

# U.S.A.

## U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the 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 harmful 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 of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Connecting of peripherals requires the use of grounded shielded signal cables.

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# Adjusting your lcd monitor

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## General safety precautions

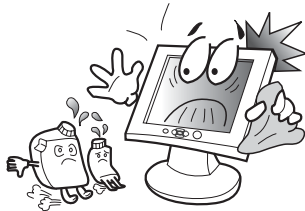
This Monitor has been engineered and manufactured to assure your safety. Please read this manual and comply with the warnings and the procedures to avoid any serious electrical shock and other serious damage.



1. Do not place anything heavy, wet or magnetic on the monitor or power cord. Do not cover the ventilation openings nor touch them with metallic or flammable material.



2. High temperature can cause troubles. Avoid operating the monitor in extreme heat, humidity or dusty areas. Extreme temperature may cause discoloration or damages.  
Ambient Temperature : 0°C ~ 40°C



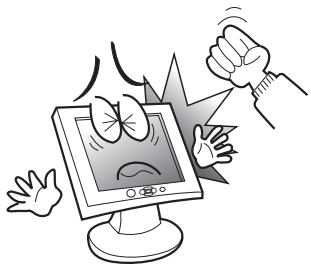
3. Do not use a solvent, such as benzene, to clean the monitor to prevent any damages to the LCD surface.



4. Do not use fine tools such as a pin or a pencil near the monitor to prevent any scratch to the LCD surface.



- 5.** Place the monitor on a flat surface to prevent it from falling.



- 6.** Do not apply any mechanical shocks to the machine.



- 7.** Install it in a well-ventilated area or secure enough space for ventilation.



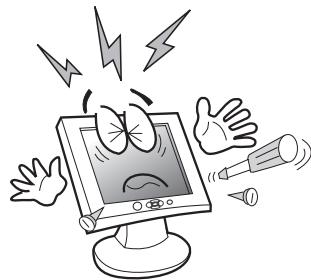
- 8.** Turn the monitor off before connecting it to the power outlet.



- 9.** Make sure that the power cord and the other cords are properly connected.



- 10.** Overloaded AC outlets and extension cords are dangerous. Also, the frayed power cords and the broken plugs may cause electric shock or fire.



- 11.** Do not open the monitor. There are no user-serviceable components inside. There is a risk of exposure to high-voltage electricity inside, even when power is turned off. If the display monitor does not operate properly, unplug the power cord and contact your dealer. Handling the electrical equipment carelessly will cause a serious electrical shock and other hazards.

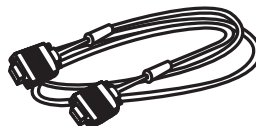
**CAUTION : RISK OF ELECTRIC SHOCK, DO NOT OPEN**

### Unpacking your monitor

Please make sure the following items are included with your monitor.  
If you find that any of these items are missing or appear damaged, contact your dealer immediately.



TFT LCD Monitor



15 Pin VGA signal cable



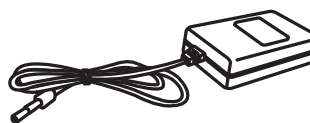
AC Power Cord



Floppy Disk (INF File)



User's Guide



AC/DC Power Adapter

*The power cord can be different depending upon different voltage areas.*

## Adjusting your lcd monitor

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### Viewing angle

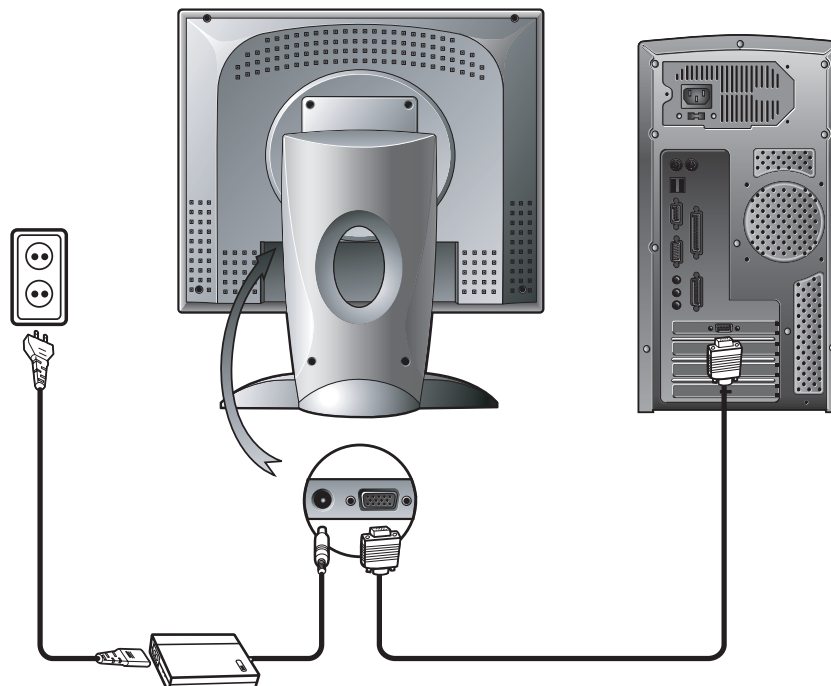
Your monitor was designed to allow you to adjust it to a comfortable viewing angle.

The viewing angle can be adjusted  $5^{\circ}$  to  $30^{\circ}$  forward and backward respectively as indicated by the arrow marks below.



### Connecting your monitor

**Be sure to turn the computer off before connecting the monitor**



- Connect the video signal cable (15Pin connector) to the system's 15 pin D-sub connector which is located on the back panel of the computer.
- Connect the power adaptor cord to the monitor and then to the power supply.
- After powering on the computer, adjust the display using the various controls provided. For further information on the installation procedure, please refer to the operating guide of the computer being used.

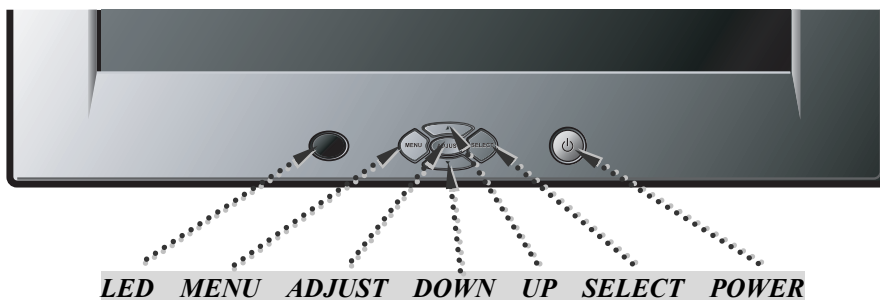


# Adjusting your lcd monitor

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## User controls

### Front control buttons



No.	Key name	Description
1	MENU	Opens the OSD menu.
2	ADJUST	Activates the auto adjustment function.
3	SELECT	Selects the main menu items and sub-menu items.
4	▲	Moves to the upper menu item or sub-menu item. Increases the value of the parameter.
5	▼	Moves to the lower menu item or sub-menu item. Decreases the value of the parameter.
6	POWER	Turns on/off the monitor.
7	LED	Indicates the status of the monitor. <ul style="list-style-type: none"><li>• Green : Normal operation.</li><li>• Blinking : Power saving mode or disconnected signal cable.</li></ul>

### OSD Function and adjustment

#### Main menu and control selection

Press the MENU key to access the main menu.  
The resolution and frequency are displayed at the bottom of the menu box.  
Place the color box on the control icon you wish to adjust by pressing using the ▼ or ▲ key.  
Press the SELECT key to access the control.

#### Exit menu

Press the MENU key to exit the OSD screen.

#### Auto exit

The OSD menu will disappear automatically after a few second of inactivity.

#### Auto save

The monitor automatically saves the new values when OSD closes.

#### Normal mode

When the video signal is working in normal display mode, power LED is lit green.

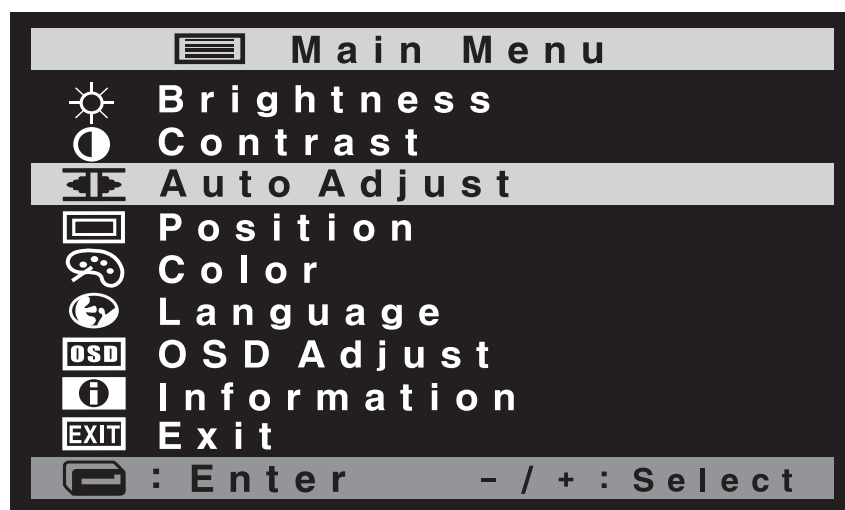
#### DPMS mode




The LED indicates different status when this unit operates in different power-saving modes.







#### Out of Range

When an unsuitable signal is detected, the OSD displays an Out of Range message.

### Menu adjustments






Icon	Settings and sub-menus	Description
	<b>BRIGHTNESS</b>	<ul style="list-style-type: none"><li>Adjusts the screen intensity.</li></ul>
	<b>CONTRAST</b>	<ul style="list-style-type: none"><li>Adjusts the contrast of the screen image.</li></ul>
	<b>AUTO-ADJUST</b>	<ul style="list-style-type: none"><li>Adjusts(automatically) the image position, the clock and the phase settings.</li></ul>

Icon	Settings and sub-menus	Description
	<b>POSITION</b>	<ul style="list-style-type: none"> <li>Adjusts the horizontal and vertical position of the screen image.</li> </ul>
	<b>COLOR</b>	<ul style="list-style-type: none"> <li>Displays the color control menu.</li> </ul>
	<b>LANGUAGE</b>	<ul style="list-style-type: none"> <li>Selects from five languages.</li> </ul>
	<b>OSD ADJUST</b>	<ul style="list-style-type: none"> <li>Displays the OSD position adjustment for the OSD menu. Selects the OSD display timing.</li> </ul>
	<b>INFORMATION</b>	<ul style="list-style-type: none"> <li>Information of input timing.</li> </ul>
	<b>EXIT</b>	<ul style="list-style-type: none"> <li>Exits from menus and sub-menus.</li> </ul>

## Adjusting your lcd monitor

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### Refining the picture

<b>Step 1</b>	At first display, a full screen, such as window background or "H" character should be achieved by using editor (eq ; notepad).
<b>Step 2</b>	<p>Adjust the screen to the center of the display (LCD), by using the top and bottom display controls (i.e. using Vertical position menu).</p> 
<b>Step 3</b>	<p>Adjust the screen to the center of the display (LCD) by using the right and left display controls (i.e. using Horizontal position menu).</p> 
<b>Step 4</b>	<p>Adjust the phase until the "H" character displays clear.</p> 
<b>Step 5</b>	Using the Contrast, Brightness, set the color to your preference.
<b>Step 6</b>	When you finish the adjustment, you can save your settings by pressing on the menu until the OSD screen has disappeared.

## Power management function

This monitor is equipped with a DPMS(Display Power Management Signaling) function that automatically cuts the power dissipation down to less than 5W when the computer is left unattended.

Although the monitor can be left in power-saving mode for longer periods, we recommend that you turn it off after your daily work.

Status	Description
Green	Power on.
Blink (Amber)	Power saving.
Red	Non operating / Abnormal operating.

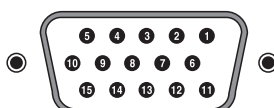
## Video input terminal

A 15Pin D-Sub connector is used as the input signal connector.

Each pin and assignment is shown in the table below.

Pin No.	Signal Name	Pin No.	Signal Name
1	RED	9	N.C.
2	GREEN	10	GROUND
3	BLUE	11	GROUND
4	GROUND	12	DDC SDA
5	GROUND	13	H-Sync
6	RED Ground	14	V-Sync
7	GREEN Ground	15	DDC SCL
8	BLUE Ground		

15Pin D-Sub connector



## Display modes

For the display modes listed below, the screen image has been optimized during production.

### Preset timing modes.

Mode	Display Mode	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Standard Type
VGA	640 x 350	31.5KHz	70Hz	IBM®
	720 x 400	31.5KHz	70Hz	IBM®
	640 x 480	31.5KHz	60Hz	Industry Standard
	640 x 480	37.9KHz	72Hz	VESA Standard
	640 x 480	37.5KHz	75Hz	VESA Standard
SVGA	800 x 600	37.9KHz	60Hz	VESA Guidelines
	800 x 600	48.1KHz	72Hz	VESA Standard
	800 x 600	46.9KHz	75Hz	VESA Standard
XGA	1024 x 768	48.4KHz	60Hz	VESA Guidelines
	1024 x 768	56.5KHz	70Hz	VESA Standard
	1024 x 768	60.0KHz	75Hz	VESA Standard

## Troubleshooting

**Warning :** This section will try to anticipate potential problems that you may encounter in the day-to-day use of your monitor.  
If after trying the suggested solutions, your monitor's symptom remains the same, contact your authorized service center.

### Troubleshooting problems

Problems		Corrective Actions
No Picture	LED ON	<ul style="list-style-type: none"> <li>• Using OSD, adjust Brightness and Contrast to maximum or reset to their default settings.</li> </ul>
	LED OFF	<ul style="list-style-type: none"> <li>• Check the power switch.</li> <li>• Check if the AC power cord is properly connected to the AC adapter.</li> </ul>
	LED Blinking	<ul style="list-style-type: none"> <li>• Check if video signal cable is properly connected at the back of monitor.</li> <li>• Check if the power to computer system is ON.</li> </ul>
Display is not clear		<ul style="list-style-type: none"> <li>• Adjust the Frequency and Phase settings.</li> </ul>
Too light or too dark		<ul style="list-style-type: none"> <li>• Adjust the Brightness and Contrast settings.</li> </ul>
Image is not centered		<ul style="list-style-type: none"> <li>• Adjust the Horizontal and Vertical position settings using the OSD.</li> </ul>
Out of Range		<ul style="list-style-type: none"> <li>• Check the maximum resolution and the frequency on the video port of your computer.</li> </ul>
Picture is scrambled		<ul style="list-style-type: none"> <li>• Check the signal cable connection between the computer and monitor.</li> </ul>



<b>Problems</b>	<b>Corrective Actions</b>
<b>Picture is fuzzy</b>	<ul style="list-style-type: none"> <li>• Perform Auto adjustment.</li> </ul>
<b>Picture bounces or has wavy oscillations</b>	<ul style="list-style-type: none"> <li>• Check the signal cable connection between computer and monitor.</li> </ul>
<b>Picture appears to be ghosting</b>	<ul style="list-style-type: none"> <li>• Check the signal cable connection between computer and monitor.</li> </ul>
<b>Color is not uniform</b>	<ul style="list-style-type: none"> <li>• Adjust the color settings using the color menu.</li> </ul>
<b>The colors are distorted with dark or shadowed areas</b>	<ul style="list-style-type: none"> <li>• Adjust the color settings using the color menu.</li> </ul>
<b>The power indicator is blinking Amber</b>	<ul style="list-style-type: none"> <li>• The monitor is using its power management system. Check the power management utility on your computer.</li> </ul>

## Option

### Pivot function

#### Winportrait installation instruction, WINDOWS 95/98/NT 4.0

1. Quit all the application programs you running.
2. Make sure your graphics card Manufacturer's (native) drivers are installed before installing Winportrait software.
3. Insert the pivot CD-ROM into the drive and select RUN from the START button.
4. Type D:\SETUP.EXE (replace D: with the letter of your CD-ROM drive if necessary).
5. After reading the license agreement, click agree to install.
6. Additional help message can be accessed by pressing the 'Help' button during installation.
7. The english.txt is located on the pivot CD-ROM.

#### Macportrait installation instructions, MAC/OS

1. Quit all the application programs you running .
2. Insert the pivot CD-ROM into your CD-ROM drive.
3. Double-click on the Macportrait installer and follow the instructions given on the screen.

## Specifications

<b>LCD viewable size</b>	<b>Type</b>	• 15.0" viewable diagonal TFT type
	<b>Pixel pitch</b>	• 0.297(H) x 0.297(V)mm
	<b>Glass surface</b>	• Anti-Glare, Hard Coating
<b>Viewable angle</b>		• L/R : 55°, U/D : 30°/ 55°
<b>Contrast ratio</b>		• 200:1 (typical)
<b>Brightness</b>		• 200 cd/m <sup>2</sup> (typical)
<b>Resolution</b>		• 1024 x 768
<b>Displayable color</b>		• 16.7M(Full color)
<b>Frame frequency (Refresh rate)</b>		• Support range : 56 to 75Hz • Recommended : 60Hz
<b>User controls</b>		• Auto-Adjust, Brightness, Contrast, Position, Color, Language, OSD Adjust
<b>Plug &amp; play</b>		• VESA DDC 1/2B
<b>I/O Connectors</b>		• DC Power in, VGA 15-pin D-sub
<b>Power</b>		• 100~240V
<b>Power consumption (Max.)</b>		• 40W
<b>AC/DC Adapter</b>		• Input : Universal AC100 ~ 240V • Output : DC 12V • TCO 99, TUV/GS, CB, UL/cUL, CSA, FCC, CE, VCCI, MPRII
<b>Active area</b>		• 304.1mm(H) x 228.1mm(V)
<b>Dimensions (Physical)</b>		• 380mm(W) x 410mm(H) x 150mm(D)
<b>Weight</b>		• 4.7Kg
<b>Option</b>		• Pivot software, Speaker