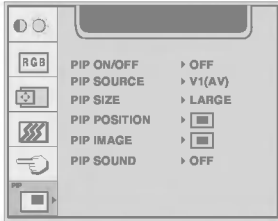
ZOOM   To adjust horizontal and vertical image size simultaneously.
If you want to move the zooming point, use the H/V POSITION function in the sub-menu. However, if the monitor turns off when zooming in and out the screen, the monitor will be returned to original screen.
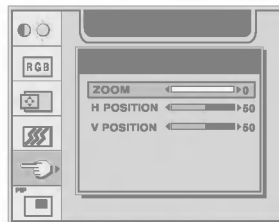
ELAPSED TIME
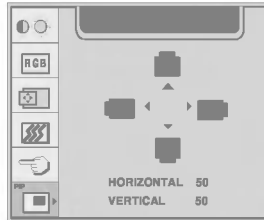To display the use time of display.

This PIP (Picture-in-Picture) function allows the image from the VCR or DVD to be displayed on a sub-screen while you are using a computer.

PIP ON/OFF   To select the sub-screen on/off.

PIP SOURCE   To select an input signal for PIP.

PIP SIZE   To adjust the size of the PIP screen: SMALL/LARGE

PIP POSITION   To adjust the position of PIP screen. Press the AUTO/SELECT button to display the submenu for PIP POSITION.

PIP IMAGE   To adjust the image of the PIP screen; Press the AUTO/SELECT button to display the submenu for PIP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level.

PIP CONTRAST
To adjust the contrast of the screen.

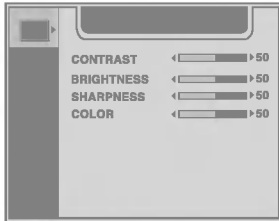**PIP BRIGHTNESS**
To adjust the brightness of the screen.

PIP SHARPNESS
To adjust the clearness of the screen.

PIP COLOR
To adjust the color to desired level.

PIP SOUND   To turn the PIP sound on/off.

To adjust the screen when using the VCR/DVD

CONTRAST | To adjust the contrast of the screen.

BRIGHTNESS | To adjust the brightness of the screen.

SHARPNESS | To adjust the clearness of the screen.

COLOR | To adjust the color to desired level.

VOLUME | To decrease or increase volume level.

BASS | To decrease or increase bass level.

TREBLE | To decrease or increase treble level.

MUTE | Used to select mute on (means sound off) and mute off (means sound on).

SOUND | To select the audio mode.
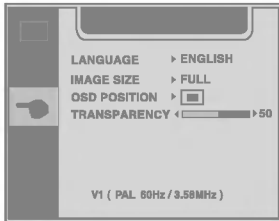
LANGUAGE   To choose the language in which the control names are displayed.

IMAGE SIZE   This function displays the image in its original size or enlarged size so as to fit in the full screen of the LCD panel.

OSD POSITION   To adjust position of the OSD window on the screen. Press the AUTO/SELECT button to display the submenu for OSD POSITION.
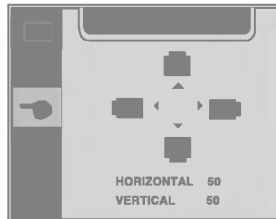
TRANSPARENCY   To adjust the transparency of the OSD menu screen.

Check the following before calling for service.

◉ **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 "CONTROLS 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 and ▶ button for 3 seconds: the message **"CONTROLS UNLOCKED"** will appear.

◉ **Display Position is incorrect.**	• Press the **AUTO/SELECT** 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 **AUTO/SELECT** 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 **AUTO/SELECT** 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.

◉ **"IMAGE SIZE" function on OSD menu does not work?**	• Check if the resolution is set as 1280x768 or less than 512x360. The optimal resolution is 1280x768 and the image is fully displayed on the monitor and is not converted as 1:1 image size. If the resolution is less than 512x360, the image size is smaller than that of the OSD's and is also not converted as 1:1 image size.

◉ **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.

◉ **No sound.**	• Check if the audio cable is correctly connected. • Check the volume level.
◉ **Sound is too high pitched or too low piched.**	• Adjust the **TREBLE** to an appropriate level. • Adjust the **BASS** to an appropriate level.
◉ **Sound level is too low.**	• Check the volume level.

Display	30 inches (76.2cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating 30 inches viewable 0.5025 x 0.5025 mm pixel pitch	
Sync Input	Horizontal Freq.	Analog:30 - 66kHz (Automatic) Digital:30 - 63kHz (Automatic)
	Vertical Freq.	56 - 85Hz (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 (Digital) Composite video S video
	Input Form	RGB Analog (0.7Vp-p/75ohm), Digital, CVBS, Y/C
	Max	Analog:VESA 1280 x 1024@60Hz Digital:VESA 1024 x 768@75Hz
	Recommend	Analog:VESA 1280 x 768@60Hz Digital:VESA 1024 x 768@60Hz
	DDC 2B	
	Normal	:165W
	Stand-by/Suspend	≤ 5W
	DPMS Off	≤ 5W
	Switch Off	≤ 1W
	Width	73.4 cm / 28.90 inches
	Height	9.6 cm / 3.78 inches
	Depth	48.7 cm / 19.17 inches
	Net	18.0 kg (39.68 lbs)
	AC 100-240V 50 /60Hz 1.8A	

Environmental Conditions	Operating Conditions		
	Temperature	10℃ to 35 ℃	
	Humidity	10 % to 80 % non-Condensing	
	Storage Conditions		
	Temperature	-20℃ to 60 ℃	
	Humidity	5 % to 95 % non-Condensing	
	Attached( ), Detached (O)		
	Wall-outlet type or PC-outlet type		

Display Modes (Resolution)

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	640 x 480	43.269	85
6	VESA	800 x 600	37.879	60
7	VESA	800 x 600	46.875	75
8	VESA	800 x 600	53.674	85
9	MAC	832 x 624	49.725	75
10	VESA	1024 x 768	48.363	60
11	VESA	1024 x 768	60.123	75
*12	VESA	1280 x 768	47.700	60
*13	VESA	1280 x 1024	63.981	60

* Analog only

Signal Connector Pin Assignment
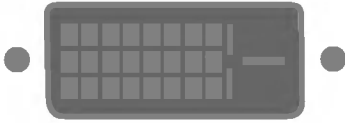
■ DVI-D Connector

1	T. M. D. S. Data2-		16	Hot Plug Detect
2	T. M. D. S. Data2+		17	T. M. D. S. Data0-
3	T. M. D. S. Data2/4 Shield		18	T. M. D. S. Data0+
4	T. M. D. S. Data4-		19	T. M. D. S. Data0/5 Shield
5	T. M. D. S. Data4+		20	T. M. D. S. Data5-
6	DDC Clock		21	T. M. D. S. Data5+
7	DDC Data		22	T. M. D. S. Clock Shield
8	Analog Vertical Sync.		23	T. M. D. S. Clock+
9	T. M. D. S. Data1-		24	T. M. D. S. Clock-
10	T. M. D. S. Data1+			
11	T. M. D. S. Data1/3 Shield			
12	T. M. D. S. Data3-			
13	T. M. D. S. Data3+			
14	+5V Power			
15	Ground (return for +5V, H. Sync. and V. Sync.)			

T. M. D. S. (Transition Minimized Differential Signaling)

For detailed instructions of each button on the remote control, refer to the appropriate pages of this manual.

Remote Control

MUTE Button
To select mute on or off.

SOURCE Selection Button

MENU Button

VOLUME(◄ ►) Buttons

SET Button

Number buttons

Power Button

PIP Button
The sub-screen is changed in the order shown below.
: SMALL -> LARGE -> OFF

AV Button

DOWN/UP (▼▲) Buttons

AUTO Button
•This function is to automatically adjust your display image to the ideal settings for the current screen resolution size (display mode). It is available to the PC signal inputs only.

VCR Buttons
These buttons are available for LG VCR remote controls only. Refer to the Owner's Manual for your VCR .

* : no function

Insert the batteries into the remote control to operate the monitor.

Preparing the Remote Control

1. Open the battery cover.

2. Insert batteries (AAA size).

Make sure to match the + and - on the batteries to the marks inside the battery compartment.

3. Close the cover.
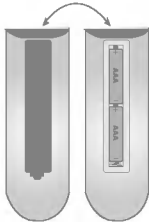
> **Note**
> ■ Do not insert the batteries into the remote control in the wrong direction.
> ■ Do not charge, heat, open, or short-circuit the batteries. Also do not throw the batteries into the fire.
> ■ Do not use different types of batteries together, nor mix old and new batteries.

This section shows you how to use the remote control.

Operating with the Remote Control

Point the remote control at the remote sensor and press the buttons.

30° 30°
Within about 23ft (about 7m)
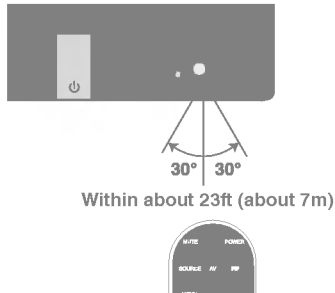
Distance : About 23 ft (7 m) from the front of the remote sensor.

Angle : About 30° in each direction of the front of the remote sensor.

Do not expose the sensor of remote control in the monitor to a strong light source such as direct sunlight or illumination. If so, may not be able to operate the monitor with the remote control.
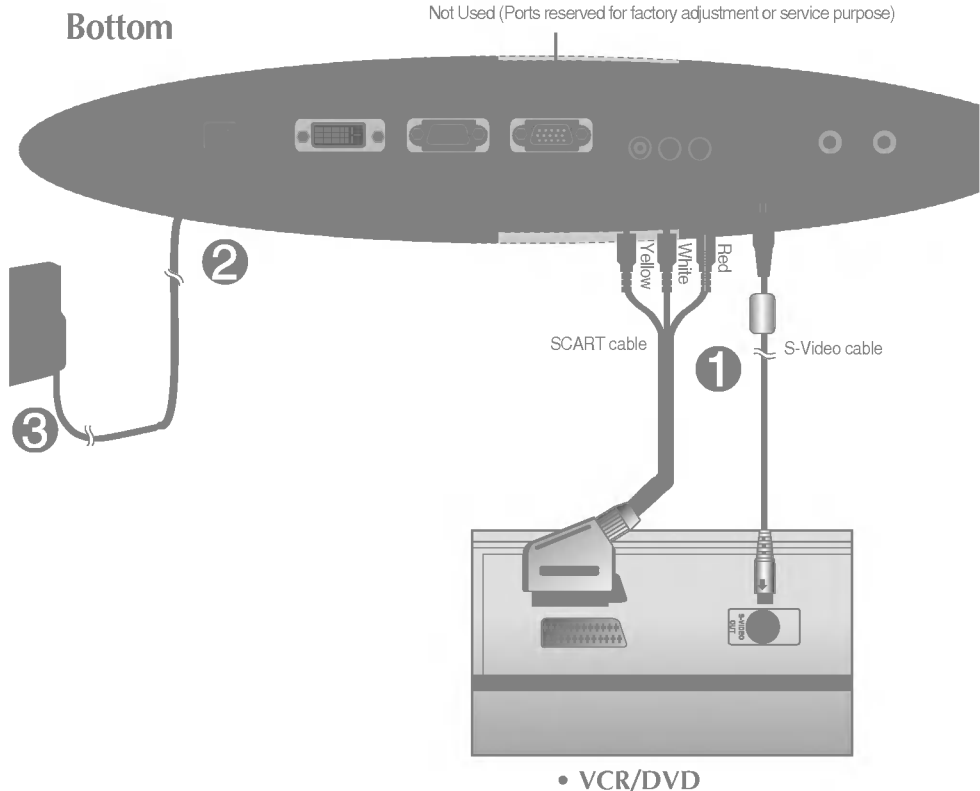
> **Note**
> ■ Do not drop the remote control or handle it roughly.
> ■ Do not leave the remote control in extremely hot or humid conditions.
> ■ Do not expose the remote control to water or anything wet.

Connecting the VCR/DVD

1. Connect the each audio/video output jack of the VCR/DVD to the corresponding input port as shown on the Display.
If you connect the S-Video input port to external equipment, you can have an improved definition image.

Bottom

Not Used (Ports reserved for factory adjustment or service purpose)

Yellow
White
Red

SCART cable

S-Video cable

• **VCR/DVD**

2. Select an input signal.

DVI DIGITAL
DSUB ANALOG
V1 (AV)
V2 (S)

SOURCE → ▼▲ → AUTO/SELECT

Press the SOURCE button on the front panel of the display to select an input.

• V1(AV): Composite video
• V2(S): S video