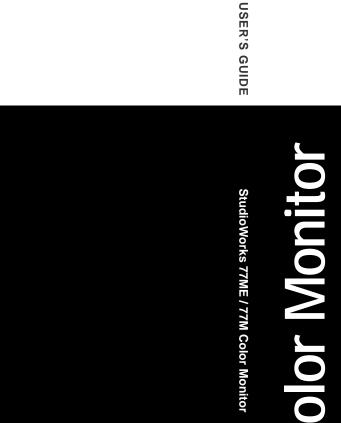
```
ATTACHMENT J – USER'S MANUAL
```



StudioWorks 77ME / 77M Color Monitor

G

LG

# **StudioWorks**

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.



🕒 LG

http://www.lge.com

Printed in Indonesia







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# 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 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.

# 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.

#### 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<sup>\*</sup>, PS/2<sup>\*</sup>, Apple<sup>\*</sup>, Macintosh<sup>\*</sup>, Centris<sup>\*</sup>, Quadra<sup>\*</sup>, 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 (Applies to 77ME only)

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



ENGLISH

# Connecting the Monitor

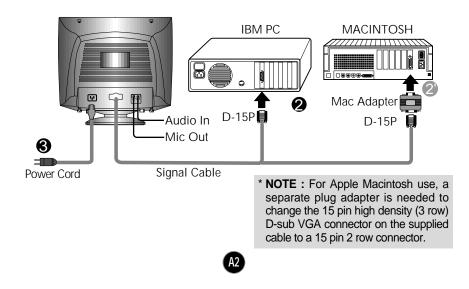
On the back of the monitor are two plug-in connections; one for the AC power cord, and the other for the signal cable from the video card.

Power off both the monitor and PC.

- 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.
- 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.

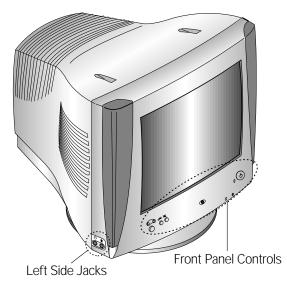
Connect the attached adapter block/signal cable to the video output on your MAC.

- 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.
- Power ON the PC, then the monitor.
- **(b)** 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.

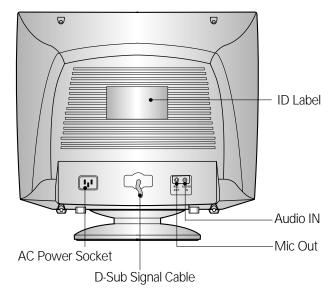


# Location and Function of Controls

Front View

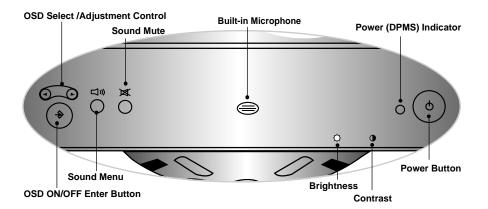


**Rear View** 



# **Control Panel Function**

# **Front Panel Controls**



	Control	Function
0-0	OSD Select/ Adjustment Control	Use these buttons to choose or adjust items in the on screen display.
۲	OSD ON/OFF Enter Button	Use this button to enter or exit the on screen display.
۵»	Sound Menu	To adjust sound menu.
×	Sound Mute	Used to select mute on (means sound off) and mute off (means sound on).
	Built-in Microphone	Built-in Microphone.
-Ѻ-	Brightness Adjustment Control	Used to adjust the brightness of the screen.
$\bigcirc$	Contrast Adjustment Control	Adjust the display to the contrast desired.
0	Power (DPMS) Indicator	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.
•	Power Button	Use this button to turn the monitor on or off.



# **Control Panel Function**

## Left Side Jacks

Headphone Jack	Headphone Jack that automatically mutes the speaker volume when headphone is attached.
Microphone Jack 型	An external microphone can be used instead of the built-in microphone.

## **Rear Panel Jacks**

00	Mic. Out	Connects microphone sound to PC via cable.
MIC. AUDIO OUT IN	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.



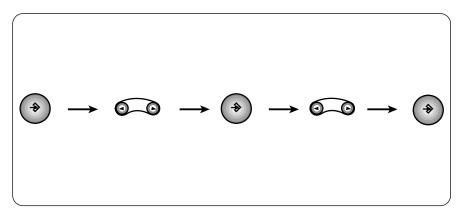
# On Screen Display (OSD) Control Adjustment

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 image adjustment.

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



- Press the 🕑 Button, then the main menu of the OSD appears.
- 2 To acces a control, use the O or O Buttons. When the icon you want becomes highlighted, press the D Button.
- 3 Use the **Order Buttons** to adjust the item to the desired level.
- Accept the changes by pressing the 🕤 Button.

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
H POSITION      5 8 . 7 k H z / 8 5 H z      H POSITION      F 5 0      F 6 1 1 1 1 1 1      5 0      C 1 1 1 1      C 1 1 1      C 1 1 1      C 1      C 1 1	<ul> <li>To move picture image left and right.</li> <li>Moves the screen image left.</li> <li>Moves the screen image right.</li> </ul>
H SIZE     6 8 . 7 k H z / 8 5 H z     H SIZE     H SIZE     f f f f f f f f f f f f f f f f f	<ul> <li>To adjust image width.</li> <li>Decreases the size of the screen image.</li> <li>Increases the size of the screen image.</li> </ul>
V POSITION      6 8 . 7 k H z / 8 5 H z      V POSITION      ✓	<ul> <li>To move image up and down.</li> <li>Moves the screen image down.</li> <li>Moves the screen image up.</li> </ul>
V SIZE     6 8 . 7 k H z / 8 5 H z     V SIZE     V SIZE     •••••••••••••••••••••••••••••••••	<ul> <li>To adjust image height.</li> <li>Decreases the size of the screen image.</li> <li>Increases the size of the screen image.</li> </ul>
PINCUSHION         6 8 . 7 k H z / 8 5 H z         PINCUSHION         FINCUSHION         FINCUSHION     <	<ul> <li>To correct the bowing in and out of the image.</li> <li>Curves the image's edges inwards.</li> <li>Curves the image's edges outwards.</li> </ul>

(A7)

OSD Adjust	Description
68.7 k H z / 85 H z T R A P E Z O I D	To correct geometric distortion.
	<ul> <li>Makes the screen image narrower at the top.</li> <li>Moves the screen image wider at the top.</li> </ul>
68.7kHz/85Hz PIN BALANCE → 50 → → 50 → → → 50 → → → → 50 → → → → → → → → → → → → → → → → → → →	<ul> <li>To correct the balance of both sides bowing.</li> <li>Curvature of the sides to the right.</li> <li>Curvature of the sides to the left.</li> </ul>
PARALLELOGRAM	
6 8 . 7 k H z / 8 5 H z PARALLELOGRAM ← 50	This control adjusts for a skewing of the screen image.
	<ul> <li>Tilts the screen image leftward.</li> <li>Tilts the screen image rightward.</li> </ul>
6 8 . 7 k H z / 8 5 H z	To correct image rotation
TILT 50	To correct image rotation.
	O Tilts the screen image right.
68.7 k H z / 85 H z H MOIRE	Reduce horizontal moire when interference patterns of dark steady wary lines appear on your screen. The moire adjustments may affect the focus of the screen.
V MOIRE	
68.7 k H z / 85 H z V MOIRE ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	Reduce vertical moire when interference patterns of dark steady wary lines appear on your screen. The moire adjustments may affect the focus of the screen.
	0

OSD Adjust	Description
6 8 . 7 k H z / 8 5 H z         COLOR         □ □ □ □ □ □ □         □ □ □ □ □ □ □         □ □ □ □ □ □         □ □ □ □ □ □         □ □ □ □ □         □ □ □ □         □ □ □ □         □ □ □ □         □ □ □ <t< th=""><th><ul> <li>9300 : To appear the display's color temperature. Slightly bluish white.</li> <li>6500 : To appear the display's color temperature. Slightly reddish white.</li> <li>K : Temperature range is from 5000K to 10000K. So, user easily color set without adjustment Red, Green and Blue (R/G/B).</li> <li>RCB : 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></th></t<>	<ul> <li>9300 : To appear the display's color temperature. Slightly bluish white.</li> <li>6500 : To appear the display's color temperature. Slightly reddish white.</li> <li>K : Temperature range is from 5000K to 10000K. So, user easily color set without adjustment Red, Green and Blue (R/G/B).</li> <li>RCB : 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>
▶••• RECALL         68.7 k H z / 85 H z         RECALL         Image: Second state	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. When you are in the User mode, you can recall only $\Box$ , $\Box$ , $\Box$ , $\Box$ items. After using Recall, adjust the screen display again if necessary. If you want more information on the Preset Mode, refer to A12 page.
68.7kHz/85Hz LANGUAGE	To choose the language in which the control names are displayed. OSD Menus are available in 7 languages : <b>English, German,</b> <b>French, Spanish, Italian, Português</b> <b>and Korean.</b>
•	

A9

OSD Adjust	Description
6 8 . 7 H z / 8 5 H z VIDEO LEVEL 0.7V 1.0V □ ➡ ➡ ➡ Ţ ⓒ ♡ ③ ⋈ ④ ➡ ♠ Ţ ^ . 0 ↔	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.
A DEGAUSS	
68.7 k H z / 85 H z DEGAUSS □ □ □ □ □ □ □ □ □ [] □ □ □ □ □ □ □ □ [] □ ○ □ □ □ □	To manually demagnetize the screen which may show some image or color incorrectly.
68.7 kHz/85Hz INFORMATION	To inform users of preset and user mode data.
	<ul><li>☑ : USER MODE</li><li>☑ : PRESET MODE</li></ul>
6 8 . 7 k H z / 8 5 H z INFORMATION PRESET MODE 1 37.5 k H z / 75 H z 2 46.8 k H z / 75 H z 3 53.6 k H z / 85 H z 4 68.6 k H z / 85 H z 5 31.5 k H z / 60 H z	
68.7 k H z / 85 H z OSD EXIT □  □  □  □  □ □ □ □ □ □ □ □ □ □ □ □ □	To disappear of the OSD on the screen.



# 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.

**S** ര ē Ò **\$** Θ **OSD** Adjust Description k H z / 8 5 H VOLUME Raises or lowers audio level. Ð W) 6 ର୍ м 🕷 TREBLE Raises or lowers treble level. 🕼 💪 🍼 🖂 🔍 BASS Raises or lowers Bass level. 🕼 🖁 河 🛌 🍬 68.7kHz/85Hz BALANCE BALANCE Changes balance of left/right speaker ← · · · · · · |||| · · · · · · → level. 🕼 👌 🎐 🛌 🔍 68.7kHz/ MICROPHONI MICROPHONE Enables or disables microphone usage. ©) \$ ୍ର ଜ

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

# Video Memory Modes

The monitor has 36 memory locations for display modes, 11 of which are factory preset to popular video modes.

## Preset Modes (Resolution)

Display Modes (Resolution)		Horizontal Freq.(kHz)	Vertical Freq.(Hz)	
1	VGA	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	MAC	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	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 and o 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 abnomal 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

Resolution(max)       1280 x 1024@60Hz         Audio       RMS Audio Output       4W (R+L)         Input Sensitivity       0.7 Vrms				
$\begin{tabular}{ c c c c c }\hline & 0.27mm dot pitch \\ \hline ARAS(Anti-Reflective Anti-Static) coating \\ \hline & Sync Input \\ \hline & Horizontal Freq. 30 - 70kHz (Automatic) \\ \hline & Vertical Freq. 50 - 160Hz (Automatic) \\ \hline & Input Form Separate TTL, Positive/Negative \\ \hline & Signal Input 15 pin D-Sub Connector \\ \hline & Video Input \\ \hline & Input Form Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive \\ \hline & Resolution(max) 1280 \times 1024@60Hz \\ \hline & Audio \\ \hline & RMS Audio Output 4W (R+L) \\ \hline & Input Sensitivity 0.7 Vrms \\ \hline & Built-in MIC & E.C.M type (Electrect Condenser Microphone \\ \hline & Speaker Impedance 4\Omega \\ \hline & Power \\ \hline & Normal & \leq 120W \\ \hline & Consumption \\ \hline & Stand-by/Suspend & \leq 15W \\ \hline & Power Off & \leq 8W \\ \hline & Dimensions (with \\ tilt/ swivel stand) \\ \hline & Height & 43.6 cm / 17.2 inches \\ \hline & Depth & 44.2 cm / 17.4 inches \\ \hline & \\ \hline \hline \hline & \\ \hline \hline \hline & \\ \hline \hline & \\ \hline \hline \hline \hline$	icture Tube	17 inch (15.9 inches viewable) FST		
ARAS(Anti-Reflective Anti-Static) coatingSync InputHorizontal Freq. $30 - 70$ kHz (Automatic)Vertical Freq. $50 - 160$ Hz (Automatic)Input FormSeparate TTL, Positive/NegativeSignal Input $15$ pin D-Sub ConnectorVideo InputInput FormSeparate, RGB Analog, $0.7$ Vp-p/75 ohm, Positive Resolution(max)AudioRMS Audio Output $4W$ (R+L)Input Sensitivity $0.7$ VrmsBuilt-in MICE.C.M type (Electrect Condenser Microphone Speaker ImpedancePower ConsumptionNormal $\leq 120$ WDimensions (with tilt/ swivel stand)Width $46.5$ cm / 18.3 inchesHeight $43.6$ cm / 17.2 inchesDepth $44.2$ cm / 17.4 inches	-			
Sync InputHorizontal Freq. $30 - 70$ kHz (Automatic)Vertical Freq. $50 - 160$ Hz (Automatic)Input FormSeparate TTL, Positive/NegativeSignal Input $15$ pin D-Sub ConnectorVideo InputInput FormSeparate, RGB Analog, $0.7$ Vp-p/75 ohm, PositiveResolution(max) $1280 \times 1024@60$ HzAudioRMS Audio Output4W (R+L)Input Sensitivity $0.7$ VrmsBuilt-in MICE.C.M type (Electrect Condenser MicrophoneSpeaker Impedance $4\Omega$ PowerNormal $\leq 120$ WConsumptionStand-by/Suspend $\leq 15$ WDimensions (with tilt/ swivel stand)Width $46.5$ cm / 18.3 inchesHeight $43.6$ cm / 17.2 inchesDepth $44.2$ cm / 17.4 inches				
Vertical Freq.50 - 160Hz (Automatic)Input FormSeparate TTL, Positive/NegativeSignal Input15 pin D-Sub ConnectorVideo InputInput FormSeparate, RGB Analog, 0.7Vp-p/75 ohm, Positive Resolution(max)AudioRMS Audio Output4W (R+L)Input Sensitivity0.7 VrmsBuilt-in MICE.C.M type (Electrect Condenser Microphone Speaker ImpedancePowerNormal $\leq 120W$ ConsumptionStand-by/Suspend $\leq 15W$ Dimensions (with tilt/ swivel stand)Width $46.5 \text{ cm} / 18.3 \text{ inches}$ Height $43.6 \text{ cm} / 17.2 \text{ inches}$				
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Signal Input15 pin D-Sub ConnectorVideo InputInput FormSeparate, RGB Analog, 0.7Vp-p/75 ohm, Positive Resolution(max)AudioRMS Audio Output $4W$ (R+L)Input Sensitivity0.7 VrmsBuilt-in MICE.C.M type (Electrect Condenser Microphone Speaker ImpedancePower ConsumptionNormal $\leq 120W$ Dimensions (with tilt/ swivel stand)Width $46.5 \text{ cm} / 18.3 \text{ inches}$ Height $43.6 \text{ cm} / 17.2 \text{ inches}$	-	Vertical Freq.	50 - 160Hz (Automatic)	
Video InputInput FormSeparate, RGB Analog, 0.7Vp-p/75 ohm, Positive Resolution(max)AudioRMS Audio Output $4VV (R+L)$ Input Sensitivity $0.7 Vrms$ Built-in MICBuilt-in MICE.C.M type (Electrect Condenser Microphone) Speaker Impedance $4\Omega$ Power ConsumptionNormal $\leq 120W$ Dimensions (with tilt/ swivel stand)Width $46.5 \text{ cm} / 18.3 \text{ inches}$ Height $43.6 \text{ cm} / 17.2 \text{ inches}$		Input Form	Separate TTL, Positive/Negative	
Resolution(max) $1280 \times 1024@60Hz$ AudioRMS Audio Output $4W$ (R+L)Input Sensitivity $0.7$ VrmsBuilt-in MICE.C.M type (Electrect Condenser Microphone Speaker ImpedancePower ConsumptionNormal $\leq 120W$ Stand-by/Suspend $\leq 15W$ Power Off $\leq 8W$ Dimensions (with tilt/ swivel stand)Width $46.5$ cm / 18.3 inchesHeight $43.6$ cm / 17.2 inchesDepth $44.2$ cm / 17.4 inches		Signal Input	15 pin D-Sub Connector	
AudioRMS Audio Output $4W$ (R+L)Input Sensitivity0.7 VrmsBuilt-in MICE.C.M type (Electrect Condenser Microphone)Speaker Impedance $4\Omega$ PowerNormal $\leq 120W$ ConsumptionStand-by/Suspend $\leq 15W$ Power Off $\leq 8W$ Dimensions (with tilt/ swivel stand)Width $46.5 \text{ cm} / 18.3 \text{ inches}$ Height $43.6 \text{ cm} / 17.2 \text{ inches}$ Depth $44.2 \text{ cm} / 17.4 \text{ inches}$	ideo Input	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive	
$\begin{tabular}{ c c c c c } \hline Input Sensitivity & 0.7 Vrms \\ \hline Built-in MIC & E.C.M type (Electrect Condenser Microphone Speaker Impedance & 4\Omega \\ \hline \hline Speaker Impedance & 4\Omega \\ \hline \hline Speaker Impedance & 120W \\ \hline Consumption & Stand-by/Suspend & \leq 15W \\ \hline Power Off & \leq 8W \\ \hline \hline Dimensions (with tilt/ swivel stand) & Width & 46.5 cm / 18.3 inches \\ \hline Height & 43.6 cm / 17.2 inches \\ \hline Depth & 44.2 cm / 17.4 inches \\ \hline \end{tabular}$		Resolution(max)	1280 x 1024@60Hz	
$\begin{array}{ c c c c c c } \hline Built-in MIC & E.C.M type (Electrect Condenser Microphone Speaker Impedance 4\Omega \\ \hline \hline \mbox{Power} & Normal & \leq 120W \\ \hline \mbox{Consumption} & Stand-by/Suspend & \leq 15W \\ \hline \mbox{Power Off} & \leq 8W \\ \hline \mbox{Dimensions (with tilt/ swivel stand)} & Width & 46.5 cm / 18.3 inches \\ \hline \mbox{Height} & 43.6 cm / 17.2 inches \\ \hline \mbox{Depth} & 44.2 cm / 17.4 inches \\ \hline \end{array}$	vudio	RMS Audio Output	4W (R+L)	
$\frac{  P_{0}  ^{2}}{ P_{0}  ^{2}} = \frac{ P_{0}  ^{2}}{ P_{0}  ^{2$		Input Sensitivity	0.7 Vrms	
Power ConsumptionNormal $\leq 120W$ Stand-by/Suspend $\leq 15W$ Power Off $\leq 8W$ Dimensions (with tilt/ swivel stand)Width $46.5 \text{ cm} / 18.3 \text{ inches}$ Height $43.6 \text{ cm} / 17.2 \text{ inches}$ Depth $44.2 \text{ cm} / 17.4 \text{ inches}$		Built-in MIC	E.C.M type (Electrect Condenser Microphone)	
Consumption         Stand-by/Suspend         ≤         15W           Power Off         ≤         8W           Dimensions (with tilt/ swivel stand)         Width         46.5 cm / 18.3 inches           Height         43.6 cm / 17.2 inches           Depth         44.2 cm / 17.4 inches		Speaker Impedance	4Ω	
Power Off $\leq$ 8WDimensions (with tilt/ swivel stand)Width46.5 cm / 18.3 inchesHeight43.6 cm / 17.2 inchesDepth44.2 cm / 17.4 inches	ower	Normal	≤ 120W	
Dimensions (with tilt/ swivel stand)Width46.5 cm / 18.3 inchesHeight43.6 cm / 17.2 inchesDepth44.2 cm / 17.4 inches	onsumption	Stand-by/Suspend	≤ 15W	
tilt/ swivel stand)Height43.6 cm / 17.2 inchesDepth44.2 cm / 17.4 inches		Power Off	≤ 8W	
Depth         44.2 cm / 17.4 inches	imensions (with	Width	46.5 cm / 18.3 inches	
	It/ swivel stand)	Height	43.6 cm / 17.2 inches	
Power Input Europe AC 200-240V 50Hz 1.5A		Depth	44.2 cm / 17.4 inches	
	ower Input	Europe	AC 200-240V 50Hz 1.5A	
Others AC 100-240V 50/60Hz 2.0A		Others	AC 100-240V 50/60Hz 2.0A	
The products should be used according to the Powe		The products should be used according to the Power		
requirements of each ID LABEL.		requirements of each ID LABEL.		
Weight         Net         18.96 kg (41.80 lbs)	Veight	Net	18.96 kg (41.80 lbs)	
Environmental Operating Condition	invironmental	Operating Condition		
Conditions Temperature 10 °C to 40 °C	Conditions	Temperature	10 °C to 40 °C	
Humidity 10 % to 90 % non-Condensing		Humidity	10 % to 90 % non-Condensing	
Storage Condition		Storage Condition		
Temperature 0 °C to 60 °C		Temperature	0 °C to 60 °C	
Humidity5 % to 90 % non-Condensing		Humidity	5 % to 90 % non-Condensing	

#### NOTE

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