

# **User' s Guide**

Model : LB500J

Model Name : FLATRON L1510S

# FCC Warning

## Class B Computing Device

### Information to the User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

### FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: In order for an installation of this product to maintain compliance with the limits for a Class B device, shielded cables must be used.

## Important Precautions

**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.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

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.

## Important Precautions

### 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

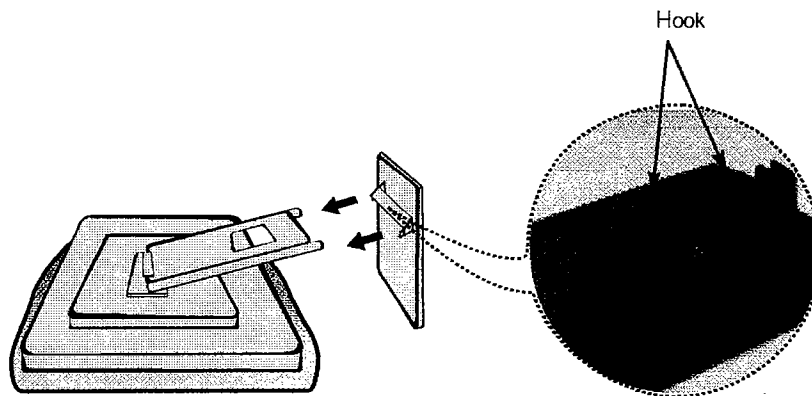
- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

## Connecting the Display

- 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

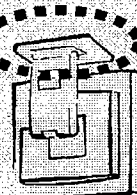
1. Align the hooks on the stand base with the matching slots in the base of the monitor.
2. Insert the hooks into slots.



#### 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.

Stand Base



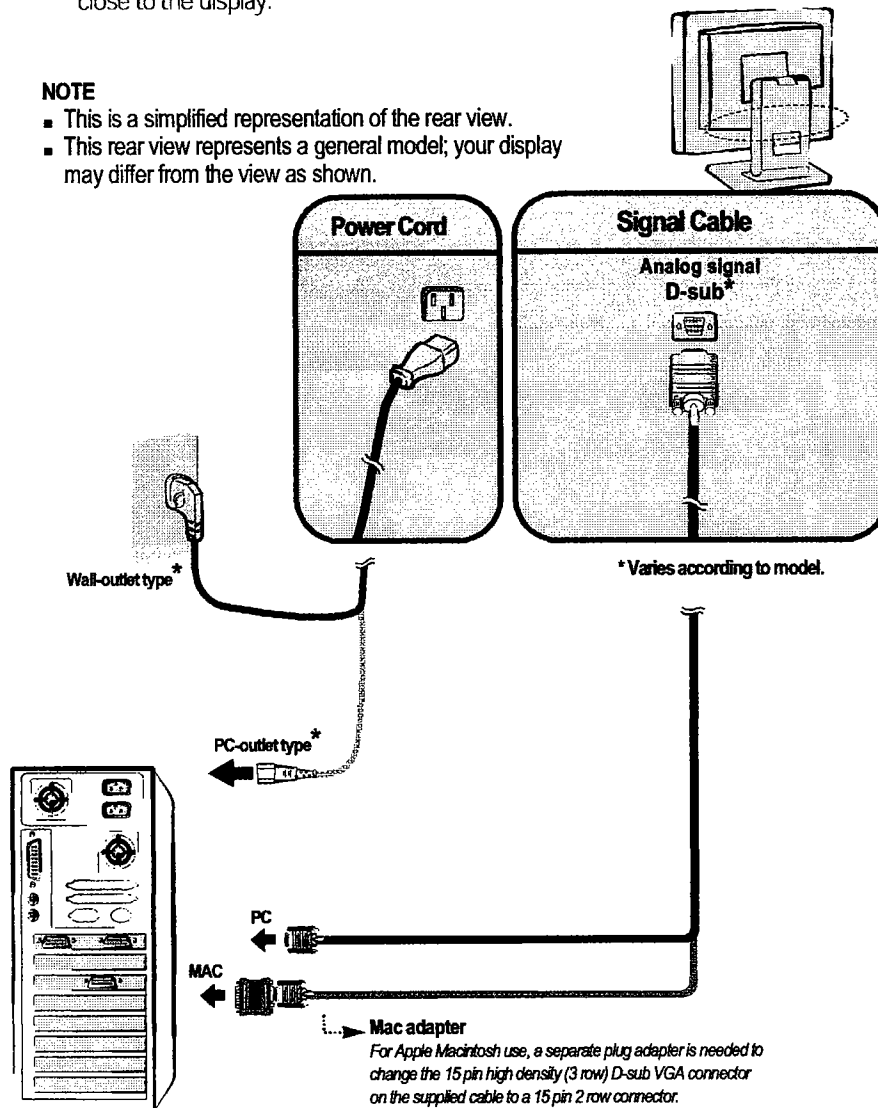
## Connecting the Display

### 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.

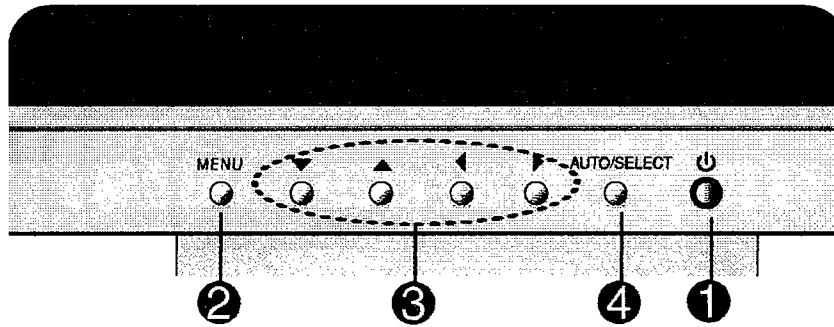
#### NOTE

- 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.



## Control Panel Functions

### Front Panel Controls



Control	Function
<b>1</b> Power Button	Use this button to turn the display on or off.
<b>Power (DPMS) Indicator</b>	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.
<b>2</b> MENU Button	Use this button to enter or exit the On Screen Display.
<b>3</b> <b>▼▲◀▶</b> Buttons	Use these buttons to choose or adjust items in the On Screen Display.
<b>4</b> AUTO/SELECT Button	Use this button to enter a selection in the On Screen Display.

Control	Direct Access Function
	<b>3</b> <b>▼▲◀▶</b> Bring up Contrast and Brightness adjustment.
	<b>4</b> <b>AUTO adjustment function</b> When adjusting your display settings, always press the <b>AUTO/SELECT</b> 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 <b>1024x768</b> .

## On Screen Display (OSD) Control Adjustment

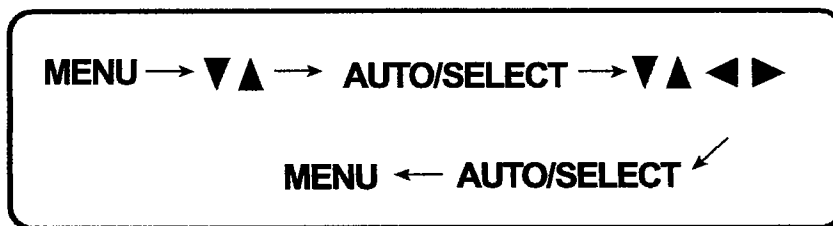
### Screen Adjustment

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:



- 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.



## On Screen Display(OSD) Selection and Adjustment

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

Main menu	Sub menu		Reference
BRIGHTNESS CONTRAST	BRIGHTNESS		To adjust the brightness and contrast of the screen
	CONTRAST		
COLOR	PRESET	9300K	To customize the color of the screen
		6500K	
	R/G/B(User Color)		
POSITION	V POSITION		To adjust the position of the screen
	H POSITION		
TRACKING	CLOCK		To improve the clarity and stability of the screen
	PHASE		
SETUP	LANGUAGE		To customize the screen status for a user's operating environment
	OSD POSITION		
	BEEP*		
● : Adjustable			

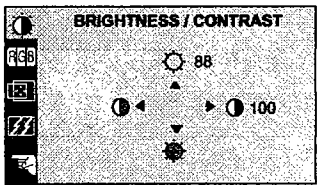


### NOTE

- The order of icons may differ depending on the model (A7~A9).
- \* This function is available for designated models only.

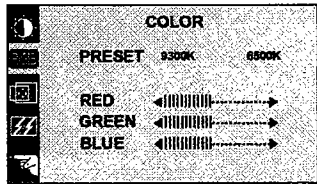
# On Screen Display(OSD) Selection and Adjustment

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.

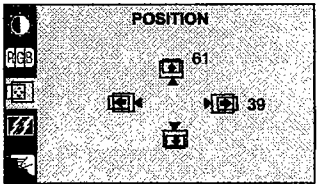


## To adjust the brightness and contrast of the screen

OSD Adjust	Description
	<p> <b>Brightness</b> To adjust the brightness of the screen.</p> <p> <b>Contrast</b> To adjust the contrast of the screen.</p>

## To customize the color of the screen

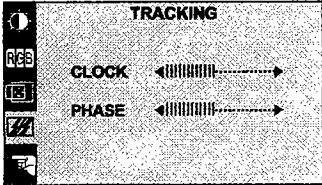
OSD Adjust	Description
	<p><b>PRESET 9300K/6500K</b> Select the screen color.</p> <ul style="list-style-type: none"> <li>• 9300K: Slightly bluish white.</li> <li>• 6500K: Slightly reddish white.</li> </ul> <p><b>RED GREEN BLUE</b> Set your own color levels.</p>

## To adjust the position of the screen

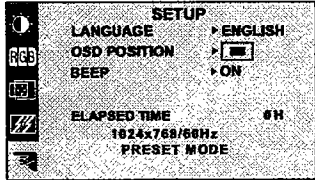
OSD Adjust	Description
	<p> <b>Vertical Position</b> To move image up and down.</p> <p> <b>Horizontal Position</b> To move image left and right.</p>

## On Screen Display(OSD) Selection and Adjustment

### To improve the clarity and stability of the screen

OSD Adjust	Description
 <p>The image shows an OSD menu titled 'TRACKING'. It has two main options: 'CLOCK' and 'PHASE'. Each option has a horizontal bar with a dashed line and arrows at both ends, indicating an adjustable range. On the left side of the menu, there are four icons: a circle with a dot, a square with 'RGB', a square with 'OSD', and a square with a lightning bolt.</p>	<p><b>CLOCK</b> To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.</p> <p><b>PHASE</b> To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters.</p>

### To customize the screen status for a user's operating environment

OSD Adjust	Description
 <p>The image shows an OSD menu titled 'SETUP'. It has several options: 'LANGUAGE' with a right-pointing arrow and 'ENGLISH' next to it; 'OSD POSITION' with a right-pointing arrow and a small square icon next to it; 'BEEP' with a right-pointing arrow and 'ON' next to it; 'ELAPSED TIME' with a right-pointing arrow and '#H' next to it; and 'PRESET MODE' at the bottom. On the left side of the menu, there are four icons: a circle with a dot, a square with 'RGB', a square with 'OSD', and a square with a lightning bolt.</p>	<p><b>LANGUAGE</b> To choose the language in which the control names are displayed.</p> <p><b>OSD POSITION</b> To adjust position of the OSD window on the screen.</p> <p><b>BEEP*</b> To select beep ON or OFF.</p> <p><b>ELAPSED TIME</b> To display the use time of display.</p>

#### NOTE

\* This function is available for designated models only.

PAGE A1

## Troubleshooting

Check the following before calling for service.

<b>No image appears</b>	
<ul style="list-style-type: none"><li>● <b>Is the power cord of the display connected?</b></li></ul>	<ul style="list-style-type: none"><li>• Check and see if the power cord is connected properly to the power outlet.</li></ul>
<ul style="list-style-type: none"><li>● <b>Is the power indicator light on?</b></li></ul>	<ul style="list-style-type: none"><li>• Press the Power button.</li></ul>
<ul style="list-style-type: none"><li>● <b>Is the power on and the power indicator green?</b></li></ul>	<ul style="list-style-type: none"><li>• Adjust the brightness and the contrast.</li></ul>
<ul style="list-style-type: none"><li>● <b>Is the power indicator amber?</b></li></ul>	<ul style="list-style-type: none"><li>• If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.</li></ul>
<ul style="list-style-type: none"><li>● <b>Do you see an "INPUT SIGNAL OUT OF RANGE" message on the screen?</b></li></ul>	<ul style="list-style-type: none"><li>• 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.</li></ul>
<ul style="list-style-type: none"><li>● <b>Do you see a "NO SIGNAL" message on the screen?</b></li></ul>	<ul style="list-style-type: none"><li>• This message appears when the signal cable between your PC and your display is not connected. Check the signal cable and try again.</li></ul>

<b>Have you installed the display driver?</b>	
<ul style="list-style-type: none"><li>● <b>Have you installed the display driver?</b></li></ul>	<ul style="list-style-type: none"><li>• 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: <a href="http://www.lge.com">http://www.lge.com</a>.</li></ul>

**Display image is incorrect**

● **Display Position is incorrect.**

● **On the screen background, vertical bars or stripes are visible.**

● **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, adjust the image position using the H position and V position icon in the on screen display.

• 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.

• 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.

## Specifications

<b>Display</b>	15 inches (38.1cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating 15 inches viewable 0.297mm pixel pitch	
<b>Sync Input</b>	<b>Horizontal Freq.</b>	31 - 61kHz (Automatic)
	<b>Vertical Freq.</b>	56 - 75Hz (Automatic)
	<b>Input Form</b>	Separate TTL, Positive/Negative
<b>Video Input</b>	<b>Signal Input</b>	15 pin D-Sub Connector
	<b>Input Form</b>	RGB Analog (0.7Vp-p/75ohm)
<b>Resolution</b>	<b>Max</b>	VESA 1024 x 768@75Hz
	<b>Recommend</b>	VESA 1024 x 768@60Hz
<b>Plug&amp;Play</b>	DDC 2B	
<b>Power Consumption</b>	<b>Normal</b>	≤ 33W
	<b>Stand-by/Suspend</b>	≤ 3W
	<b>Power Off</b>	≤ 3W
<b>Dimensions &amp; Weight (with tilt stand)</b>	<b>Width</b>	35.60 cm / 14.02 inches
	<b>Height</b>	35.98 cm / 14.17 inches
	<b>Depth</b>	15.17 cm / 5.97 inches
	<b>Net</b>	4.0 kg (8.82 lbs)
<b>Tilt Range</b>	<b>Tilt</b>	-5° ~ 30°
<b>Power Input</b>	AC 100-240V 50/60Hz 0.6A	
<b>Environmental Conditions</b>	<b>Operating Conditions</b>	
	<b>Temperature</b>	10°C to 35 °C
	<b>Humidity</b>	10 % to 80 % non-Condensing
	<b>Storage Conditions</b>	
	<b>Temperature</b>	-20°C to 60 °C
	<b>Humidity</b>	5 % to 95 % non-Condensing
<b>Tilt Stand</b>	Attached( <input type="checkbox"/> ), Detached ( <input type="checkbox"/> )	
<b>Signal cable</b>	Attached( <input type="checkbox"/> ), Detached ( <input type="checkbox"/> )	
<b>Power cord</b>	Wall-outlet type or PC-outlet type	
<b>Regulations</b>	TCO99	

### NOTE

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

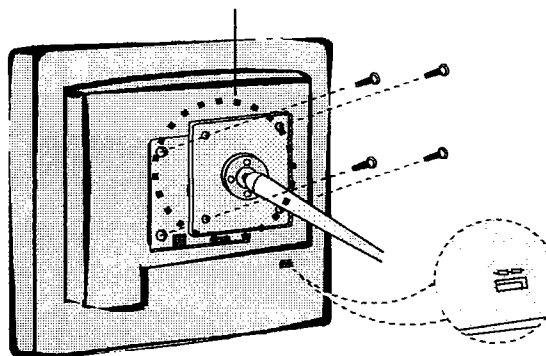
## Specifications

### Preset Modes (Resolution)

	Display Modes (Resolution)		Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VGA	640 x 350	31.468	70
2	VGA	720 x 400	31.468	70
3	VGA	640 x 480	31.469	60
4	VESA	640 x 480	35.000	66.67
5	VESA	640 x 480	37.861	72.8
6	VESA	640 x 480	37.500	75
7	VESA	800 x 600	35.156	56.25
8	VESA	800 x 600	37.879	60
9	VESA	800 x 600	48.077	72
10	VESA	800 x 600	46.875	75
11	MAC	832 x 624	49.725	75
12	VESA	1024 x 768	48.363	60
13	VESA	1024 x 768	56.476	70
14	VESA	1024 x 768	60.023	75

#### VESA wall mounting

Connected to another object (stand type and wall-mounted type - optional)



#### Kensington Security Slot

Connected to a locking cable that can be purchased separately at most computer stores