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Color Monitor

StudioWorks

700M/700ME

**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.



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.

Important Precautions

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential electrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing.

On Safety

Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards if not being provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

The power supply cord is used as the main disconnect device. Ensure that the socket-outlet is easily accessible after installation.

Operate the monitor only from a power source indicated in the specifications of this manual or listed on the monitor. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Do not Open the Monitor.

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the monitor is not operating properly.

To Avoid Personal Injury :

- Do not place the monitor on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

To Prevent Fire or Hazards:

- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.
- Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this monitor.
- During a lightning storm or when the monitor is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

Important Precautions

On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

Monitors are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore, NEVER:

- Block the bottom ventilation slots by placing the monitor on a bed, sofa, rug, etc.
- Place the monitor in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the monitor near or over a radiator or heat source.

On Cleaning

- Unplug the monitor before cleaning the face of the monitor screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the monitor screen because overspray may cause electrical shock.

On Repacking

- Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

Connecting the Monitor

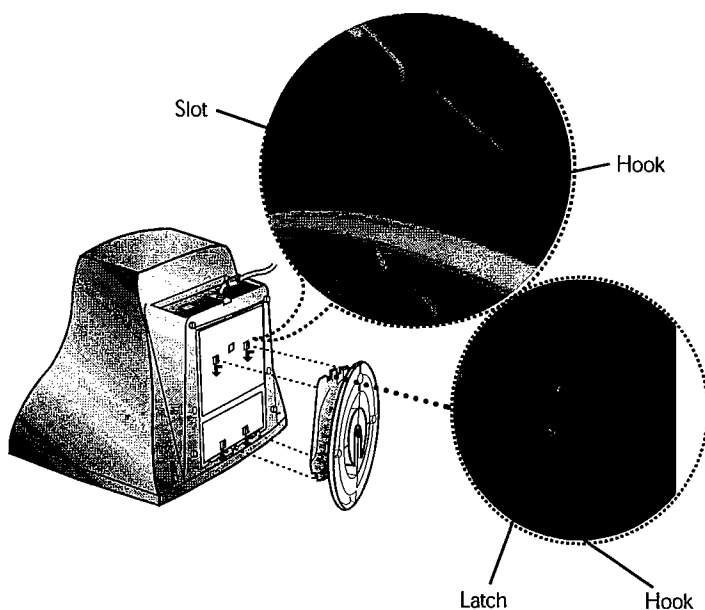
- Before setting up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices.
- Carefully set the monitor face-down with the underside facing you.

Connecting the Tilt/Swivel stand

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.

NOTE

- This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.



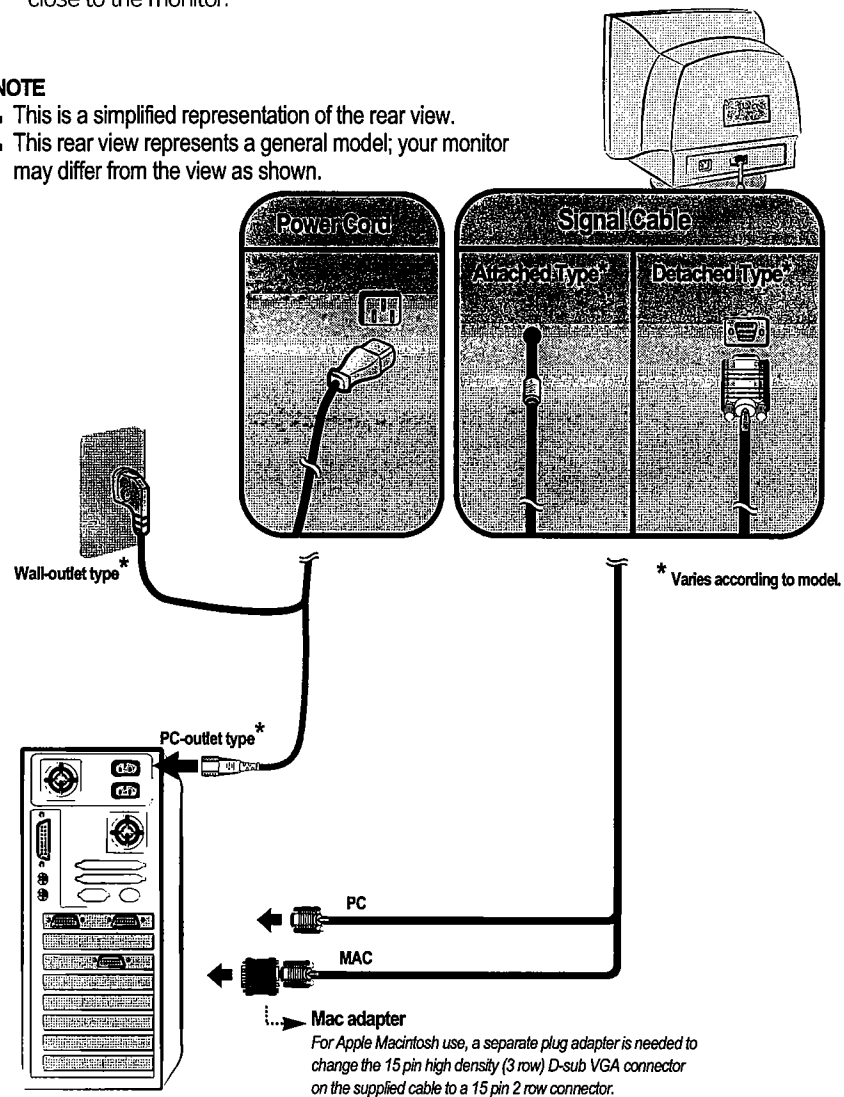
Connecting the Monitor

Using the Computer

1. Connect the signal cable. When mated, tighten the thumbscrews to secure the connection.
2. Connect the power cord into a properly power outlet that is easily accessible and close to the monitor.

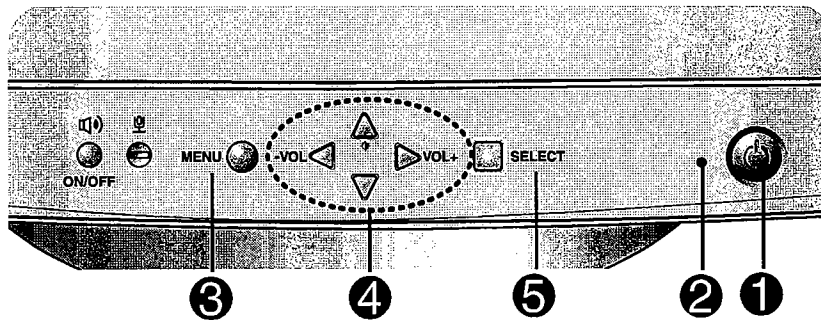
NOTE

- This is a simplified representation of the rear view.
- This rear view represents a general model; your monitor may differ from the view as shown.

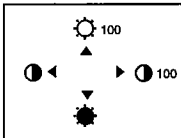


Control Panel Functions

Front Panel Controls



Control	Function
1 Power Button	Use this button to turn the monitor on or off.
2 Power (DPMS) Indicator	This Indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode, this indicator color changes to amber.
3 MENU (or OSD) Button	Use this button to enter or exit the on screen display.
4 ▲▼/◀▶ Buttons	Use these buttons to choose or adjust items in the on screen display.
5 SELECT (or SET) Button	Use this button to enter a selection in the on screen display.

Control	Direct Access Function
	▲, ▶ Button Bring up Contrast adjustment ▲, ▲ Button Bring up Brightness adjustment
The Contrast and Brightness functions are also available in the On Screen Display (OSD) menu.	

On Screen Display (OSD) Control Adjustment

Screen Adjustment

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

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

■ Case 1

MENU → ▲ ▼ → SELECT → ▲ ▼ ◀ ▶ → SELECT → MENU

■ Case 2

OSD → ▲ ▼ → SET → ▲ ▼ ◀ ▶ → SET → OSD

- 1** Press the **MENU (or OSD) 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 (or SET) Button**.
- 3** Use the **▲ ▼ / ◀ ▶ Buttons** to adjust the item to the desired level.
- 4** Accept the changes by pressing the **SELECT (or SET) Button**.
- 5** Exit the OSD by pressing the **MENU (or OSD) Button**.

On Screen Display(OSD) Selection and Adjustment

The following table indicates all the On Screen Display control, adjustment, and setting menus.

Main menu	Sub menu			Reference
 BRIGHTNESS/ CONTRAST	Brightness		●	To adjust the brightness and contrast of the screen
	Contrast		●	
 POSITION	V Position		●	To adjust the position of the screen
	H Position		●	
 SIZE	V Size		●	To adjust the size of the screen
	H Size		●	
 SHAPE	Tilt		●	To adjust the shape of the screen
	Side Pincushion		●	
	S Pincushion Balance		●	
	Parallelogram		●	
	Trapezoid		●	
	H Corner			
	Top Corner			
	Bottom Corner			
 COLOR	PRESET	6500K	●	To customize the color of the screen
		9300K	●	
	Temp		●	
	R/G/B(User Color)		●	
 SETUP	Video Level		●	To customize the screen status for a user's operating environment
	Language		●	
	OSD Time		●	
 SPECIAL	Degauss		●	To improve the clarity and stability of the screen
	Recall		●	
	Reset		●	
	Moire	H Moire	●	
		V Moire	●	
	Purity			
● : Adjustable				

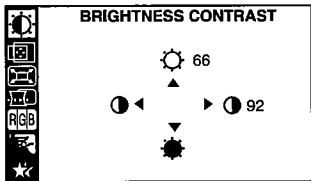
On Screen Display(OSD) Selection and Adjustment

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

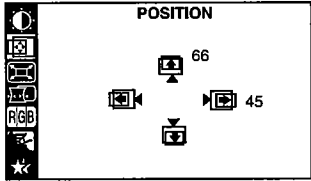
NOTE

The order of icons may differ depending on the model (A8-A11).

To adjust the brightness and contrast of the screen

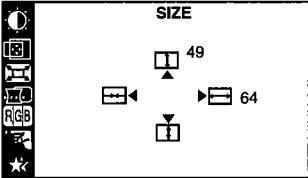
OSD Adjust	Description
	 Brightness To adjust the brightness of the screen.
	 Contrast To adjust the contrast of the screen.

To adjust the position of the screen

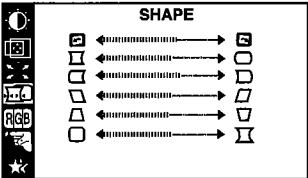
OSD Adjust	Description
	 Vertical Position To move image up and down.
	 Horizontal Position To move image left and right.

On Screen Display(OSD) Selection and Adjustment

To adjust the size of the screen

OSD Adjust	Description
	 Vertical Size To adjust image height.  Horizontal Size To adjust image width.

To adjust the shape of the screen

OSD Adjust	Description
	 Tilt To correct image rotation.  Side Pincushion To correct a concave or convex bowing of the image.  Side Pincushion Balance To correct the balance of both sides bowing.  Parallelogram To correctly adjust the skew of the image.  Trapezoid To correct geometric distortion.  H Corner*  Top Corner*  Bottom Corner* To correct an irregular distortion of the displayed image.

* This function is available for designated models only. **PAGE A7**

On Screen Display(OSD) Selection and Adjustment

To customize the color of the screen

OSD Adjust	Description
 COLOR PRESET 6500K 9300K TEMP ◀────────────────▶ RED ◀────────────────▶ GREEN ◀────────────────▶ BLUE ◀────────────────▶	PRESET 6500K/ 9300K Select the screen color. • 6500K: Slightly reddish white. • 9300K: Slightly bluish white. TEMP Select the screen temperature which you prefer among reddish or bluish or any color in between. RED GREEN BLUE Set your own color levels.

To customize the screen status for a user's operating environment

OSD Adjust	Description
 SETUP VIDEO LEVEL ▶ 0.7V LANGUAGE ▶ ENGLISH OSD TIME ▶ 10SEC.	VIDEO LEVEL This item is used to select the monitor's input signal level. The normal level used for most PCs is 0.7V. If the screen becomes suddenly washed-out or blurred, please select 1.0V and try again. LANGUAGE To choose the language in which the control names are displayed. OSD Menus are available in 11 languages: English, German, French, Spanish, Italian, Swedish, Finnish, Portuguese, Korean, Chinese and Russian. OSD TIME Set the OSD time, i.e. the length of time a menu will remain on-screen before it shuts off automatically. Adjust the time to 5, 10, 20, 30 or 60 seconds.

On Screen Display(OSD) Selection and Adjustment

To improve the clarity and stability of the screen

OSD Adjust	Description
 SPECIAL DEGAUSS ▶ ON RECALL ▶ ON RESET ▶ ON MOIRE ▶ H: 0/V: 0 PURITY ▶ 50 1024X768 /85Hz PRESET MODE	DEGAUSS To manually demagnetize the screen to avoid showing incorrect images or colors. RECALL You can use this function to reload the modified parameters for screen display operation, as specified by the user after purchase: <i>Position, Size, Side Pincushion, Side Pincushion Balance, Parallelogram, Trapezoid</i> (These recalled options may differ depending on the mode selected: <i>Preset, User, or New</i>). If you don't want to recall the monitor to these modified settings, use the ▲ ▼ button to select CANCEL and then press the SELECT (or SET) button. RESET Return to all factory default settings except "LANGUAGE": <i>Brightness, Contrast, Tilt, Color 9300K, Video Level, OSD Time, Moire</i> (These reset options may differ depending on the mode selected: <i>Preset, User, or New</i>). If you don't want to reset the monitor, use the ▲ ▼ button to select CANCEL and then press the SELECT (or SET) button. MOIRE This item allows you to reduce the degree of moire. (Moire is caused by interference Horizontal Scan Line with the periodical dot screen). It is normally OFF(H:0/V:0). The moire adjustments may affect the focus of the screen. Moire adjustments may shake slightly while the moire reduction function is on. PURITY* Use to adjust the purity on the screen if the color appears uneven.

* This function is available for designated models only. **PAGE A7**

Troubleshooting

Check the following before calling for service.

No image appears

- | | |
|--|--|
| <ul style="list-style-type: none">● Is the power cord of the monitor connected?● Is the power indicator light on?● Is the power on and the power indicator green?● Is the power indicator amber?● Do you see an "OUT OF FREQUENCY" message on the screen?● Do you see a "SELF DIAGNOSTICS" message on the screen? | <ul style="list-style-type: none">• Check and see if the power cord is connected properly to the power outlet.• Press the Power button.• Adjust the brightness and the contrast.• If the monitor is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.• This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the monitor. See the 'Specifications' section of this manual and configure your monitor again.• This message appears when the signal cable between your PC and your monitor is not connected. Check the signal cable and try again. |
|--|--|

The screen is flickering

- | | |
|--|---|
| <ul style="list-style-type: none">● Is the vertical frequency less than 70Hz or is your monitor set to the interlaced mode?● Do you have any magnetic material such as adapter, or high-voltage line near to your monitor?● Do you hear a "~ding" sound while the monitor is flickering? | <ul style="list-style-type: none">• Set the vertical frequency to 72Hz or higher, and consult the video card user manual for instructions on converting to a non-interlaced mode. (You can set this option under the Display icon of the Control Panel.)• Remove magnetic sources, such as power adapters, speakers, or high-voltage lines, away from the monitor.• Use the normal degaussing function. This function clears the screen and reduces any screen blur that may occur due to the surrounding magnetic field. The screen may flicker for about 5 seconds, accompanied by a "~ding" sound. |
|--|---|

Troubleshooting

The screen color is not normal.

- | | |
|---|---|
| <ul style="list-style-type: none">● Do you see basic discoloration (16 colors)?● Is the screen color unstable or monochrome?● Do you see black dots on the screen?● Do you see a partial blurring on the screen? | <ul style="list-style-type: none">• Set the color depth to 256 colors or higher: use 'Control Panel' → 'Display' → 'Settings' → 'Color Palette'• Check the connection of the signal cable. Or pull out the video card of the PC and insert it again.• This is due to a small amount of foreign or abnormally florescent material that became fastened on the mask during manufacturing. It will not affect product performance.• This happens due to interference from surrounding magnetic fields, as created when speakers, steel structures, or high-voltage lines are placed near the monitor. Remove any such materials from the immediate vicinity and use the DEGAUSS icon on the screen adjustment menu to fix the screen. |
|---|---|

I see an after-image on the screen.

- | | |
|--|---|
| <ul style="list-style-type: none">● Do you see the after-image even when you turn off the monitor? | <ul style="list-style-type: none">• A premature aging of the monitor pixels may cause the prolonged display of a single image on the screen. Be sure to use a screen saver to maximize the service life of the monitor. |
|--|---|

I see waves on the screen.

- | | |
|---|--|
| <ul style="list-style-type: none">● Do you see the wave directly on the screen? | <ul style="list-style-type: none">• This occurs in inverse proportion to the screen focus, which can be caused by a particular frequency or video card. Brighten the screen and use the 'MOIRE' icon on the screen adjustment menu to adjust the screen. |
|---|--|

Have you installed the monitor driver?

- | | |
|--|---|
| <ul style="list-style-type: none">● Have you installed the monitor driver? | <ul style="list-style-type: none">• Be sure to install the monitor driver from the monitor driver CD (or diskette) that comes with your monitor. Or, you can also download the driver from our web site: http://www.lge.com. |
|--|---|

Specifications

Picture Tube	17 inches (16.0 inches viewable) 90 degree deflection 0.27mm dot pitch AGARAS(Anti-Glare Anti-Reflective Anti-Static) coating	
Sync Input	Horizontal Freq.	30 - 70kHz (Automatic)
	Vertical Freq.	50 - 160Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative
	Signal Input	15 pin D-Sub Connector
Video Input	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive
	Resolution(max)	1280 x 1024@60Hz
Plug&Play	DDC 2B	
Power Consumption	Normal	≤ 73W
	Stand-by/Suspend	≤ 15W
	Power Off	≤ 8W
Dimensions & Weight (with tilt/swivel stand)	Width	39.1 cm / 15.4 inches
	Height	45.0 cm / 17.7 inches
	Depth	41.6 cm / 16.4 inches
	Net	19.0 kg (41.88 lbs)
Power Input	AC 100-240V 50/60Hz 2.0A	
Environmental Conditions	Operating Conditions	
	Temperature	0°C to 40 °C
	Humidity	10 % to 90 % non-Condensing
	Storage Conditions	
	Temperature	-20°C to 60 °C
	Humidity	5 % to 90 % non-Condensing
Tilt/Swivel Stand	Attached (), Detached (O)	
Signal cable	Attached (O), Detached ()	
Power cord	Attached or Detached	
Regulations	700M :MPR-II	
	700ME:TCO99	

NOTE

Information in this document is subject to change without notice.

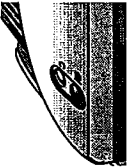
Specifications

Preset Modes (Resolution)

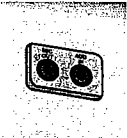
Display Modes (Resolution)			Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VESA	640 x 480	37.50	75
2	VESA	800 x 600	46.88	75
3	VESA	800 x 600	53.68	85
4	VESA	1024 x 768	68.677	85

Using the Audio Functions

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

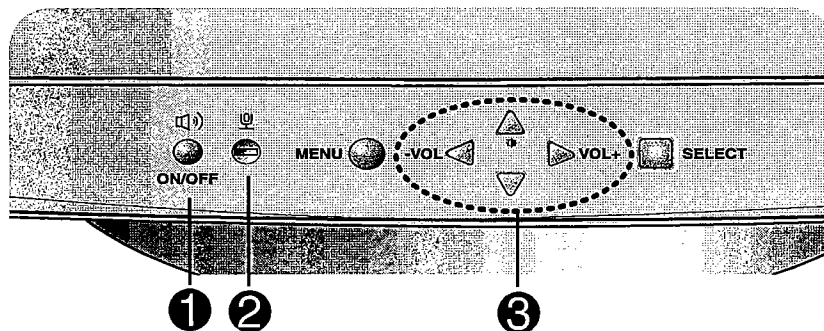
On the left side there is a MIC (Microphone) jack. By plugging a microphone in here, it may reduce the long length of cable needed to reach the PC's sound card. In order to use this MIC jack, you need to use a cable (supplied) to plug into the rear of the monitor (MIC OUT) and into the MIC input jack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

Using the Audio Functions

Front Panel Controls



Control	Function
1 Audio Mute	Use to turn ON/OFF audio.
2 Microphone	Built-in Microphone.
3 ◀ ▶ Buttons	Brings up to the audio menu.
▲ ▼/◀ ▶ Buttons	Use these buttons to choose or adjust items in the on screen display.

Audio Selection and Adjustment

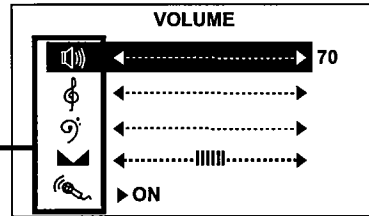
You were introduced to the procedure of selection and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the items that are shown on the main Menu.

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



On Screen Display(OSD) Selection and Adjustment

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



Main Menu		Description
 VOLUME	●	Raises or lowers audio level.
 TREBLE	●	Raises or lowers treble level.
 BASS	●	Raises or lowers bass level.
 BALANCE	●	Changes balance of left/right speaker level.
 MICROPHONE	●	Enables or disables microphone usage.
● : Adjustable		

NOTE

- The order of icons may differ depending on the model.

Audio Specifications

Audio Specifications

Audio	RMS Audio Output	1W + 1W (Right + Left)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8Ω