

# **Table of Contents**

- GETTING STARTED.....2**
  - INTRODUCTION.....2
  - FEATURES.....2
  - UNPACKING AND CHECKING OF THE PACKAGE CONTENTS.....3
  - INSTALLING THE MONITOR.....4
- HOW TO OPERATE THE MONITOR.....7**
  - SUPPORTED TIMING..... 8
  - HOW TO USE THE OSD (ON SCREEN DISPLAY).....9
  - OSD OPERATING TABLE.....12
  - TO ADJUST THE VIEWING ANGLE.....14
- POWER MANAGEMENT.....14**
- TROUBLESHOOTING PROCEDURES.....15**
- SAFETY RULES COMPLIANCE STATEMENT.....16**
  - FCC COMPLIANCE STATEMENT.....16
  - CE COMPLIANCE STATEMENT.....16
  - CUL COMPLIANCE STATEMENT.....16
- FOR YOUR SAFETY.....17**
- SPECIAL NOTES ON LCD MONITORS.....18**
  - CLEANING.....19

# GETTING STARTED

**WARNING: Do not operate the LCD monitor with unspecified power supply.**

**Usage of incorrect voltage will cause malfunction and may cause fire or electric shock.**

## Introduction

Bright and sharp images of text and graphics are what you will find with your 19" LCD color monitor. They provide a maximum resolution of 1440x900 pixels with a flicker-free display at 60~75Hz refresh rate and offer bright, sharp and vibrant color display without the radiation emission and hazards of CRT monitors.

## Features

· Support WXGA+ resolution of 1440x900 pixels

**Important Note:** Please verify your video card supports the native, wide-screen resolution of 1440x900 for optimal picture display.

· With LVDS (Low Voltage Differential Signaling) as interface

· Wide viewing angle

· Wide tilting angle

· VESA DPMS-compliant power saving: automatically powers down the monitor after a defined period of inactivity

· Built-in Power Supply

· One-button Auto Configure: Auto adjusts the screen to optimize the picture displayed.

· Windows 95/98/2000/XP Plug & Play Compliant

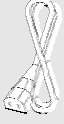




· Versatile, functional & User-friendly OSD

· Plug & Play: Conform to the VESA standards and support DDC2B spec.

## Unpacking and Checking of the Package Contents

1. Before unpacking your LCD Monitor, prepare a stable, level and clean surface near a wall outlet for your LCD Monitor.
2. Set the LCD Monitor box in an upright position and open from the top of the box before removing the right/left cushions.

### ❖ Accessories

Picture	Name	Length	Quantity
	Power Cord	1.5m	1 pcs
	VGA Cable	1.8m	1 pcs
	DVI-D Cable	1.8m	Optional
	User Manual	/	1 pcs
	Warranty Card	/	1 pcs

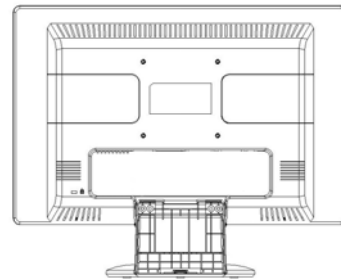
## Installing the Monitor

- **DO NOT** install the monitor where sudden temperature changes may occur, or in humid, dusty or smoky areas as it may cause fire, electric shock or damage.
- **DO NOT** place your LCD Monitor near a window as it may be severely damaged if exposed to rain, water, moisture or sunlight.
- **MAINTAIN** good ventilation; covering of ventilation slits or holes may cause fire.
- **PLACE** the monitor at least 4" (or 10 cm) away from the walls
- **SAFE** Operating temperature of the LCD Monitor is in the range of 0 to +40°C.

### ❖ **Connecting Cables to PC and Monitor**

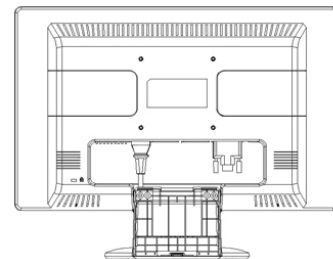
#### ● **Step 1.**

1. Slide the base plate into the monitor stand until you hear a "clicking sound" indicating it has been locked securely.
2. Set the monitor on the table and face the back of the monitor.
3. Have the power cord/cables ready with the rear stand cover placed on the side.
4. Attach the stand cover after cables have been connected properly. *(Note: While attaching the rear stand cover, the "Clicking Sound" indicates it has been hooked up properly.)*



#### ● **Step 2.**

5. Use VGA cable to connect to the VGA jack of the LCD Monitor. Make sure the cable head is connected securely.
6. **Dual Mode:** If your system is Dual signal model, then connect the DVI cable to the DVI port on the LCD Monitor. **(DVI cable not included.)**
7. Plug the female end of the power cord into the monitor's AC port.

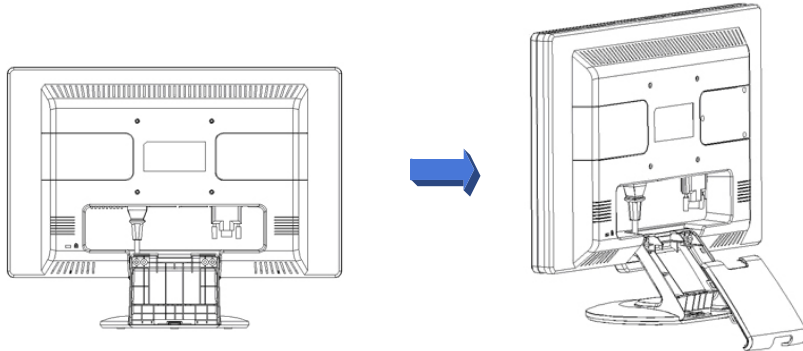


● **Step 3.**

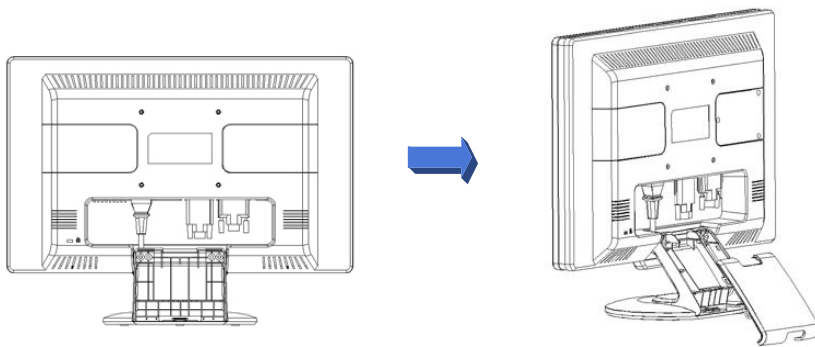
8. Organize the power cord and cables to be seated into the cable ditches properly.



**For Analog only**



**For Dual Mode**



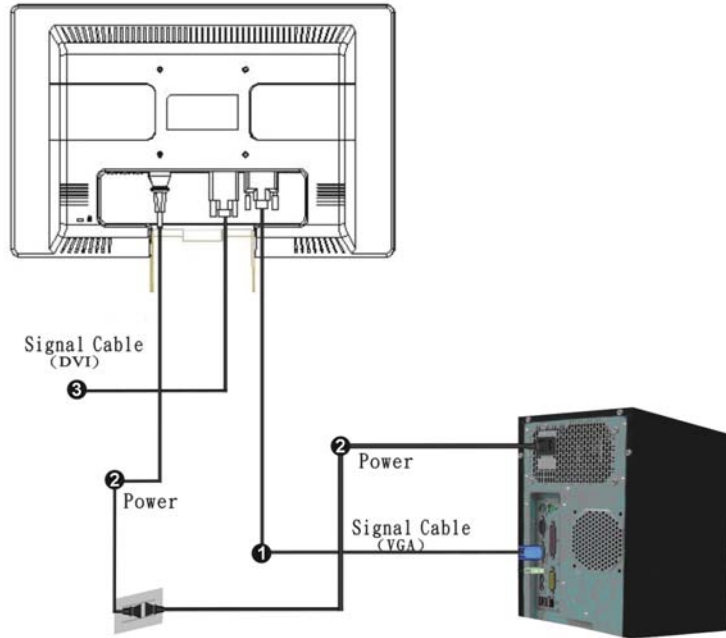
● **Step 4.**

9. Connect the VGA cable to the VGA port of the PC system. Make sure the cable head is connected securely. **(Note: If your system is Dual signal model, then use the DVI cable (not included) to connect to the DVI port of PC)**

● **Step 5.**

10. Connect the male end of the power cord into a wall socket.

11. Turn on your computer and then turn on your LCD Monitor.

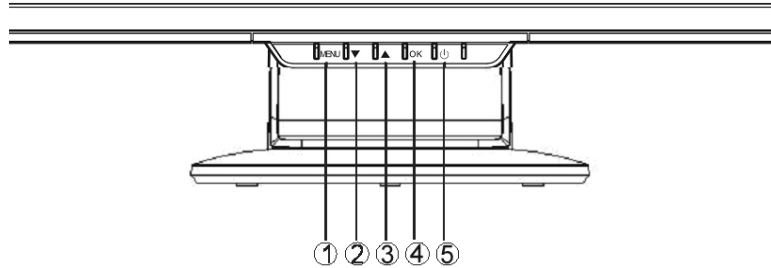


❖ **Connectivity Chart**

❶ <b>VGA connector</b>	Connect with VGA cable.
❷ <b>Power</b>	Plug into the AC wall socket.
❸ <b>DVI connector</b>	Connect with detachable DVI cable. * <b>DVI-D cable not included</b>


# How to Operate the Monitor

Users can adjust the picture to the desired brightness and sharpness by following the instructions.



<i>Buttons</i>		<i>Functions</i>
①	<b>MENU</b>	To access the main menu Enters the option or sub-menu
②	▼	Counter-clockwise movement in the OSD menu Decreases function setting level
③	▲	Clockwise movement in the OSD menu Increases function setting level
④	<b>OK</b>	Auto Configure: Automatically adjusts clock, phase and image positions to optimal state Exit OSD Menu
⑤	<b>Power Switch</b>	Power ON/OFF the monitor Green – Normal operation Amber – Power Management

# Supported Timing

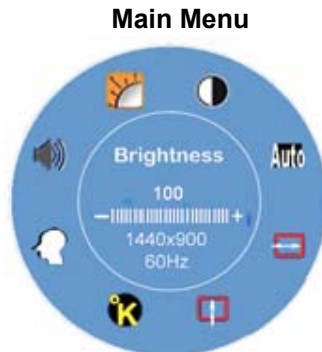
Display Mode			Analog & Digital		
			Horizontal Frequency	Vertical Frequency	
<b>VESA</b>	VGA	640 x 480	31.5 KHz	60 Hz	
			37.5 KHz	75 Hz	
			37.9 KHz	72 Hz	
			720 x 400	31.5 KHz	70.1 Hz
	SVGA	800 x 600	35.2 KHz	56.3 Hz	
			37.9 KHz	60.3 Hz	
			46.9 KHz	75.0 Hz	
			48.1 KHz	72.0 Hz	
	XGA	1024 x 768	48.4 KHz	60.0 Hz	
			56.5 KHz	70.1 Hz	
60.0 KHz			75.0 Hz		
SXGA	1280 x 1024	63.98 KHz	60.02 Hz		
		79.97 KHz	75.02 Hz		
	<b>WXGA+</b>	<b>1440 x 900 * (recommended)</b>	<b>55.94 KHz</b>	<b>59.88 Hz</b>	
<b>Macintosh</b>	VGA	640 x 480	35.0 KHz	66.7 Hz	
		832 x 624	49.7 KHz	74.6 Hz	
<b>MS-DOS</b>		640 x 350	31.5 KHz	70.1 Hz	

**\* Important Note:** Please verify your video card supports the native, wide-screen resolution of 1440x900 for optimal picture display.

## How to Use the OSD (On Screen Display)

### ❖ Structure of OSD

OSD function allows user to easily adjust the display to the desired quality. The OSD menu includes one main menu, one sub-menu of Advanced Setup and another sub-menu of Color Temperature.



- ☞ Press the **MENU** key to bring up the OSD Main Menu which allows user to adjust the value settings of “BRIGHTNESS”, “CONTRAST”, “H-POSITION”, “V-POSITION” and “COLOR “TEMPERATURE.” Use the “▲” and “▼” keys to circle through the function and press MENU to select (highlight) the desired function. Then press the “▲” or “▼” keys to adjust the feature setting level. (See the OSD Operating Table on page 12 for details)


### ❖ ADVANCED SETUP

#### ■ After the Main Menu pops up


- ☞ Press the ▲ or ▼ key to have the Advance Setup option selected and highlighted. Then press on the **MENU** key to pop up the sub-menu to proceed with adjustment on each item (See the OSD Operating Table on page 12 for details)
- ☞ Then, press the **OK** to exit the sub-menu
- ☞ Press the ▲ or ▼ key to select the feature which needs to be adjusted  
Or press the **OK** again to exit the Main Menu
- ☞ Select **RESET** to return all user settings back to the factory preset value.

## ❖ COLOR TEMPERATURE


### ■ After the Main Menu pops up

 Press the ▲ or ▼ key to have the Color Temperature option selected and highlighted. Then press on the **MENU** key to pop up the sub-menu to proceed with adjustment on each item (**See the OSD Operating Table on page 12 for details**)

 Press the **OK** to exit the sub-menu

 Press the ▲ or ▼ key to select the feature which needs to be adjusted, or press the **OK** again to exit the Main Menu

### ■ Auto Config (Disabled in DVI Mode)

 Press the **OK** button. The Auto Configure function will be executed, and the system will be set to the optimal condition after the execution. Then the Auto Config dialog will disappear automatically in a few seconds.



Auto Config

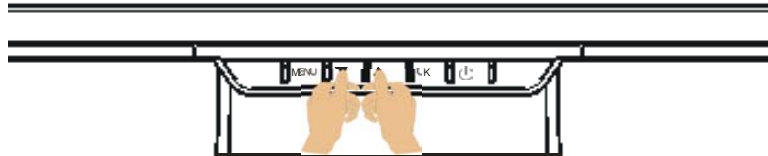
- **Input Signal Swapping between Analog and Digital ( For Dual Mode Only)**

- **While the Analog signal is “on”:**








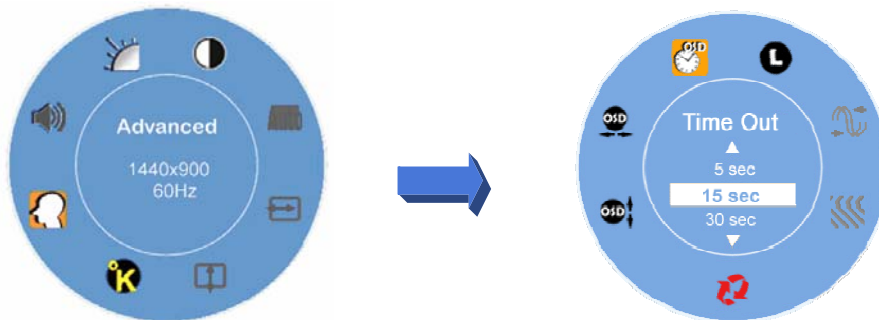
Press both “▲” and “▼” keys at the same time, and hold the keys for one second

to activate the input sourcing of Digital. The DVI indicator **DVI** will appear in the upper right corner, disabling the Analog Signal. To revert back to Analog mode, press both “▲” and “▼” keys at the same time again for one second. The Analog indicator **D-SUB** will show up in the upper right corner.



- ❖ **Special Notes for DVI Input**








In DVI mode, the **H- POSITION**, **V- POSITION** and **AUTO ADJUST** features will be disabled in the Main Menu. The indicators ,  and  will be grayed out. At the same time, the **CLOCK** and **PHASE** features will be disabled in Sub Menu as well, and the background color of both indicators  and  will be turned into gray.















## OSD Operating Table

### ❖ Main Menu

**Note:** Press **MENU** button to pop up the main OSD menu and press **MENU** button again to enter the brightness adjustment state to adjust the brightness to the desired value by pressing ▲ or ▼ key. The adjustment range is from 0 to 100. Press **OK** button to exit at any time.

Main Menu	Function Name	Description
	<b>BRIGHTNESS</b>	Adjust Brightness level
	<b>CONTRAST</b>	Adjust Contrast level
	<b>AUTO ADJUST</b>	Automatically adjusts clock, phase and image positions to optimal state <b>(Disabled in DVI Mode)</b>
	<b>H- POSITION</b>	Adjust screen horizontal position <b>(Disabled in DVI Mode)</b>
	<b>V- POSITION</b>	Adjust screen vertical position <b>(Disabled in DVI Mode)</b>
	<b>COLOR TEMPERATURE</b>	Native : reddish (Preset Color) Cool : bluish Warm : yellowish <b>User Color : Adjust Red, Green, Blue color settings individually</b>
	<b>ADVANCED SETUP</b>	Enter the advanced setup sub-menu to adjust OSD Timer, Languages, Clock, Phase, OSD Position and Reset

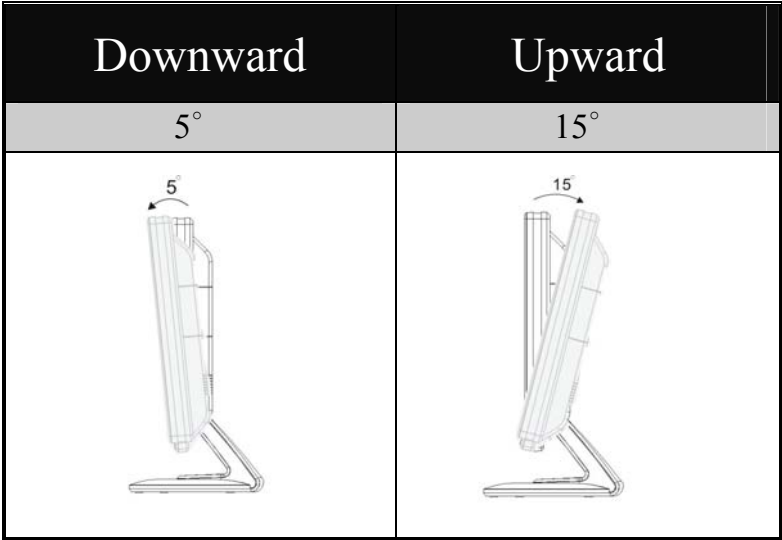
## ❖ SUB-MENU

Main Menu	Sub Menu	Function Name	Description
		RED	Adjust the value of red color as desired
		GREEN	Adjust the value of green color as desired
		BLUE	Adjust the value of blue color as desired
		TIME OUT	Determine the time that the OSD menu displays on the screen
		LANGUAGE	Select the desired language
		CLOCK	Adjust the PLL parameters to allow the operator control over the synchronization of the PLL clock <b>(Disabled in DVI Mode)</b>
		PHASE	Adjust the PLL parameters to allow the operator control over the synchronization of the PLL clock <b>(Disabled in DVI Mode)</b>
		RESET	Return all user settings back to the factory preset value
		V- POSITION	Adjust OSD vertical position
		H- POSITION	Adjust OSD horizontal position

**Note:** Press **MENU** button to enter the selection state. Then press **▲** or **▼** key to adjust the selection to the desired value on selected item. Press **OK** button to return to the main OSD menu. Press **OK** button to exit at any time.

**To Adjust the Viewing Angle**

The viewing angle can be tilted from downward 5° to upward 15° for optimal view angle setting. ( ±2° )



**Power Management**

The LCD Monitor complies with the VESA DPMS (version 1.0p) power management proposal. The VESA DPMS proposal provides three phases of power saving modes by detecting the horizontal or vertical sync signal.

Item	DPMS Mode	Display	Power LED	Power Consumption	Recovery Time	H-sync	V-sync
1	On	Normal	Green	Normal	---	On	On
2	Stand By	No Display	Amber	≤ 1W	3 sec	Off	On
				≤ 1W	3 sec	On	Off
3	Off	No Display	Off	≤ 1W	---	Off	Off

# Troubleshooting Procedures

If the LCD monitor fails to function correctly, please follow the following steps for a possible solution.

1. Perform the adjustments according to **How to Operate the Monitor**.
2. Refer to the following items if you cannot find a proper item listed in the **How to Operate the Monitor** section or if the problem remains.
3. If the problem you have experienced is not described below or you cannot correct the problem, stop using the monitor and contact your dealer or the nearest service center for further assistance.

PROBLEM	CHECK TO SEE
a) Power indicator does not light up.	If the power cord is firmly plugged in the socket.
	If the power switch is turned on.
	If the AC socket is OK. Please check using another piece of equipment.
b) Power indicator is green.	If the blank screen saver is active, touch the keyboard or mouse.
	Increase the CONTRAST and/or BRIGHTNESS settings.
	If the signal timing of the computer is within the spec of the monitor.
c) Power indicator is amber.	If the monitor is in power management mode, touch the keyboard or mouse.
	If the computer is ON.
	Check if the VGA signal cable is loose.
d) Display is too dark or too bright.	Please adjust "Contrast" or "Brightness" to the desired setting level.
	If the video output level of the computer is within the spec.
e) Display is not in the center.	If the signal timing of the computer is within the spec.
	Press "OK" button to perform auto adjustment / configuration.
f) Display is shaking.	If the power voltage is within the spec.
	If the signal timing of the computer is within the spec.

4. When "No Connection" message pops up and keeps moving on the blank screen, please check if the VGA cable is connected correctly.
5. When "Out of Range" message pops up and keeps moving on the blank screen, please wait for 15 seconds, then the display will come back to normal state. Please check and adjust the timing of input signal to the appropriate one.
6. When "No Signal" message pops up, please check if the PC is on.
7. 1440 x 900 screen resolution not available to select from Display Properties:
  - a) Shutdown and then reboot your PC
  - b) Verify that your PC video card supports this resolution

# **Safety Rules Compliance Statement**

## **FCC Compliance Statement**

This equipment has been tested and complied with Class B limits, pursuant to Part 15 of FCC Rules. These rules are designed to provide reasonable protection against harmful interference when the equipment is operated. If not installed or used in accordance with the installation instruction, it may cause harmful interference to radio communications. However, there is no guarantee that the interference won't occur even under the particular installation. If this equipment does cause harmful interference to radio or television reception, which can be detected by turning the equipment off and on, you are encouraged to try to improve the interference by one or more of the following measures:

- \* Reorient 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.

### **Note:**

For complying with the FCC limit to Class B computer units, you must use the shield signal and power cables attached with this unit.

FCC warns that any change or modification to this unit without the permission from the organization in charge of the consistency may void the user's right to operate the equipment.

### **Warning:**

This is a Class B product. It may cause harmful interference to the radio under the environments of any country. The user must take applicable measures to solve this problem.

## **CE compliance statement**

This LCD complies with the relevant CE standards, including:  
EN 55022, EN 55024, 89/336/EEC, 73/23/EEC and 93/68/EEC

## **CUL compliance statement**

This LCD complies with the relevant American and Canadian standards, including:  
UL60950-1 and CAN/CSA –C22.2 No. 60950-1-03

# FOR YOUR SAFETY

## WARNING

### **ALWAYS OPERATE UNDER SPECIFIED POWER SUPPLY**

Usage of incorrect voltage will cause malfunction and may cause fire or electric shock.

### **PROTECT and CORRECTLY USE THE CABLE**

1. Do not pull or bend the power cable and signal cable or place the monitor or any heavy objects on the cables.
2. If the cables are damaged, they may cause fire or electric shock.

### **IMMEDIATELY STOP OPERATING THE MONITOR WHEN YOU DETECT ANY ABNORMAL OCCURENCE**

If you notice any abnormal phenomenon such as strange noise, smoke or smells, unplug the monitor and contact your dealer or the nearest service center immediately.

### **DO NOT REMOVE THE CABINET AND DO NOT PUT ANY FOREIGN OBJECT INSIDE THE MONITOR**

It may cause fire, electric shock or damage when operating the monitor with foreign objects inside.

### **DO NOT USE THE MONITOR NEAR WATER**

Operating the monitor in close proximity to water where water may be spilt or splashed onto the monitor may cause fire or electric shock.

### **BAD WEATHER CONDITIONS**

It is advisable not to operate the monitor during heavy thunderstorms as intermittent breaks in power may cause malfunction. Do not touch the plug under these circumstances as it may cause electric shock.

## CAUTION

### **DISCONNECT CABLES WHEN MOVING THE MONITOR**

When moving the monitor, always turn off the switch, unplug the monitor, and disconnect the signal cable. If the cables are not properly disconnected when moving the monitor, it may cause fire or electric shock.

### **DO NOT TOUCH THE PLUG WITH WET HANDS**

Pulling or inserting the plug with wet hands may cause electric shock.

### **HOLD THE PLUG WHEN DISCONNECTING**

To disconnect the power cable or signal cable, always pull the cable by the plug. Never pull on the cable as this may cause fire or electric shock.

## **SPECIAL NOTES ON LCD MONITORS**

*The following are normal with LCD monitors and do not indicate a problem.*

- When first turning on the LCD monitor, if the picture does not fit in the display area, it is because of the type of computer that is used. In such case, adjust the picture position to its correct position. **(See the OSD Operating Table on page 12 for details)**
- The screen may flicker during initial use. Turn off the power switch and then turn it on again. The flickering should disappear.
- Users may notice a little uneven brightness on the screen depending on the desktop pattern they use. It is normal for LCD monitors to show such uneven brightness.
- Due to the nature of the LCD screen, switching of images after a prolonged time of displaying the same image, the image from the previous screen may remain. In such case, the screen is recovered slowly by changing the image or turning off the power switch for hours.
- If the screen becomes dark, flickers, or does not light-up, contact your dealer or the nearest service center for a backlight replacement. Do not attempt to replace it yourself.
- If you need to return your unit for service and the original packaging was discarded, please contact your dealer or the nearest service center for advice or replacement of packaging.
- Slight blurriness of text and images when running at lower resolution other than 1440 x 900. This is due to pixel sharing. You need to increase to native resolution of 1440 x 900 for sharpest text and image. If 1440 x 900 is not an available screen resolution, please verify that your video card supports this resolution. You may also need to update to the most current version of your video card drivers. ***Make sure to shutdown and reboot your PC with the new monitor plugged in for the PC to detect the specific Plug & Play settings of the monitor.***

## Cleaning

### **WARNING**

- If you dropped any material or liquid such as water onto the monitor when cleaning, unplug the power cable immediately and contact your dealer or the nearest service center. Always make sure your hands are dry when unplugging the power cable.

### **CAUTION**

- For safety reasons, turn-off the power switch and unplug the monitor before cleaning.
- Do not scratch or rub the screen with a hard object.
- Never use any of the following solvents on the LCD monitor. Such harsh chemicals may cause damage to the cabinet and the LCD screen.  
*Thinner Spray-type cleaner Benzene Wax Abrasive cleaner Acid or Alkaline solvent*
- Rubbing the cabinet with products made of rubber or plastic for a long period of time may cause degeneration or loss of paint on the cabinet.

### **Cabinet**

- Remove dirt with a lightly moistened cloth and a mild solvent detergent. Then wipe the cabinet with a soft dry cloth.

### **LCD**

- Periodic cleaning with a soft dry cloth is recommended.
- Do not use tissue to clean the screen. It may damage the LCD screen.