ATTACHMENT J – USER'S MANUAL

LG Electronics Inc.

FLATRON
775

User's Guide
Benutzerhandbuch
Manuel d'utilisation
Guida Utente
Guia del Usuario
Manual do preprietário
Handleiding

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this information to your dealer when you require service.

P/NO : 3828TUL132A (S-0009)

Printed in Korea

LG

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.

Contents

Introduction

ENGLISH

Thank you for purchasing a high resolution monitor. It will give you high resolution performance and convenient reliable operation in a variety of video operating modes.

Features

- The monitor is a 17 inches (16.0 inches viewable) intelligent, microprocessor based monitor compatible with most analog RGB (Red, Green, Blue) display standards, including IBM PC*, PS/2*, Apple*, Macintosh*, Centris*, Quadra*, and Macintosh II family.
- The monitor provides crisp text and vivid color graphics with VGA, SVGA, XGA, and VESA Ergonomic modes (non-interlaced), and most Macintosh compatible color video cards when used with the appropriate adaptor. The monitor's wide compatibility makes it possible to upgrade video cards or software without purchasing a new monitor.
- Digitally controlled auto-scanning is done with the micro-processor for horizontal scan frequencies between 30 and 70kHz, and vertical scan frequencies between 50-160Hz.
- This monitor is capable of producing a maximum horizontal resolution of 1280 dots and a maximum vertical resolution of 1024 lines.
- The microprocessor-based digital controls allow you to adjust conveniently a variety of image controls by using the OSD (On Screen Display)
- Plug and play capability if supported by your system.
- This monitor has DDC 2B function.*
- Compliant with the following regulated specifications :*
  - EPA ENERGY STAR
  - Swedish MPR II
  - Swedish TCO'99

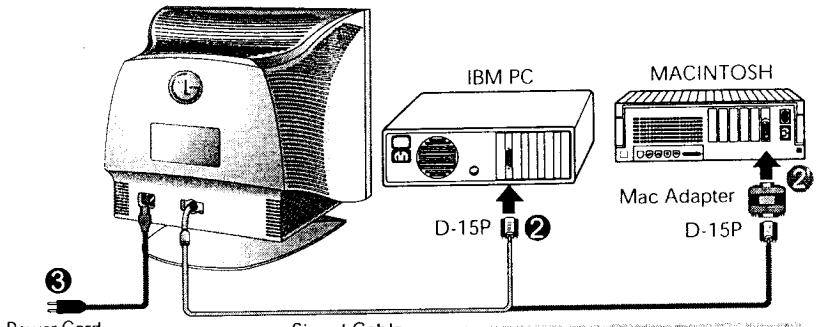
For detailed information, please refer to the **Reference Guide provided.*

Connecting the Monitor

On the back of the monitor are two plug-in connections; one for the AC power cord, and the other for the signal cable from the video card.

1. Power off both the monitor and PC.
2. Connect the 15 pin VGA connector of the supplied signal cable to the output VGA video connector on the PC and the matching input connector on the rear of the monitor. The connectors will mate only one way. If you cannot attach the cable easily, turn the connector upside down and try again. When mated, tighten the thumbscrews to secure the connection.
2. Locate the appropriate MAC to VGA adapter block at your local computer store. This adapter changes the high density 3 row 15 pin VGA connector to the correct 15 pin 2 row connection to mate with your MAC. Attach the other end of the signal cable to the side of the adapter block with 3 rows.

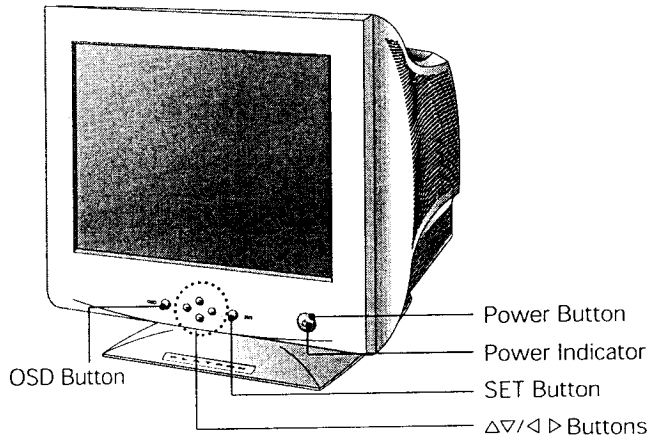
   Connect the attached adapter block/signal cable to the video output on your MAC.
3. One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.
4. Power ON the PC, then the monitor.
5. If you see the SELF DIAGNOSTICS message, check the signal cable and connectors.
6. After using the system, power OFF the monitor, then the PC.



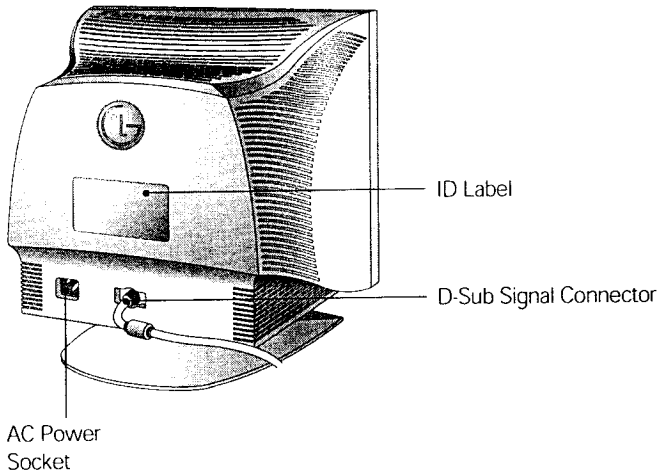
* **NOTE** : For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

Location and Function of Controls

Front View



Rear View



Control Panel Function

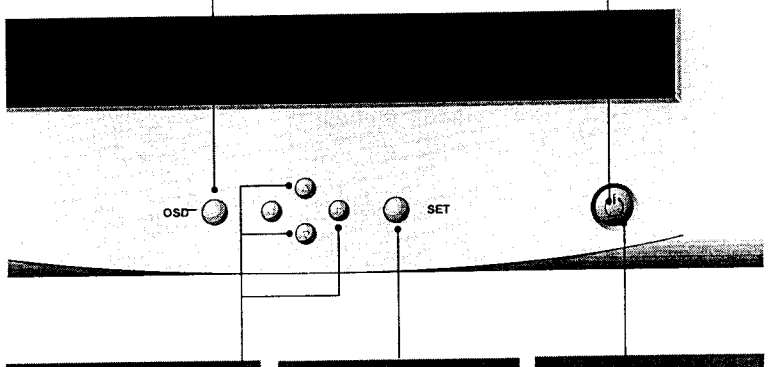
Front Panel Controls

OSD Button

Use this button to enter or exit the on screen display.

Power Indicator

The power indicator light is shown in the power button. This indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/ suspend/power off), this indicator color changes to amber.



▲▼/◀ ▶ Buttons

Use these buttons to choose or adjust items in the on screen display.

SET Button

Use this button to enter a selection in the on screen display.

Power Button

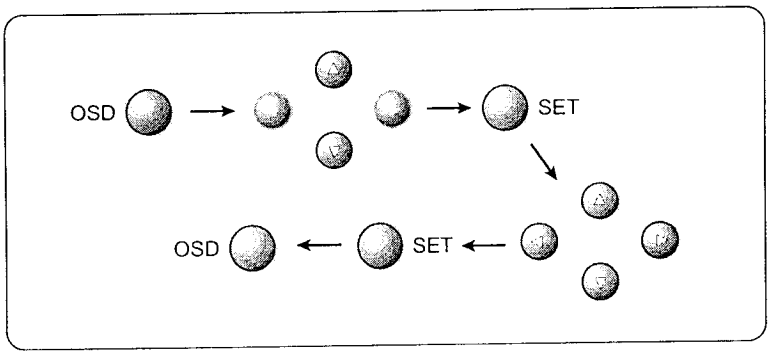
Use this button to turn the monitor on or off.

On Screen Display (OSD) Control Adjustment

Making adjustments to the image size, position and operating parameters of the monitor are quick and easy with the On Screen Display Control system. A quick example is given below to familiarize you with the use of the controls. 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 adjustment.

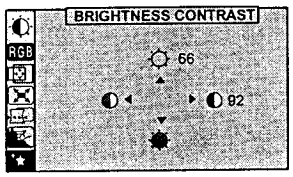
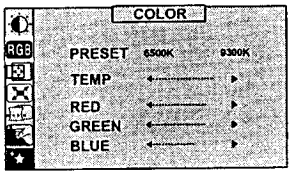
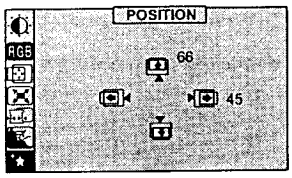
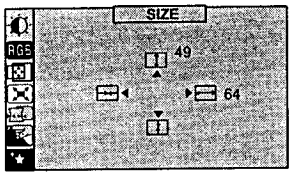
To make adjustments in the On Screen Display, follow these steps:



1. Press the **OSD Button**, then the main menu of the OSD appears.
2. To acces a control, use the △ or ▽ **Buttons**. When the icon you want becomes highlighted, press the **SET Button**.
3. Use the △▽/◁ ▷ **Buttons** to adjust the item to the desired level.
4. Accept the changes by pressing the **SET Button**.
5. Exit the OSD by Pressing the **OSD Button**.

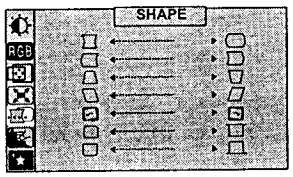
On Screen Display(OSD) Selection and Adjustment

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

OSD Adjust	Description
	**Brightness** Used to adjust the brightness of the screen. **Contrast** Adjust the display to the contrast desired.
	**PRESET** **6500K/ 9300K** To appear the displays color temperature. • 6500K:Slightly reddish white. • 9300K:Slightly bluish white. **TEMP** User easily color set without adjustment Red, Green and Blue (R/G/B). **RED** To set your own color levels. **GREEN** To set your own color levels. **BLUE** To set your own color levels.
	**Vertical Position** To move image up and down. **Horizontal Position** To move picture image left and right.
	**Vertical Size** To adjust image height. **Horizontal Size** To adjust image width.

On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description



Side Pincushion
To correct the bowing in and out of the image.

Side pincushion balance
To correct the balance of both sides bowling.

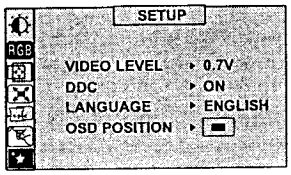
Trapezoid
To correct geometric distortion.

Parallelogram
This control adjusts for a skewing of the screen image.

Tilt
To correct image rotation.

Corner Top
To correct the irregular distortion of the displayed image.

Corner Bottom
To correct the irregular distortion of the displayed image.

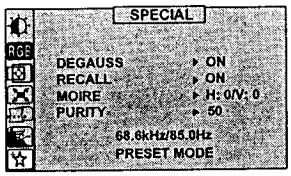


VIDEO LEVEL This item is used to select the monitor's input signal level. The normal level used for most PC's is 0.7V. When the screen suddenly gets brightened or blurry, please select 1.0V and try again.

DDC To select the DDC function(ON/OFF).

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

OSD POSITION To adjust position of the OSD window on the screen.



DEGAUSS To manually demagnetize the screen which may show some image or color incorrectly.

RECALL If the monitor is operating in a factory preset mode, this control will reset the image to the factory preset mode.

MOIRE This item allows you to reduce the 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. The screen image may shake slightly while the moire reduction function is on.

PURITY Use to adjust the overall purity of the image if the color appears uneven.

Video Memory Modes

The monitor has 35 memory locations for display modes, 10 of which are factory preset to popular video modes.

Display Modes (Resolution)

	Display Modes (Resolution)		Horizontal Freq.(kHz)	Vertical Freq.(Hz)
1	VESA	640 x 480	37.50	75
2	VESA	800 x 600	46.88	75
3	VESA	800 x 600	53.68	85
4	VESA	1024 x 768	68.677	85
5	VESA	640 x 400	31.47	70
6	VESA	640 x 480	31.47	60
7	VESA	800 x 600	37.88	60
8	VESA	640 x 480	43.27	85
9	VESA	1024 x 768	60.02	75
10	VESA	1280 x 1024	63.98	60

User Modes

- Modes 11-35 are empty and can accept new video data. If the monitor detects a new video mode that has not been present before or is not one of the preset modes, it stores the new mode automatically in one of the empty modes starting with mode 11.

  If you use up the 25 blank modes and still have more new video modes, the monitor replaces the information in the user modes starting with mode 11.

Recalling Display Modes

- When your monitor detects a mode it has seen before, it automatically recalls the image settings you may have made the last time you used that mode.

  You may, however, manually force a recall of each of the 10 preset modes by pressing the Recall button. All preset modes are automatically recalled as the monitor senses the incoming signal.

  The ability to recall the preset modes is dependent on the signal coming from your PC's video card or system. If this signal does not match any of the factory modes, the monitor automatically sets itself to display the image.

Troubleshooting

Check the following before calling for service.

SELF DIAGNOSTICS message.

- The signal cable is not connected, or is loose. Check and secure the connection.

OUT OF FREQUENCY message appears.

- The frequency of the signal from the video card is outside the operating range of the monitor.

  * Horizontal Frequency : 30-70kHz
  * Vertical Frequency : 50-160Hz

  Use the graphics board's utility software to change the frequency setting (Refer to the manual for graphics board).

The power LED is illuminated amber.

- Display power management mode.
- There is no active signal coming from the PC.
- The signal cable is not fastened securely.
- Check the computer power and graphics adapter configuration.

The image on the SCREEN is not centered, or too small, or not a rectangle shape.

- Image adjustment not been done yet in the current operating mode. Use the OSD, SET and △▽/◁ ▷ buttons to set the image to your liking.

The monitor doesn't enter the power saving off mode (Amber).

- Computer video signal is not VESA DPMS standard. Either the PC or the video controller card is not using the VESA DPMS power management function.

An abnormal picture is displayed on the screen. For example, the upper part of the picture may be missing or dark.

- If using certain non-VESA Standard video card, an abnormal picture may be displayed. Try setting it to one of the factory preset modes, or selecting to a resolution and refresh rate within the specification limits of the monitor.

NOTE

- If the power indicator(LED) light is blinking amber, may result in abnormal condition of the monitor.
- Then press a power ON/OFF button on the front panel control and call your service technician for more information.

Specifications

Picture Tube	17 inch (16.0 inches viewable)	
	90 degree deflection	
	0.24mm Slot pitch	
	W-ARAS(Wide Anti-Reflective Anti-Static) coating	
Sync Input	Horizontal Freq.	30 - 70kHz (Automatic)
	Vertical Freq.	50 - 160Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative
	Signal Input	15 pin D-Sub Connector
Video Input	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive
	Resolution(max)	1280 x 1024@60Hz
Power Consumption	Normal	≤ 105W
	Stand-by/Suspend	≤ 15W
	Power Off	≤ 5W
Dimensions (with tilt/ swivel stand)	Width	41.5 cm / 16.3 inches
	Height	43.5 cm / 17.1 inches
	Depth	43.9 cm / 17.3 inches
Power Input	Europe	AC 200-240V 50Hz 1.5A
	Others	AC 100-240V 50/60Hz 2.0A
	The products should be used according to the Power requirements of each ID LABEL.	
Weight	Net	19.2 kg (42.31 lbs)
Environmental Conditions	Operating Condition	
	Temperature	10 °C to 40 °C
	Humidity	10 % to 90 % non-Condensing
	Storage Condition	
	Temperature	0 °C to 60 °C
	Humidity	5 % to 90 % non-Condensing

NOTE

- Information in this document is subject to change without notice and does not represent a commitment on the part of LG Electronics Inc.