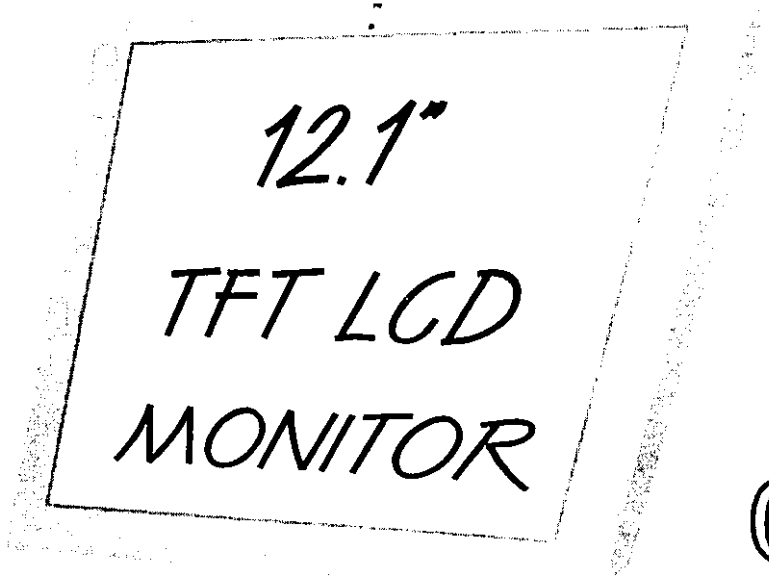
Appendix B

User's Manual

User Manual



98 Edition

FCC Compliance Statement

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, in accordance with Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user's guide, may cause harmful interference to radio communications.

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 distance 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.

FCC Warning:

To assure continued compliance, use only the provided grounded power supply cord and shielded interface cables when connecting the device to the computer. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate the device.

mportant Safeguards

Please read all of these instructions carefully before you use the device.
Save this manual for future reference.

- Unplug the LCD monitor from the wall outlet before cleaning.
- Do not spray liquid cleaners or aerosol cleaners directly on the device. Wet a cloth with a neutral detergent (e.g. clean water) and squeeze it tight, then clean the screen slightly with it.
- Do not expose the LCD monitor directly to rain, water, moisture or sunlight.
- Do not put anything over the Monitor-to-PC signal cord and make sure it is located properly so no one will step on it.
- Avoid pressure on the LCD screen to prevent permanent damage to the display.
- Do not attempt to service the monitor yourself. Improper operation may void your warranty. Refer all servicing to qualified service personnel.
- Safe storage environment of the LCD monitor is ranging between -20°C and 60°C. Permanent damage could occur if the LCD monitor is stored outside the safe range.
- Unplug the LCD monitor immediately and call a qualified service person under the following conditions:

1. The Monitor-to-PC signal cord is frayed or damaged.
2. If the monitor has been exposed to rain, liquid or water.
3. If the monitor has been dropped or the cabinet has been damaged.

Table of Contents

Introduction

Congratulations on your purchase of the TFT LCD monitor – a marvelous contribution of cutting edge technology.

The LCD monitor has been designed with serious thoughts to present the best performance for most possible applications. Its compact and slim profile is well suited in working locations where desk spaces are limited and precious. Or, you may even just remove the stand and mount the monitor on the wall or place it inside a shelf as you wish. Obviously, the lightweight of the LCD monitor makes it completely portable too.

The TFT LCD monitor displays sharper, more brilliant, crisper and flicker-free images. Complying with the power management regulations of VESA DPMS, the LCD monitor is extremely energy efficient and a power saver. Plus, the LCD monitor has extremely low radiation emissions and near zero electromagnetic fields which are supreme benefits.

Fully compatible with PC and MAC, the LCD monitor provides full interface for all sorts of related standards. Supported by "Plug and Play" complying with DDC1/DD2B, installation of the LCD monitor is simple and easy.

The On Screen Display menu provides the user a convenient interface to make the right adjustment for optimum display performance.

Enjoy your use of the LCD monitor !

Chapter 1 Installation

Before Unpacking

It is very important to locate the LCD monitor in a suitable environment.

- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the LCD monitor to the computer should be well considered too.

Unpacking

The LCD monitor comes with the following standard parts shown as below. Check and make sure they are included and in good condition. If anything is missing or damaged, contact the dealer immediately.

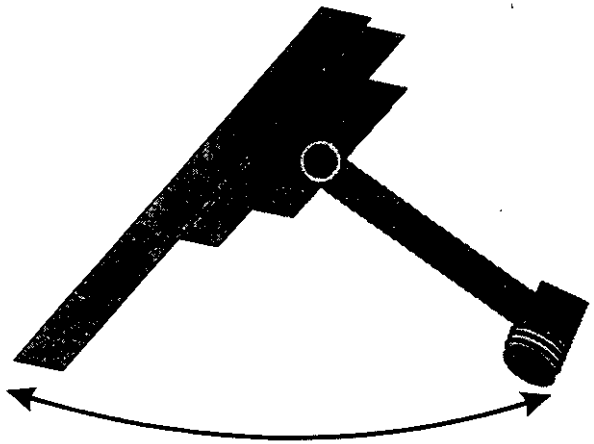
- The LCD Monitor
- Monitor-to-PC Signal Cable
- AC-DC Adapter
- Power Cord
- This User Manual

☞ It is better for you to keep the packing materials and the carton in case you might need them for packing or moving in the future.

Positioning

- If you plan to place the LCD monitor on a desk, make sure it is stable and the surface is level.
- The stand of the LCD monitor is adjustable to bring you a locating angle you will be most comfortable with. You are allowed to extend the locating angle up to 110 degree. Adjust it slowly, and you will find the range is segmented regularly.

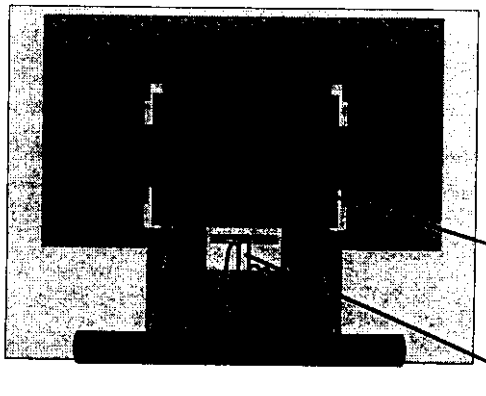
☞ Do not force the stand over its maximum range, or you will damage the monitor and the stand as well.



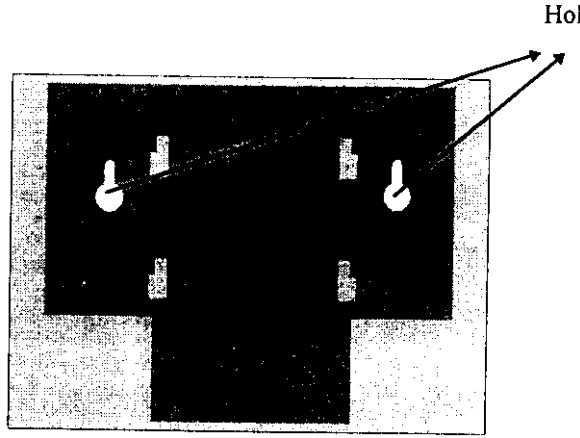
110°

Wall Mounting

If your working environment requests you to mount the LCD monitor on the wall or hang it up, you need to remove the stand first. It is very easy to do. Just follow the two steps shown below.



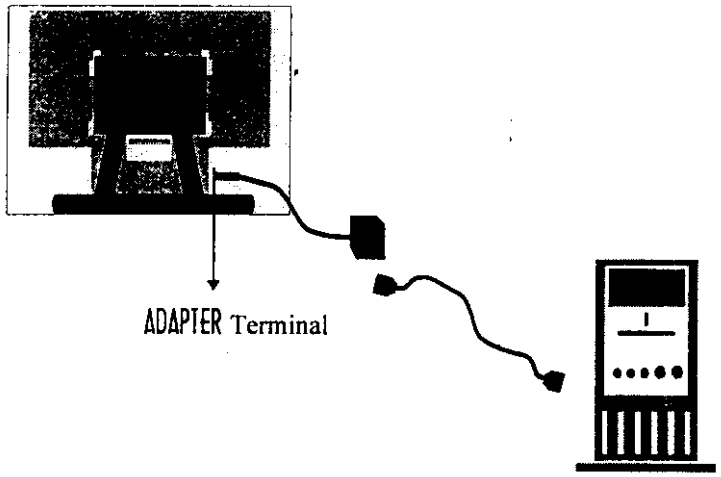
Removing the Stand.



Connecting Power

To supply the LCD monitor with power, use the provided AC-DC adapter and the power cord to connect to the power output socket of the computer. Fasten the connections securely.

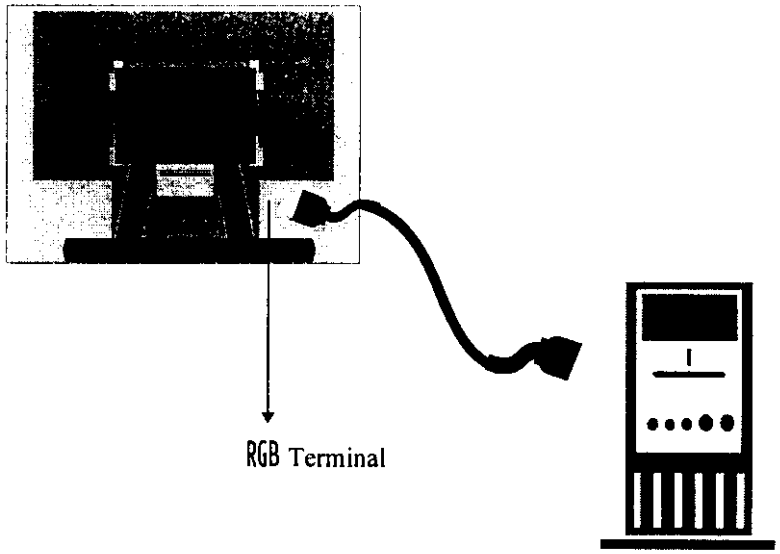
Ps: If your computer is not equipped with such a power output socket for the monitor, you may apply a power cord to connect to the provided AC-DC adapter and then plug it into the wall outlet. The plug should meet the electrical requirements in your country.



☞ A "Surge Protection" device plugged between the AC adapter and the wall outlet is recommended to prevent the effects of sudden current variations from reaching the LCD monitor. The sudden peaks of electricity may do harm to the LCD monitor .

Connecting the Computer

- Turn off the PC and the LCD monitor before connecting them.
- Use the Monitor-to-PC signal cable to connect the LCD monitor to the VGA port in your computer. The cable heads are the same on either side.
- Fasten the connections securely.



Chapter 2 User Controls and Indicators

The LCD monitor is very easy and simple to operate. There are five controls on the top. You can see their respective indicators on their side.

⏻

Press the Power Switch to turn on the LCD monitor and the power LED will light up green.

Menu Button

Pressing the button will activate the OSD menu. There are three pages in the OSD menu. Press to go to the next page.

Select Button

To scroll through items and locate them for adjustment in each page of the OSD menu, press ☑.

Decrease Button

To decrease the value of the parameter while adjusting in the OSD menu, press ▼.

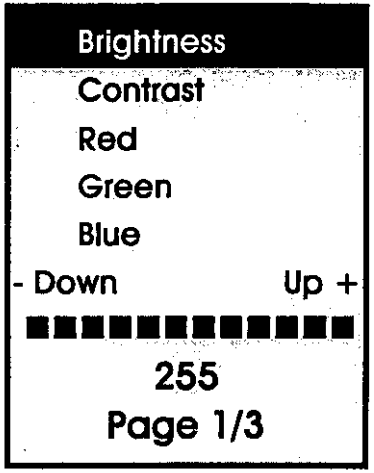
Increase Button

To increase the value of the parameter while adjusting in the OSD menu, press ▲.

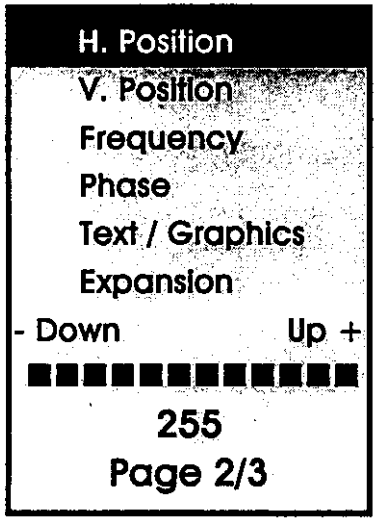
On Screen Display

☞ There are three pages in the OSD menu. Choose the items you would like to adjust.

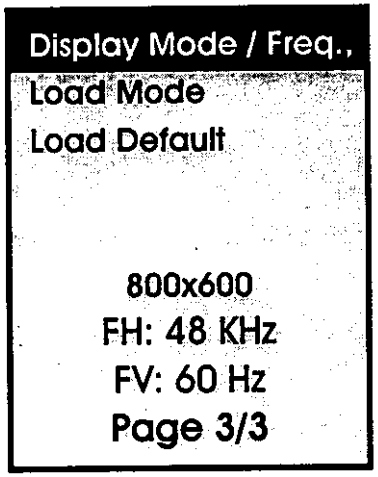
☞ Suppose you fail to adjust them satisfactorily, you may just go to the third page of the OSD menu to recall the factory default values.



- **Brightness:** According to the room brightness, you can adjust the brightness level of the display. Range: 0~255
- **Contrast:** You can lower or raise the overall contrast intensity of the display. Range: 0~255
- **Red:** Use this option to adjust the red gain. Range: 0~255
- **Green:** Use this option to adjust the green gain. Range: 0~255
- **Blue:** Use this option to adjust the blue gain. Range: 0~255



- **H Position**: It is for you to move the display horizontally to the left or the right. Range: 0~255
- **V Position**: It is for you to move the display vertically downwards or upwards. Range: 0~255
- **Frequency**: This option is for you to adjust the frequency of the display. Range: 0~255
- **Text/Graphics**: This is to choose a text-only (DOS) display or a graphics (WINDOWS) display.
- **Phase**: This is to set the range of the display center. Range: 0~32
- **Track**:: This is for you to adjust the focus and clarity of the image.
- **Expansion**: You can use this option to expand the display to the available largest size, or just set the display to the normal size.



- **Display Mode**: To indicate the values of current display resolution, vertical frequency and horizontal frequency, activate the Display Mode.
- **Load Mode**: When you change a new BIOS version, activate the Load Mode.
- **Load Default**: You can choose to set the LCD monitor's parameters to the factory set default values.

ppendix A Specifications

anel	
Type	Color TFT
Size	Diagonal 12.1"
Display Area	246 x 184.5 mm
Brightness	120 cd/m^2 (270cd/m^2), depends on models
Contrast Ratio	120 : 1
Pixel Pitch	0.3075x0.3075mm
Max. Pixel Rate	60 MHz
Viewing Angle (L/R/T/B)	45/45/10/30
Resolution	800 x 600
Display Modes	Full Screen in 640x480, 800x600 modes
Horizontal Frequency	15 ~ 60 KHz
Vertical Frequency	55 ~ 85 Hz
Color	262K
Input Signal	Analog RGB (0.7 Vp-p, 75ohms)
Input Terminal	D-sub mini 15 pin
Response Time	Tr: 20 ms Tf: 30ms
Plug & Play	DDC1, DDC2B
Compatibility	VGA, SVGA, IBM PC, MacII
Power Management	VESA DPMS
wer Consumption	
On- Working	22 Watts (Max.)
On-Standby	4 Watts
Input Voltage	AC 90~264V, 50~60Hz
Output	DC 12V / 3A
eration Environment	
Temperature	0 ~ 40°C
Humidity	Less than 85%
Dimensions	312 x 236 x 73 mm (w/ Stand)
Weight	1.7 Kg (w/ Stand)
Safety & EMI	UL, CSA, FCC-B, TUV/GS, CE

Appendix B Standard Timing

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Frequency (MHz)
640x350	31.469	70.087	25.175
640x350	37.861	84.136	31.5
640x400	31.469	70.087	25.175
640x400	37.861	84.136	31.5
640x480	31.469	59.941	25.175
640x480	37.861	72.809	31.5
640x480	37.5	75	31.5
720x350	31.469	60	28.322
720x350	37.736	72.81	36
720x400	31.469	60	28.322
720x400	37.736	72.81	36
800x600	35.156	56.25	36
800x600	37.879	60.3	40
800x600	48.077	72.188	50
800x600	46.875	75	49.5

Appendix C
Power Management System

The LCD monitor complies with the power management regulations of VESA DPMS(version 1.0p). It is provided with two phases of power saving modes by detecting the horizontal or vertical sync signal.

When the system is in the power saving mode or an incorrect timing is detected, the monitor screen will be blank and the power LED will change to an orange light.

Status	Power Consumption	Time to Resume	LED Color
On - working	22 watts		Green
On- standby	less than 4 watts	1 sec	Orange

Appendix D Troubleshooting

☞ To solve the following problems, you may need to refer to **Appendix B Standard Timing** for compatible display specifications.

- Problem: **Unclear or Unsteady Display**

  Actions:
  1. Change to the SHUT DOWN screen of the Windows.
  2. Activate the OSD menu.
  3. Adjust the setting of Frequency to stabilize the display.
  4. Adjust the setting of Track to clarify the image.
  5. You might need to repeat steps 3 and 4 to find balanced values for a best quality.

- Problem: **No Display is shown on the LCD monitor.**

  Actions:
  1. Make sure the LCD monitor is powered on by checking if the Power LED is lit. Check if all the connections are secure and the system is running correctly.
  2. If the Power LED is on with a green light, but there is still nothing displayed; connect your PC with another external monitor. If your PC works properly with that monitor, then it is possible that the VGA card of the system may be out of the LCD synchronous range. You may need a qualified technician to help you.

☞ Note the LCD monitor supports up to 800x600 dpi .