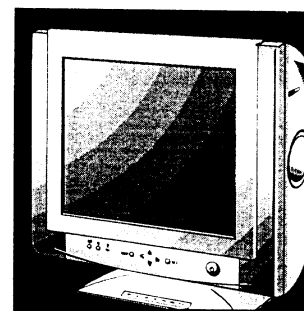


  
**LG Electronics Inc.**  
<http://www.lge.co.kr>

Color Monitor

# FLATRON

## 776FT



User's Guide  
Benutzerhandbuch  
Manuel d'utilisation  
Guida Utente  
Guia del Usuario  
Manual do proprietário  
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.

## Contents

|                                                                   |     |                                                                |     |
|-------------------------------------------------------------------|-----|----------------------------------------------------------------|-----|
| Introduction .....                                                | A1  | Introducción .....                                             | E1  |
| Connecting the Monitor .....                                      | A2  | Conectando del Monitor .....                                   | E2  |
| Location and Function of Controls.....                            | A3  | Ubicación y Función de los Controles.....                      | E3  |
| Control Panel Function.....                                       | A4  | Función del Panel de Control.....                              | E4  |
| On Screen Display (OSD) Control Adjustment ...                    | A5  | Ajuste del Control de Exhibición en Pantalla (OSD).....        | E5  |
| On Screen Display(OSD) Selection<br>and Adjustment .....          | A6  | Ajuste del OSD y Selección de Elementos.....                   | E6  |
| Sound Selection and Adjustment .....                              | A7  | Ajuste del Sonido y Selección de Elementos .....               | E7  |
| Video Memory Modes .....                                          | A9  | Modos de Memoria de Video .....                                | E9  |
| Troubleshooting.....                                              | A10 | Sugerencias para Localizar las Fallas .....                    | E10 |
| Specifications .....                                              | A12 | Especificaciones.....                                          | E12 |
| Einleitung.....                                                   | B1  | Introdução .....                                               | F1  |
| Anschließen.....                                                  | B2  | Conectando o Monitor.....                                      | F2  |
| Ort und Funktion der Bedienungselemente .....                     | B3  | Posição dos Controles e Descrição .....                        | F3  |
| Bedienungselemente der Bildkontrolle .....                        | B4  | Funções do Painel de Controle .....                            | F4  |
| Screen Display (OSD) Anpassung .....                              | B5  | Ajuste On Screen Display(OSD).....                             | F5  |
| OSD Einstellung und Auswahlssymbole .....                         | B6  | Ajustes OSD e Itens de Seleção .....                           | F6  |
| Ton Einstellung und Auswahlssymbole .....                         | B7  | Ajustes Som e Seleção .....                                    | F7  |
| Videospeichermodi .....                                           | B9  | Modos de Memória de Vídeo .....                                | F9  |
| Störungen .....                                                   | B10 | Resolvendo Problemas .....                                     | F10 |
| Produktbeschreibung.....                                          | B12 | Especificações.....                                            | F12 |
| Introduction .....                                                | C1  | Inleiding.....                                                 | N1  |
| Branchement du Moniteur .....                                     | C2  | De Monitor Aansluiten.....                                     | N2  |
| Nomenclature et Fonctions.....                                    | C3  | De plaatsing en de werking van de knoppen .....                | N3  |
| Fonctions du Panneau de Commande .....                            | C4  | Het bedieningspaneel.....                                      | N4  |
| Réglage des Commandes Affichage Écran .....                       | C5  | Bediening via het beeldscherm OSD<br>(On Screen Display) ..... | N5  |
| Options de sélection et de Réglage<br>OSD (affichage écran) ..... | C6  | Kiezen en instellen via het OSD-systeem .....                  | N6  |
| Son de Sélection et de Réglage.....                               | C7  | Sound Selection and Adjustment .....                           | N7  |
| Mise en Mémoire de Modes Vidéo .....                              | C9  | Modi voor video geheugen .....                                 | N9  |
| Quelques Conseils en Cas D'incident .....                         | C10 | Problemen oplossen .....                                       | N10 |
| Spécifications D'entree.....                                      | C12 | Specificaties .....                                            | N12 |
| Introduzione .....                                                | D1  |                                                                |     |
| Collegamento del Monitor .....                                    | D2  |                                                                |     |
| Posizione e Funzione dei Comandi di Controllo .....               | D3  |                                                                |     |
| Funzione del Pannello di Controllo .....                          | D4  |                                                                |     |
| Controllo Regolazione On Screen Display (OSD).....                | D5  |                                                                |     |
| Elementi di Selezione e Regolazione dell'OSD ...                  | D6  |                                                                |     |
| Sound di Selezione e Regolazione .....                            | D7  |                                                                |     |
| Modalità di Memoria Video .....                                   | D9  |                                                                |     |
| In Caso di Problemi.....                                          | D10 |                                                                |     |
| Specifiche .....                                                  | D12 |                                                                |     |

## 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).
- On Screen Display(OSD) adjustments in six languages:  
English, Deutsch, Français, Español, Italiano, Português for ease of setup and screen optimization
- Plug and play capability if supported by your system
- This monitor has DDC 2B function.\*
- Compliant with the following regulated specifications : \*
  - FCC Compliance Statement
  - CE Conformity Notice
  - EPA ENERGY STAR
  - Swedish MPR II
  - Swedish TCO'95

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

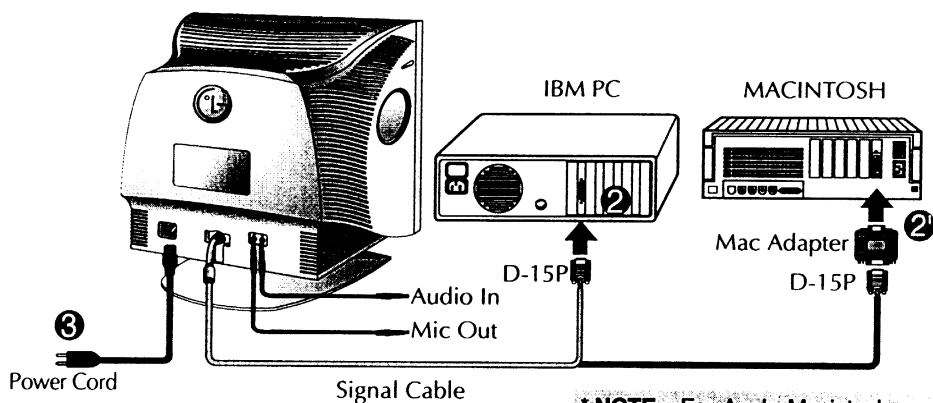
## Connecting the Monitor

**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.**

- ❶ Power off both the monitor and PC.
- ❷ 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.
- ❷ 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.

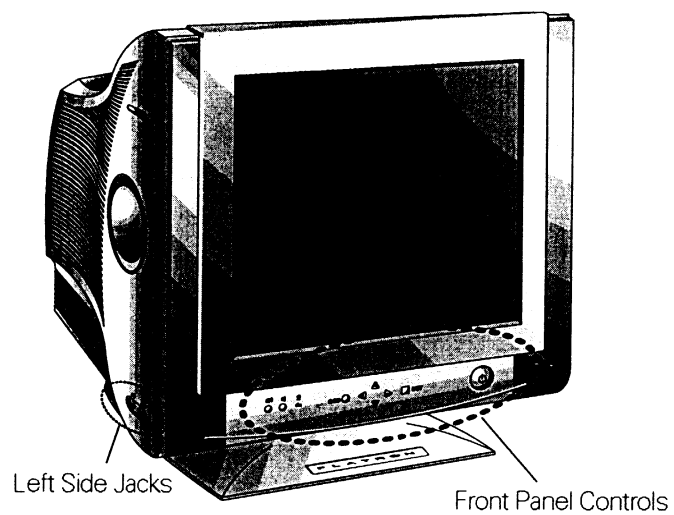
- ❸ One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.
- ❹ Power ON the PC, then the monitor.
- ❺ If you see the **SELF DIAGNOSTICS** message, check the signal cable and connectors.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



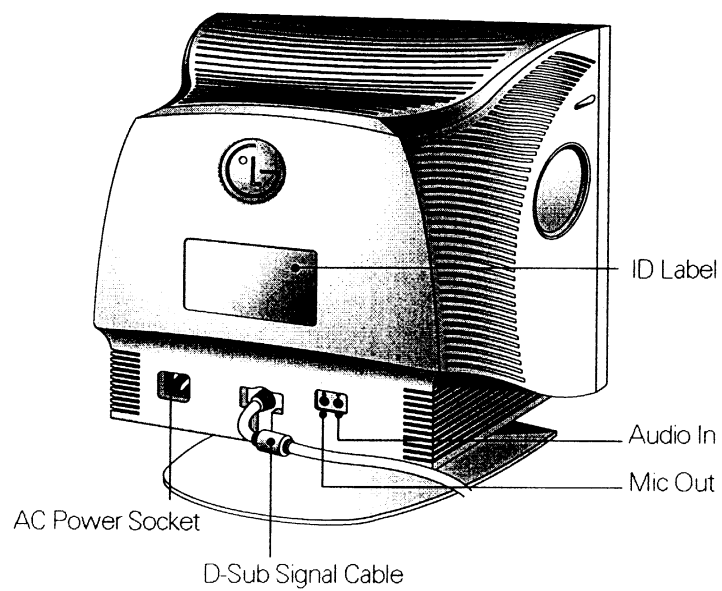
**\* NOTE :** For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

## Location and Function of Controls

### Front View

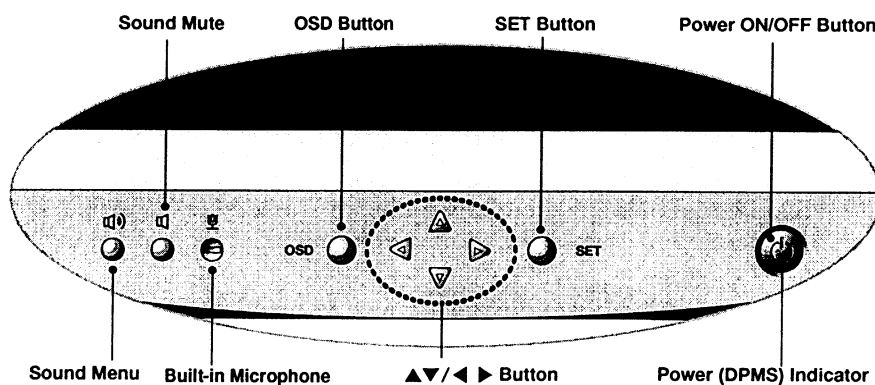


### Rear View



## Control Panel Function

### Front Panel Controls



| Control                                                                                                        | Function                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Sound Menu</b>          | To adjust sound menu.                                                                                                                                                                 |
|  <b>Sound Mute</b>          | Used to select mute on (means sound off) and mute off (means sound on).                                                                                                               |
|  <b>Built-in Microphone</b> | Built-in Microphone.                                                                                                                                                                  |
|  <b>OSD Button</b>          | Use this button to enter or exit the on screen display.                                                                                                                               |
|  <b>▲▼/◀▶ Button</b>        | Use these buttons to choose or adjust items in the on screen display.                                                                                                                 |
|  <b>SET Button</b>          | Use this button to enter a selection in the on screen display.                                                                                                                        |
|  <b>Power ON/OFF Button</b> | Use this button to turn the monitor on or off.                                                                                                                                        |
| <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/power off), this indicator color changes to amber. |

## Control Panel Function

### Left Side Jacks



#### Headphone Jack



Headphone Jack that automatically mutes the speaker volume when headphone is attached.

#### Microphone Jack



An external microphone can be used instead of the built-in microphone.

### Rear Panel Jacks



#### Mic. Out

Connects microphone sound to PC via cable.

#### Audio In

Connects speaker sound to PC via cable attachment.

### Microphone Operation

On the left side there is a MIC (Microphone) jack. By plugging a microphone in here, it may reduce the long length of cable needed to reach the PC's sound card. In order to use this MIC jack, you need to use a cable (supplied) to plug into the rear of the monitor (MIC OUT) and into the MIC input jack of your sound card (if available).

### Audio Features

A major feature of this monitor is its built-in audio system. This conveniently integrates a stereo audio amplifier and speakers without taking up any more space. Because the monitor is designed like this, you can easily upgrade to audio capable multimedia applications by attaching your PC with sound card to the back of this monitor. It will result in significantly less cabling and space requirements.

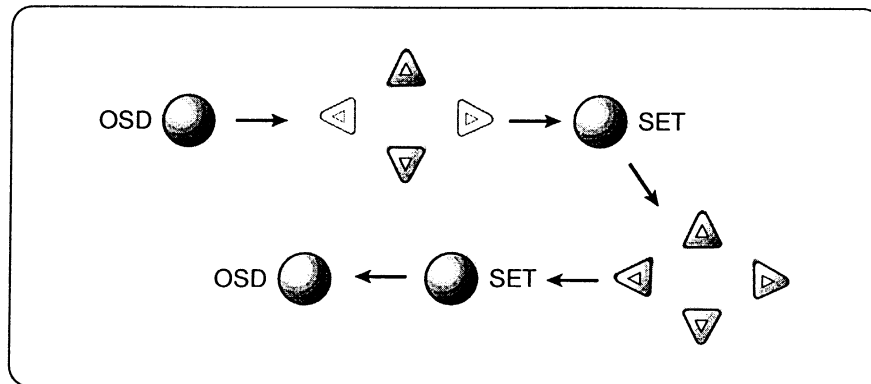
## On Screen Display (OSD) Control Adjustment

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 any adjustments.

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



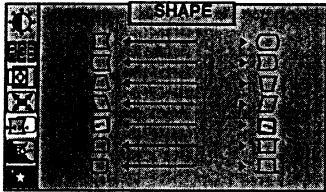
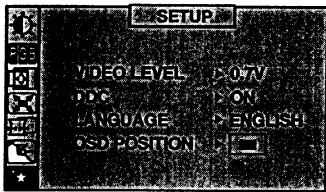
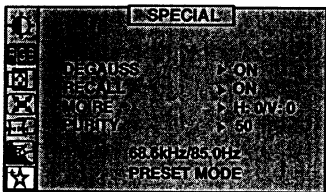
- 1 Press the **OSD Button**, then the main menu of the OSD appears.
- 2 To access a control, use the **Δ** or **▽** **Buttons**. When the icon you want becomes highlighted, press the **SET Button**.
- 3 Use the **Δ▽/◀▶** **Buttons** to adjust the item to the desired level.
- 4 Accept the changes by 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                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p> <b>Brightness</b><br/>Used to adjust the brightness of the screen.</p> <p> <b>Contrast</b><br/>Adjust the display to the contrast desired.</p>                                                                                                      |
|            | <p><b>PRESET 6500K/ 9300K</b><br/>To appear the displays color temperature.<br/>• 6500K:Slightly reddish white.<br/>• 9300K:Slightly bluish white.</p> <p><b>TEMP</b>      User easily color set without adjustment Red, Green and Blue (R/G/B).</p> <p><b>RED</b>        To set your own color levels.</p> <p><b>GREEN</b>      To set your own color levels.</p> <p><b>BLUE</b>       To set your own color levels.</p> |
|            | <p> <b>Vertical Position</b><br/>To move image up and down.</p> <p> <b>Horizontal Position</b><br/>To move picture image left and right.</p>                                                                                                        |
|            | <p> <b>Vertical Size</b><br/>To adjust image height.</p> <p> <b>Horizontal Size</b><br/>To adjust image width.</p>                                                                                                                                  |

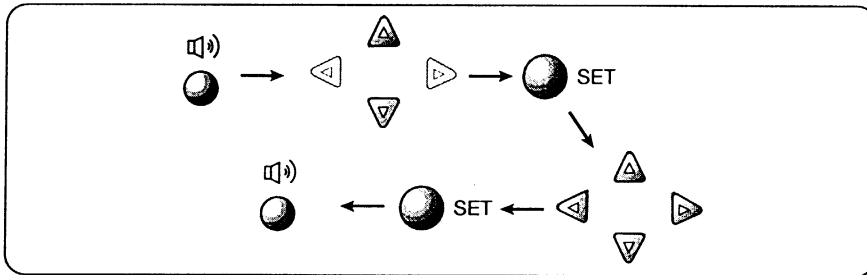
## On Screen Display(OSD) Selection and Adjustment

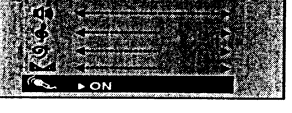
| OSD Adjust                                                                          | Description                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |  <b>Side Pincushion</b><br>To correct the bowing in and out of the image.                                                                                                                                                           |
|                                                                                     |  <b>Side pincushion balance</b><br>To correct the balance of both sides bowling.                                                                                                                                                    |
|                                                                                     |  <b>Trapezoid</b><br>To correct geometric distortion.                                                                                                                                                                               |
|                                                                                     |  <b>Parallelogram</b><br>This control adjusts for a skewing of the screen image.                                                                                                                                                    |
|                                                                                     |  <b>Tilt</b><br>To correct image rotation.                                                                                                                                                                                          |
|                                                                                     |  <b>Corner Top</b><br>To correct the irregular distortion of the displayed image.                                                                                                                                                   |
|                                                                                     |  <b>Corner Bottom</b><br>To correct the irregular distortion of the displayed image.                                                                                                                                               |
|  | <b>VIDEO LEVEL</b> 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.                                                                                                  |
|                                                                                     | <b>DDC</b> To select the DDC function(ON/OFF).                                                                                                                                                                                                                                                                       |
|                                                                                     | <b>LANGUAGE</b> To choose the language in which the control names are displayed.                                                                                                                                                                                                                                     |
|                                                                                     | <b>OSD POSITION</b> To adjust position of the OSD window on the screen.                                                                                                                                                                                                                                              |
|  | <b>DEGAUSS</b> To manually demagnetize the screen which may show some image or color incorrectly.                                                                                                                                                                                                                    |
|                                                                                     | <b>RECALL</b> If the monitor is operating in a factory preset mode, this control will reset the image to the factory preset mode.                                                                                                                                                                                    |
|                                                                                     | <b>MOIRE</b> 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).<br>The moire adjustments may affect the focus of the screen. The screen image may shake slightly while the moire reduction function is on. |
|                                                                                     | <b>PURITY</b> Use to adjust the overall purity of the image if the color appears uneven.                                                                                                                                                                                                                             |

## Sound 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 main Menu.

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



| OSD Adjust                                                                          | Description       |                                              |
|-------------------------------------------------------------------------------------|-------------------|----------------------------------------------|
|  | <b>VOLUME</b>     | Raises or lowers audio level.                |
|  | <b>TREBLE</b>     | Raises or lowers treble level.               |
|  | <b>BASS</b>       | Raises or lowers Bass level.                 |
|  | <b>BALANCE</b>    | Changes balance of left/right speaker level. |
|  | <b>MICROPHONE</b> | Enables or disables microphone usage.        |

## Video Memory Modes

The monitor has 36 memory locations for display modes, 11 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  | MAC                        | 832 x 624   | 49.75                 | 75                 |
| 10 | VESA                       | 1024 x 768  | 60.02                 | 75                 |
| 11 | VESA                       | 1280 x 1024 | 63.98                 | 60                 |

### User Modes

- Modes 12-36 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 12.

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 12.

### 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 11 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  $\Delta \nabla / \triangle \triangleright$  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

|                                            |                                                                  |
|--------------------------------------------|------------------------------------------------------------------|
| <b>Picture Tube</b>                        | 17 inch (16.0 inches viewable)                                   |
|                                            | 90 degree deflection                                             |
|                                            | 0.24mm Slot pitch                                                |
|                                            | W-ARAS(Wide Anti-Reflective Anti-Static) coating                 |
| <b>Sync Input</b>                          | <b>Horizontal Freq.</b> 30 - 70kHz (Automatic)                   |
|                                            | <b>Vertical Freq.</b> 50 - 160Hz (Automatic)                     |
|                                            | <b>Input Form</b> Separate TTL, Positive/Negative                |
|                                            | <b>Signal Input</b> 15 pin D-Sub Connector                       |
| <b>Video Input</b>                         | <b>Input Form</b> Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive |
|                                            | <b>Resolution(max)</b> 1280 x 1024@60Hz                          |
| <b>Audio</b>                               | <b>RMS Audio Output</b> 4W (R+L)                                 |
|                                            | <b>Input Sensitivity</b> 0.7 Vrms                                |
|                                            | <b>Built-in MIC</b> E.C.M type (Electret Condenser Microphone)   |
|                                            | <b>Speaker Impedance</b> 4Ω                                      |
| <b>Power Consumption</b>                   | <b>Normal(Max.)</b> ≤ 115W                                       |
|                                            | <b>Stand-by/Suspend</b> ≤ 15W                                    |
|                                            | <b>Power Off</b> ≤ 8W                                            |
| <b>Dimensions (with lift/swivel stand)</b> | <b>Width</b> 46.0 cm / 18.1 inches                               |
|                                            | <b>Height</b> 43.9 cm / 17.28 inches                             |
|                                            | <b>Depth</b> 44.0 cm / 17.3 inches                               |
| <b>Power Input</b>                         | AC 100-240V 50/60Hz 2.0A                                         |
| <b>Weight</b>                              | <b>Net</b> 21 kg (46.3 lbs)                                      |
| <b>Environmental Conditions</b>            | <b>Operating Condition</b>                                       |
|                                            | <b>Temperature</b> 10 °C to 35 °C                                |
|                                            | <b>Humidity</b> 10 % to 90 % non-Condensing                      |
|                                            | <b>Storage Condition</b>                                         |
|                                            | <b>Temperature</b> 0 °C to 60 °C                                 |
|                                            | <b>Humidity</b> 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.