

**ATTACHMENT K – USERS MANUAL**

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# StudioWorks 773N

User's Guide  
Manuel d'utilisation  
Guía del Usuario  
Manual do proprietário

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.

## Color Monitor



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As an ENERGY STAR Partner  
LG Electronics U. S. A., Inc.  
has determined that this product  
meets the ENERGY STAR  
guidelines for energy efficiency.

P/N O : 3828TUL

Printed in



# 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

## ENGLISH

Introduction .....	A1
Connecting the Monitor.....	A2
Location and Function of Controls .....	A4
Control Panel Function .....	A5
On Screen Display (OSD) Control Adjustment .....	A6
On Screen Display(OSD) Selection and Adjustment .....	A7
Video Memory Modes .....	A11
Troubleshooting .....	A12
Specifications .....	A13

## FRANÇAIS

Introduction .....	C1
Branchement du Moniteur .....	C2
Nomenclature et Fonctions .....	C4
Fonctions du Panneau de Commande .....	C5
Réglage des Commandes Affichage Écran.....	C6
Options de sélection et de Réglage OSD (affichage écran) .....	C7
Mise en Mémoire de Modes Vidéo.....	C11
Quelques Conseils en Cas D'incident .....	C12
Spécifications D'entree .....	C13

## ESPAÑOL

Introducción .....	E1
Conectando del Monitor .....	E2
Ubicación y Funcion de los Controles .....	E4
Función del Panel de Control .....	E5
Ajuste del Control de Exhibición en Pantalla (OSD) .....	E6
Ajuste del OSD y Selección de Elementos .....	E7
Modos de Memoria de Video.....	E11
Sugerencias para Localizar las Fallas .....	E12
Especificaciones.....	E13

## PORTUGUÊS

Introdução.....	F1
Conectando o Monitor .....	F2
Posição dos Controles e Descrição .....	F4
Funções do Painel de Controle .....	F5
Ajuste On Screen Display(OSD) .....	F6
Ajustes OSD e Itens de Seleção .....	F7
Modos de Memória de Vídeo.....	F11
Resolvendo Problemas.....	F12
Especificações.....	F13

## 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 (16.06 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 seven languages: English, Deutsch, Français, Español, Italiano, Português, Korean 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 :\*
  - EPA ENERGY STAR
  - Swedish MPR II

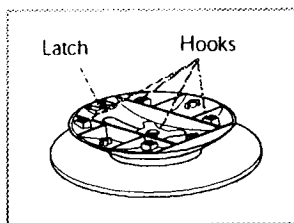
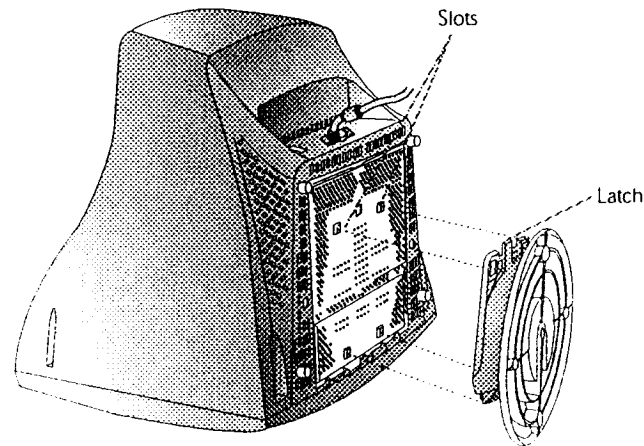
*\*For detailed information, please refer to the Reference Guide provided.*

## Connecting the Monitor

- Turn off the equipment and all attached options.
- Carefully set the monitor face-down with the underside facing you.

### Installation the monitor

1. Align the hooks on the tilt/swivel stand with the matching slots in the base of the monitor.
2. Insert the hooks into slots.
3. Slide the tilt/swivel stand toward the front of the monitor until the latches click into the locked position.



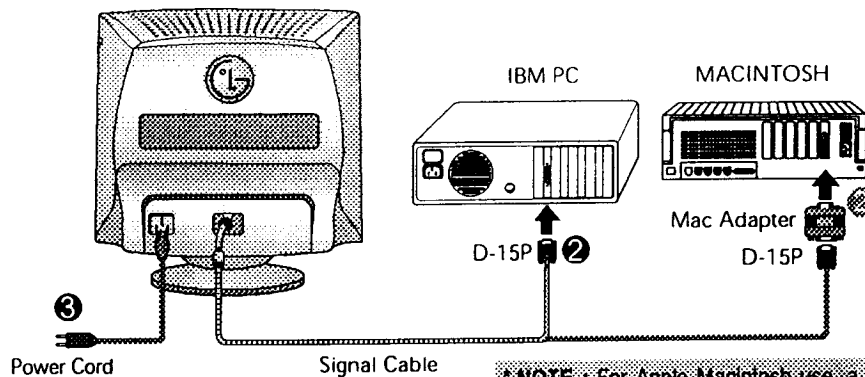
## Connecting the Monitor

**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.
- 3 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.

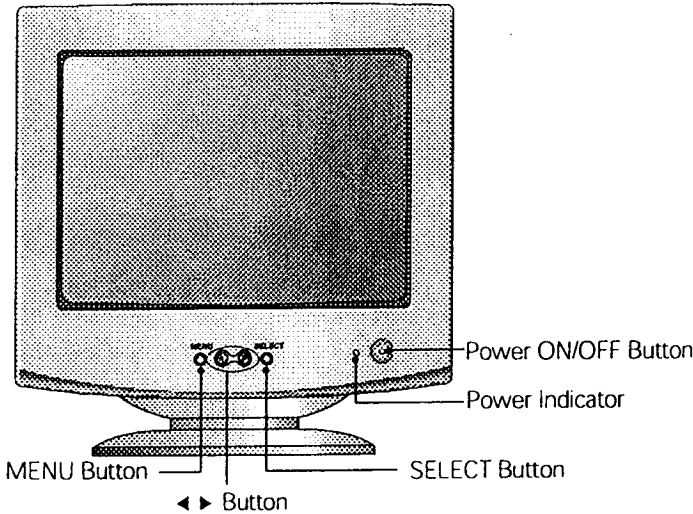
- 3 One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet.
- 4 Power ON the PC, then the monitor.
- 5 If you see the SELF DIAGNOSTICS message, check the signal cable and connectors.
- 6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



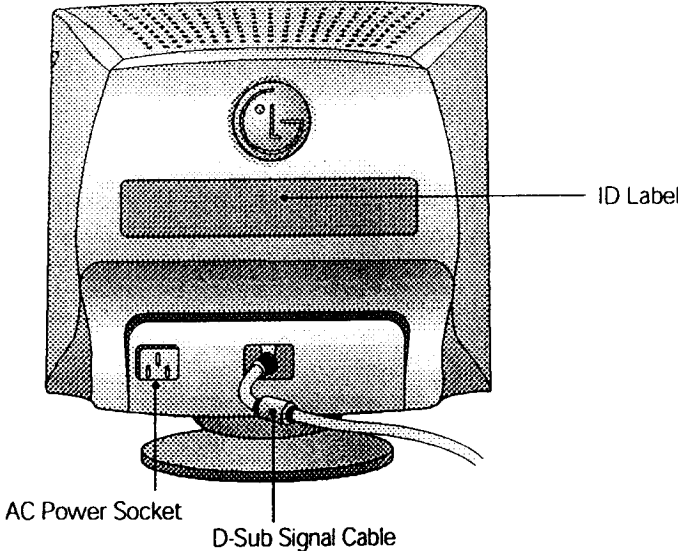
**\* NOTE :** For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

# Location and Function of Controls

## Front View



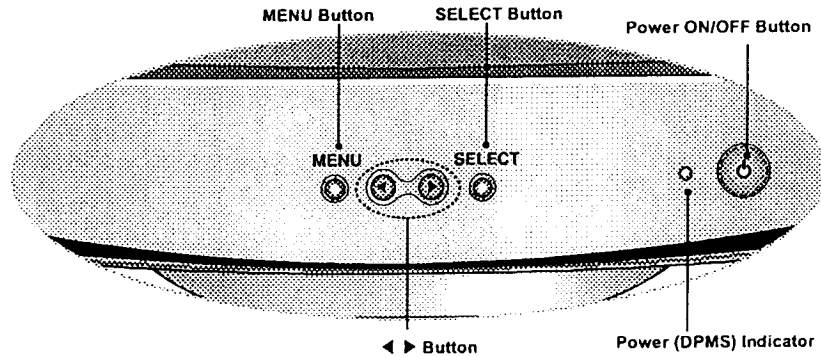
## Rear View










# Control Panel Function

## Front Panel Controls



Control	Function
 <b>MENU Button</b>	Use this button to enter or exit the on screen display.
 <b>&lt; &gt; Button</b>	Use these buttons to choose or adjust items in the on screen display.
 <b>SELECT 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.

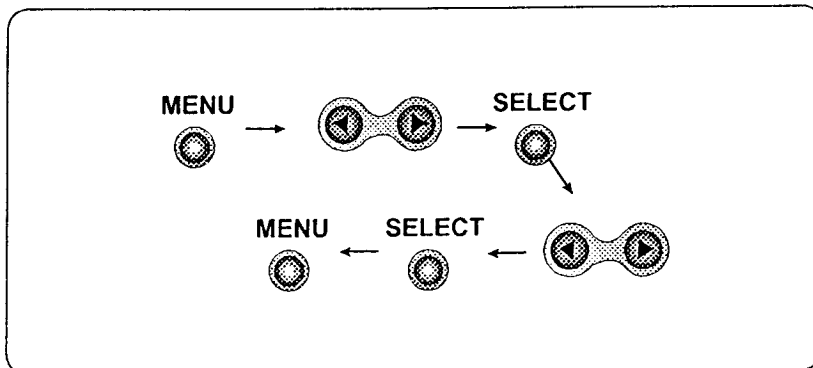
## On Screen Display (OSD) Control Adjustment

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.

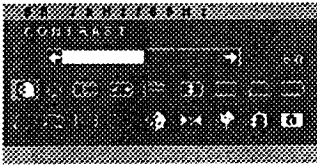
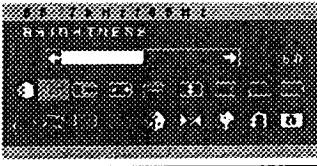
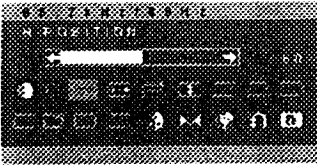
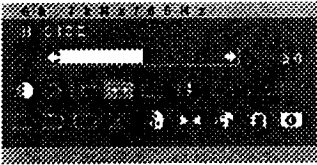
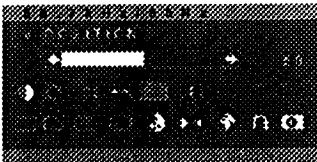
To make adjustments in the On Screen Display, follow these steps:




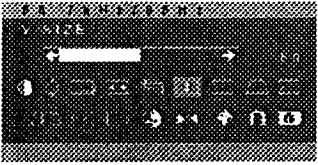

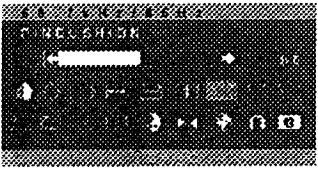

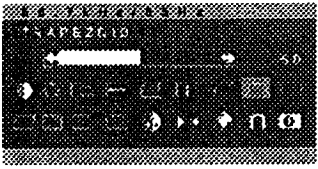



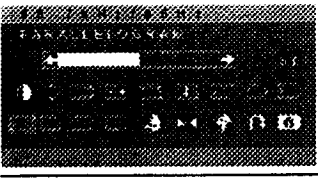

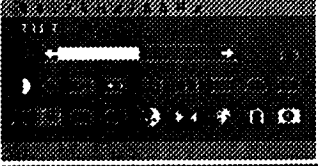
- 1** Press the MENU Button, then the main menu of the OSD appears.
- 2** To access a control, use the ◀ or ▶ Buttons. When the icon you want becomes highlighted, press the SELECT Button.
- 3** Use the ◀ ▶ Buttons to adjust the item to the desired level.
- 4** Accept the changes by pressing the SELECT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

## On Screen Display(OSD) Selection and Adjustment

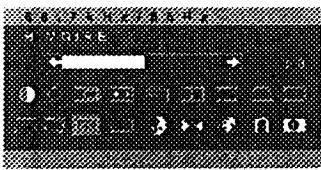
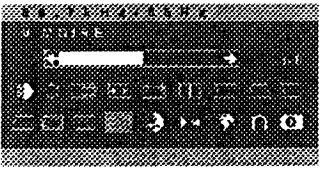
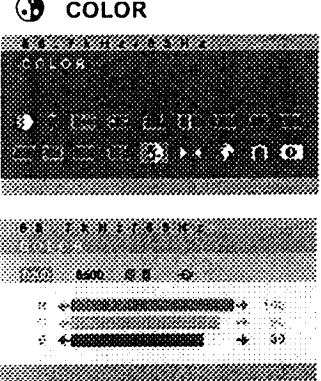



You were introduced to the procedure of selection and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the items that are shown on the Menu.

OSD Adjust	Description
 <p>CONTRAST</p>	Adjust the display to the contrast desired.
 <p>BRIGHTNESS</p>	Used to adjust the brightness of the screen.
 <p>H POSITION</p>	To move picture image left and right. ◀ Moves the screen image left. ▶ Moves the screen image right.
 <p>H SIZE</p>	To adjust image width. ◀ Decreases the size of the screen image. ▶ Increases the size of the screen image.
 <p>V POSITION</p>	To move image down and up. ◀ Moves the screen image down. ▶ Moves the screen image up.


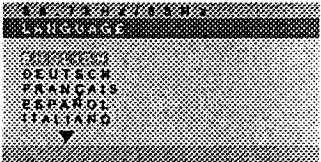


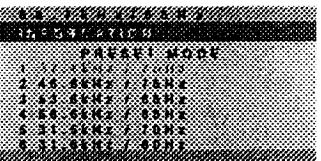
## On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
<p> <b>V SIZE</b></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> <b>PINCUSHION</b></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>
<p> <b>TRAPEZOID</b></p> 	<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>
<p> <b>PIN BALANCE</b></p> 	<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>
<p> <b>PARALLELOGRAM</b></p> 	<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>
<p> <b>TILT</b></p> 	<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>

## On Screen Display(OSD) Selection and Adjustment

OSD Adjust	Description
	<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>
	<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>
	<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>• 9300 : Slightly bluish white.</li> <li>• 6500 : Slightly reddish white.</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>If the monitor is operating in a factory preset mode, this control will reset the image to the factory preset mode. If you want more information on the Preset Mode, refer to A11 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 seven languages : <b>English, German, French, Spanish, Italian, Portuguese and Korean.</b></p>
<p><b>DEGAUSS</b></p> 	<p>Used to demagnetize the picture to give a more accurate image and color.</p>
<p><b>INFORMATION</b></p>  	<p>To inform users of preset and user mode data.</p>

## 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 MENU, SELECT 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

<b>Picture Tube</b>	17 inch (16.06 inches viewable)
	90 degree deflection
	0.27mm dot pitch
	ARAS(Anti-Reflective Anti-Static) coating
<b>Sync Input</b>	Horizontal Freq. 30 - 70kHz (Automatic)
	Vertical Freq. 50 - 160Hz (Automatic)
	Input Form Separate TTL, Positive/Negative
	Signal Input 15 pin D-Sub Connector
<b>Video Input</b>	Input Form Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive
	Resolution(max) 1280 x 1024@60Hz
<b>Power</b>	Normal(Max) ≤ 85W (90W)
<b>Consumption</b>	Stand-by/Suspend ≤ 15W
	Power Off ≤ 5W
<b>Dimensions (with tilt swivel stand)</b>	Width 40.0 cm / 15.75 inches
	Height 41.0 cm / 16.14 inches
	Depth 43.0 cm / 16.93 inches
<b>Power Input</b>	AC 100-240V 50/60Hz 2.0A
<b>Weight</b>	Net 14.6 kg (32.18 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.