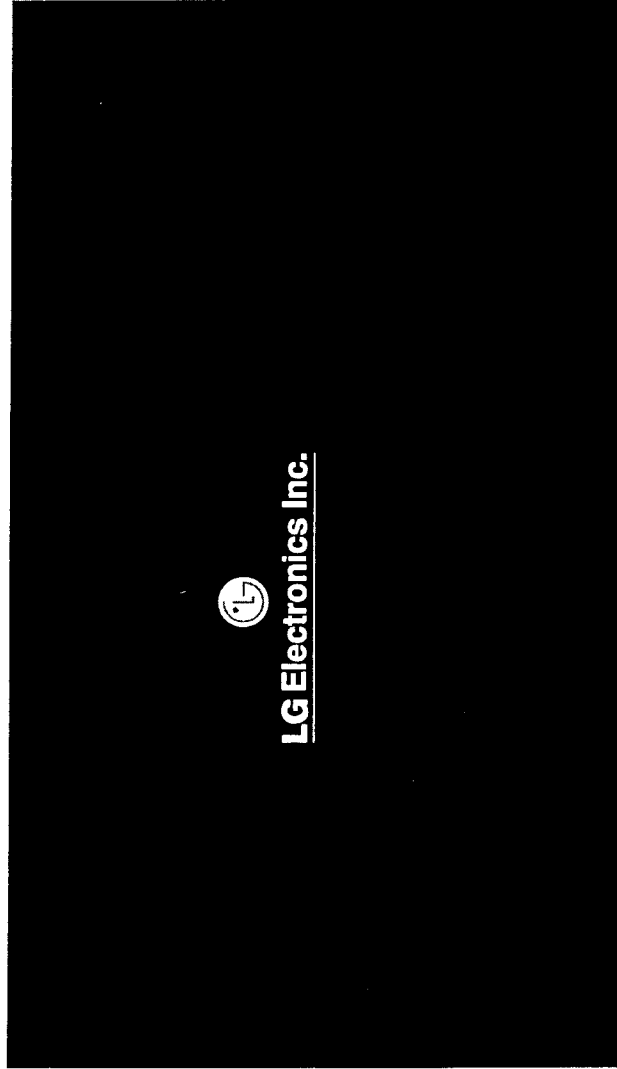


# StudioWorks 795E

## User's Guide



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 : 3828TUL137A (S-0010)

Printed in Korea



# 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.

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## Introduction

**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.**

ENGLISH

### Features

- The monitor is a 17 inches (15.9 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 96kHz, and vertical scan frequencies between 50-160Hz.
- This monitor is capable of producing a maximum horizontal resolution of 1600 dots and a maximum vertical resolution of 1200 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 1 and 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 .*

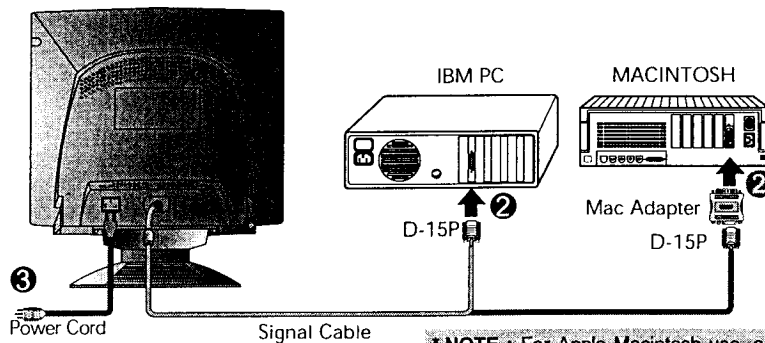
## Connecting the Monitor

**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. 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.

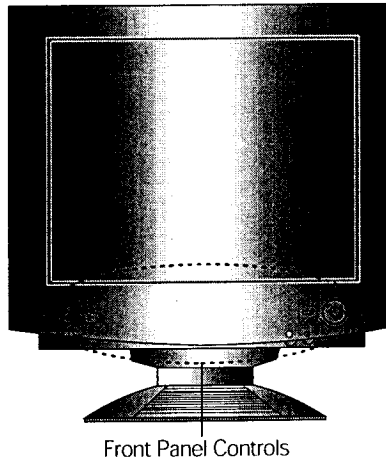
- 3 One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.
- 4 Power ON the PC, then the monitor.
- 5 If you see the SELF DIAGNOSTICS message, check the signal cable and connectors.
- 6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



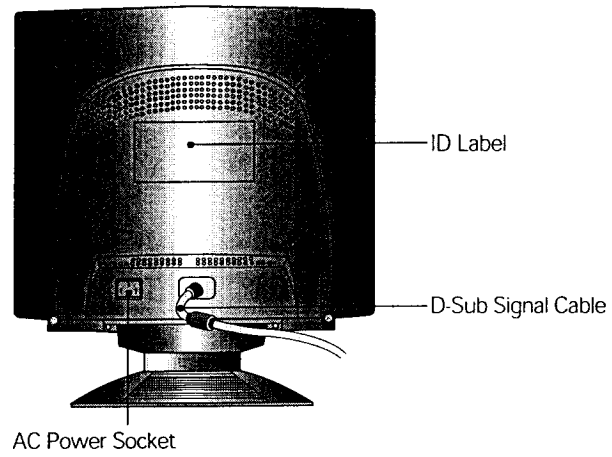
\* NOTE : For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

## Location and Function of Controls

### Front View

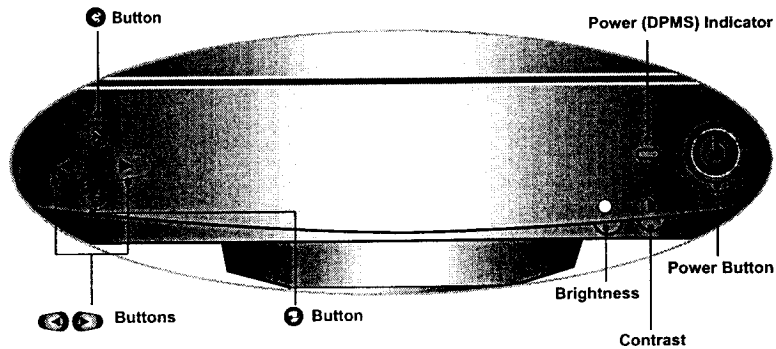












### Rear View



## Control Panel Function

### Front Panel Controls



Control	Function
  Button	Use this button to enter or exit the on screen display.
  Buttons	Use these buttons to choose or adjust items in the on screen display.
  Button	Use this button to enter a selection in the on screen display.
 <b>Brightness</b>	Used to adjust the brightness of the screen.
 <b>Contrast</b>	Adjust the display to the contrast desired.
 <b>Power (DPMS) Indicator</b>	This Indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode (stand-by/suspend/off), this indicator color changes to amber.
 <b>Power Button</b>	Use this button to turn the monitor on or off.

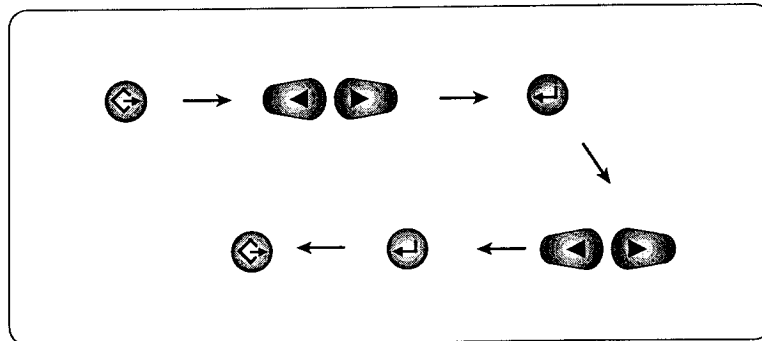
## On Screen Display (OSD) Control Adjustment









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:

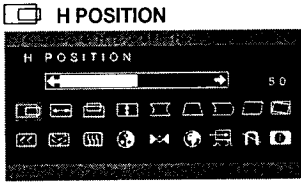
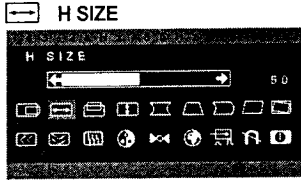
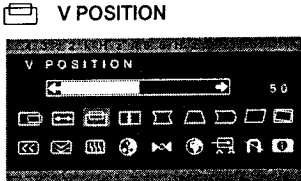
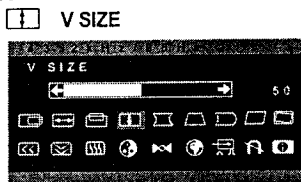
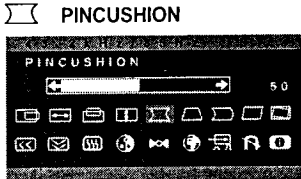


- 1 Press the  Button, then the main menu of the OSD appears.
- 2 To access a control, use the  or  Buttons. When the icon you want becomes highlighted, press the  Button.
- 3 Use the   Buttons to adjust the item to the desired level.
- 4 Accept the changes by pressing the  Button.
- 5 Exit the OSD by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






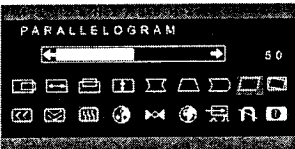

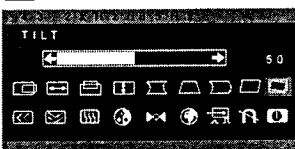

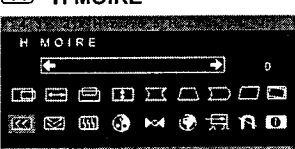

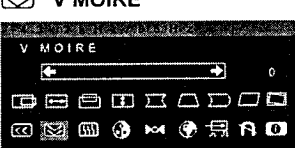


## On Screen Display(OSD) Selection and Adjustment


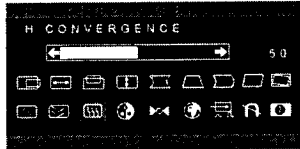

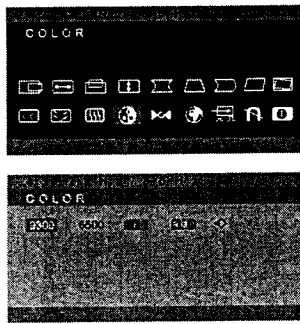









You were introduced to the procedure of selection and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

OSD Adjust	Description
 <p>The OSD menu for H POSITION shows a horizontal slider set to 50. Below the slider are various icons for OSD adjustments, including a left arrow icon.</p>	<p>To move picture image left and right.</p> <ul style="list-style-type: none"> <li>◀ Moves the screen image left.</li> <li>▶ Moves the screen image right.</li> </ul>
 <p>The OSD menu for H SIZE shows a horizontal slider set to 50. Below the slider are various icons for OSD adjustments, including a left arrow icon.</p>	<p>To adjust image width.</p> <ul style="list-style-type: none"> <li>◀ Decreases the size of the screen image.</li> <li>▶ Increases the size of the screen image.</li> </ul>
 <p>The OSD menu for V POSITION shows a vertical slider set to 50. Below the slider are various icons for OSD adjustments, including an up arrow icon.</p>	<p>To move image up and down.</p> <ul style="list-style-type: none"> <li>⬇ Moves the screen image down.</li> <li>⬆ Moves the screen image up.</li> </ul>
 <p>The OSD menu for V SIZE shows a vertical slider set to 50. Below the slider are various icons for OSD adjustments, including a left arrow icon.</p>	<p>To adjust image height.</p> <ul style="list-style-type: none"> <li>◀ Decreases the size of the screen image.</li> <li>▶ Increases the size of the screen image.</li> </ul>
 <p>The OSD menu for PINCUSHION shows a horizontal slider set to 50. Below the slider are various icons for OSD adjustments, including an inward-curving arrow icon.</p>	<p>To correct the bowing in and out of the image.</p> <ul style="list-style-type: none"> <li>◀ Curves the image's edges inwards.</li> <li>▶ Curves the image's edges outwards.</li> </ul>


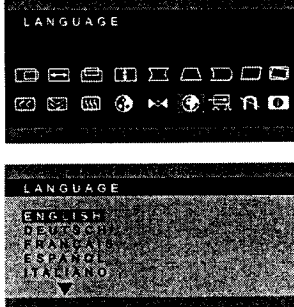





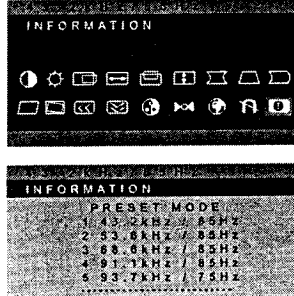


## On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
 <b>TRAPEZOID</b> 	<p>To correct geometric distortion.</p> <ul style="list-style-type: none"> <li>◀ Makes the screen image narrower at the top.</li> <li>▶ Moves the screen image wider at the top.</li> </ul>
 <b>PIN BALANCE</b> 	<p>To correct the balance of both sides bowing.</p> <ul style="list-style-type: none"> <li>◀ Curvature of the sides to the right.</li> <li>▶ Curvature of the sides to the left.</li> </ul>
 <b>PARALLELOGRAM</b> 	<p>This control adjusts for a skewing of the screen image.</p> <ul style="list-style-type: none"> <li>◀ Tilts the screen image leftward.</li> <li>▶ Tilts the screen image rightward.</li> </ul>
 <b>TILT</b> 	<p>To correct image rotation.</p> <ul style="list-style-type: none"> <li>◀ Tilts the screen image left.</li> <li>▶ Tilts the screen image right.</li> </ul>
 <b>H MOIRE</b> 	<p>Reduce horizontal moire when interference patterns of dark steady wavy lines appear on your screen. The moire adjustments may affect the focus of the screen.</p>
 <b>V MOIRE</b> 	<p>Reduce vertical moire when interference patterns of dark steady wavy lines appear on your screen. The moire adjustments may affect the focus of the screen.</p>

## On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
<p> <b>H CONVERGENCE</b></p> 	<p>This item allows you to adjust the horizontal convergence.</p> <p>The horizontal convergence control adjust the alignment of the red and blue horizontal fields.</p>
<p> <b>COLOR</b></p> 	<p>Select the desired color temperature (9300K, 6500K) or select user to set your own color levels(R/G/B).</p> <ul style="list-style-type: none"> <li>• <b>9300</b> : To appear the display's color temperature. Slightly bluish white.</li> <li>• <b>6500</b> : To appear the display's color temperature. Slightly reddish white.</li> <li>•  : Temperature range is from 5000K to 10000K. So, user easily color set without adjustment Red, Green and Blue (R/G/B).</li> <li>•  : To set your own color levels. Allow for specific adjustments to Red, Green and Blue (R/G/B).</li> <li>•  : To exit the COLOR OSD.</li> </ul>
<p> <b>RECALL</b></p> 	<p>You can use this function when you want to go back to the screen display of the time you purchased the product after adjusting to modify it in the Preset Mode.</p> <p>When you are in the User mode, you can recall only , , ,  items. After using Recall, adjust the screen display again if necessary.</p> <p>If you want more information on the Preset Mode, refer to A10 page.</p>

## On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
<p> <b>LANGUAGE</b></p> 	<p>To choose the language in which the control names are displayed. OSD Menus are available in 8 languages : <b>English, German, French, Spanish, Italian, Svenska, Suomi and Português.</b></p>
<p> <b>VIDEO LEVEL</b></p> 	<p>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.</p>
<p> <b>DEGAUSS</b></p> 	<p>To manually demagnetize the screen which may show some image or color incorrectly.</p>
<p> <b>INFORMATION</b></p> 	<p>To inform users of preset and user mode data.   : USER MODE   : PRESET MODE</p>

## Video Memory Modes

The monitor has 30 memory locations for display modes, 5 of which are factory preset to popular video modes.

### Preset Modes (Resolution)

Display Modes (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
5 VESA 1600 x 1200	93.750	75

### User Modes

- Modes 6-30 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 6.

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 6.

### 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 5 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 : 30-96kHz




\* 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 ,  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.

## Specifications

<b>Picture Tube</b>	17 inch (15.9 inches viewable) FST	
	90 degree deflection	
	0.26mm dot pitch	
	ARAS(Anti-Reflective Anti-Static) coating, U-coating	
<b>Sync Input</b>	Horizontal Freq.	30 - 96kHz (Automatic)
	Vertical Freq.	50 - 160Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative Composite TTL, Positive/Negative SOG (Sync On Green)
	Signal Input	15 pin D-Sub Connector
<b>Video Input</b>	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive
	Resolution(max)	1600 x 1200@75Hz
<b>Power Consumption</b>	Normal(Max.)	≤ 130W
	Stand-by/Suspend	≤ 8W
	Power Off	≤ 3W
<b>Dimensions (with tilt/ swivel stand)</b>	Width	41.6 cm / 16.4 inches
	Height	43.2 cm / 17.0 inches
	Depth	44.0 cm / 17.3 inches
<b>Power Input</b>	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.	
<b>Weight</b>	Net	18 kg (39.68 lbs)
<b>Environmental Conditions</b>	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.