

Table of Content

CHAPTER 1

Introduction_____	1
Specification_____	3

CHAPTER 2

Installing The Monitor_____	7
Control Function _____	9

CHAPTER 3

Adjusting The Monitor_____	12
OSD Screen_____	12
Adjustment Icon_____	13

APPENDIX

Signal Connector Pinout _____	17
Q & A_____	18

CHAPTER 1

INTRODUCTION

BEFORE INSTALLING YOUR MONITOR

READ THIS MANUAL COVER TO COVER.

PAY ATTENTION to all WARNING and CAUTIONS

DO NOT use computer components not recommend by the manufacture.

Do not attempt to service the monitor your self. If a problem occurs, contact the manufacture's authorized service center

ABOUT YOUR MONITOR

This monitor is a microprocessor-controlled, color monitor which uses a TFT LCD panel. The monitor conforms to EPA Energy Star and VESA DPMS (Display Power Management Signaling) power management standards. Our monitors also provide one option to accept the video input (like NTSC or PAL signal), you can switch these input signal through OSD and the video OSD setting please refer to the Chapter 4.

RGB MODE

This monitor is equipped with a microprocessor that identifies your computer 's video mode and allows user to adjust the setting.

FACTORY-PRESET MODES

Table 1 shows standard video mode setting that have been pre-adjusted at the factory for accurate video display. These setting are stored in the monitor's memory

Table 1. Factory-Preset Modes

Mode	Resolution	H-Freq.(KHz)	V-Freq(Hz)
NEC	640x400	24.83	56.4
VGA	640x350	31.47	70
	720x400	31.47	70
	640x480	31.47	60
	640x480	37.86	72
	640x480	37.5	75
SVGA	800x600	35.16	56.3
	800x600	37.88	60.3
	800x600	48.08	72.2
	800x600	46.87	75
XGA	1024x768	48.36	60
	1024x768	56.47	70
	1024x768	60	75
Macintosh	640x480	35	66.7
	832x624	49.7	74.55
	1024x768	48.78	60
	1024x768	60.241	74.927

SPECIFICATIONS

Overall Dimension(HxWxD):	335 x 350 x 162 mm
Shipping Weight(G/W):	6.5 Kg
Effective Display area(H/V):	285.7 x 214.3 mm
Display colors:	16M (dithering)
Scan Frequencies:	
Horizontal	31.47K to 60 or 70KHz (Depends on panel)
Vertical	60Hz to 75Hz
Number of Pixels:	1024x768 pixels
Pixel pitch:	0.297x0.297 mm
Picture Tube:	14.1" TFT LCD panel
Power:	
Input	110~240VAC (auto-sensing) Frequency: 48-62Hz
Consumption	35Watts maximum (on) 1 Watt (Power saving off mode)
Video Connector:	15pin Mini D-sub (Standard)
Audio connector	1 x stereo input 1 x Microphone output
Speaker	1.5Watts x 2
RGB Signals:	
Video	Analog RGB 0.7Vp-p/75Ω
Sync	Separate

Display Data Channel:

Compatibility VESA DDC 1/2B

Operations:

User Controls On/Off Power Button
Contrast, Brightness,
Select and adjust button

On Screen Display Contrast, Brightness
Adjustment H-position, V-position

Color temperature
Auto Adjustment
Volume, Mute (optional)

Control Type: Digital

Compatibility: IBM and compatible, Apple
Macintosh, NEC

Environmental Limits:

Operating Temp 32° to 113°F (0° to 45°C)
Storage Temp. -4° to 140°F (-20° to 60°C)
Operating Humidity 10 to 85% without Condensation
Storage Humidity 10 to 95% without Condensation

Agency Approval

EMI FCC-B, CE and BSMI
Emissions MPR-II
Energy Saving EPA energy star, VESA DPMS
Safety UL

PRECAUTIONS

HANDLING

- The monitor must be treated with caution and not be exposed to impact and shock. The monitor is made of fragile glass panel.
- Do not expose to sharp shock.
- Never touch the display area or rub on it with a hard, stiff object or tools because the panel is easily scratched, even your monitor is protected with one glass filter.
- Every effort has been made to protect the panel, however the monitor is an extremely fragile product.

CLEANING

- The display area is highly prone to scratching. Do not use ketone type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It might permanently damage the panel.
- The desirable cleaners are water, IPA (Iso Propyl Alcohol) or Hexane.
- Don' t let water or oil penetrate the monitor. If the droplets are kept for a long time, Staining and discoloration may occur.
- Keep food particles and fingerprints away from the display area.

STORAGE

- Do not store the monitor in temperature higher than 35 degree Celsius or humidity higher than 70% and no condensation.
- Store in dark places away from sunlight and ultra violet (UV) radiation.
- Air bubble may develop within the glass panel, if this is not observed.

CHAPTER 2

PRODUCT PACKAGE

Open the shipping carton and check the contents. If any items are missing or damaged, contact your dealer immediately.

The package should include the following items

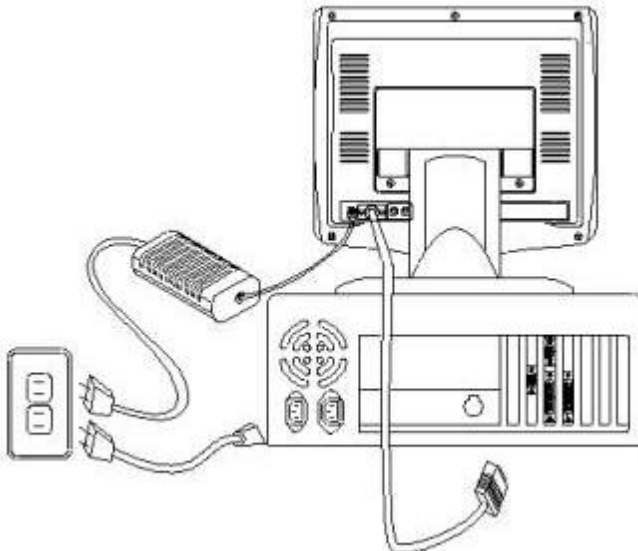
- Analog Color TFT LCD Monitor
- Accessory Box:
 1. VGA cable x 1
 2. AC to DC adapter x 1
 3. Power Cord x 1
 4. User's manual x 1

INSTALLING THE MONITOR

The monitor is equipped with an auto sensing power supply for voltage ranges from 110~240VAC, 60/50Hz. Confirm the line voltage designation on the rear panel of the monitor.

FOLLOW THESE STEPS TO INSTALL THE MONITOR

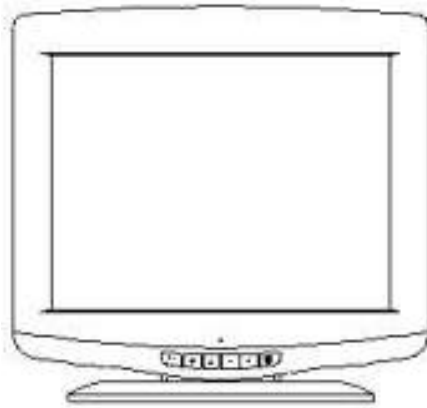
1. Before you connect the cables, make sure that the monitor and the system unit power switches are OFF
2. Plug one end of the 15pin signal cable to the monitor and the other end to the video signal connector at the rear of the system. Tighten the two screws on the cable connector on both ends, otherwise the screen will be abnormal and LED light is yellow color, not the normal green color.
3. Connect the power to the monitor through the AC/DC adapter
4. Connect the power cord on the AC outlet, see the below




CONTROL FUNCTIONS

The Monitor control functions are located on the lower center of the front view side. They are shown in the figure below and described in the following paragraphs.

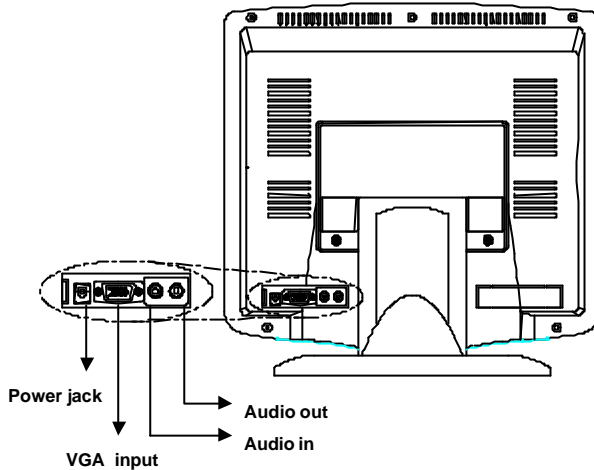
- **The outlook of LCD front side**



The control key description

1. **MENU** : Activate the on screen display function
2. \rightarrow : Move to the next item / Brightness control
3. \leftarrow : Move to the previous item/Brightness control
4. **+** : Increment / Volume control
5. **-** : Decrement / Volume control
6.  : Power Switch

- **The outlook of LCD back side**



- We suggest you install the LCD Monitor under the Windows safe mode.
- Please enter ***”Control Panel” ”Display”***
Select ***”Advanced” ”Adapter”*** change ***”Refresh Rate”*** to ***”Default”***, and select ***”OK” ”Close”***.
- Restart computer.

DESCRIPTION

1.  : **Power switch**

Use the power switch to turn ON or OFF power. We recommend turning your system power on first, then the LCD monitor.

2. **- & + : decrement & increment/Contrast Control keys**

The two keys have two functions, controlled by the MENU key. When activating OSD screen, the two keys are defined to decrement or increment the values of each selected items. When de-activating OSD screen, these two keys are used to change the contrast value.

3. **Ñ & D : Select key / Brightness Control keys**

The two keys have two functions, controlled by the MENU key. When activating OSD screen, the two keys are used to select the wanted adjustment items. When de-activating OSD screen, these two keys are used to change the Brightness value.

4. **Menu**

Press the Menu key to activate the on screen display screen. It is a toggle key. Press twice to turn off the on screen display screen. After 30 sec idle time, the OSD screen will automatically turn off.

CHAPTER 3

ADJUSTING THE MONITOR







The LCD monitor is designed to work with a range of compatible video adapters on the market. Due to the possible deviations between these video adapters, you may make some adjustment to fit the monitor for adapter used.

ADJUSTMENT PROCEDURE

1. First, you must activate the OSD screen through pressing the MENU key, the screen will show in the center of screen as below:

NOTE: In the last paragraph, we will assume that you had already done this procedure and only explain how to change the setting.

OSD SCREEN

1024X768 70 . 3HZ / 56 . 6KHZ	
AUTO ADJUSTMENT	
	menu
	menu
DOS TXT / GFX	off
	user
	50
	on
	100
VERSION : XGA-9A611-4201	


2. Use the ∇ & Δ key to select the required adjustment item up or down.
3. Use the $-$ & $+$ key to do the desired function or go into the second menu item to do the further change.


AUTO-ADJUSTMENT

WE STRONGLY RECOMMEND THAT YOU USE THIS ITEM TO GET THE OPTIMIZED VISUAL QUALITY.

Use the ∇ & Δ key to select auto-adjustment , then press $-$ or $+$ to get the optimized quality.

RGB ADJUSTMENT

Use the ∇ & Δ key to select the  icon, then press $-$ or $+$, the screen will display as below

1024X768 70 . 3HZ / 56 . 6KHZ	
Auto-Balance	
CONTRAST	
RED	20
GREEN	18
BLUE	19
BALANCE	
RED	49
GREEN	50
BLUE	26
	
VERSION: XGA-9A611-4201	

Adjust the contrast value


- Use the ∇ & Δ key to select the CONTRAST item, then press $-$ & $+$ to get the best contrast optimization. You can adjust R,G,B simultaneous or separate R,G,B value. (you can use this item to change the RGB purity.)





Color Balance

- Use the ∇ & Δ key to select the balance item, then press $-$ & $+$ to get the best color balance effect or separate set the RGB color value. (You can use this items to change the RGB intensity)

The easy way to adjust the contrast and color balance setting is to use the auto-balance item.



GEOMETRY ADJUSTMENT

Use the ∇ & Δ key to select the  icon, then press $-$ or $+$, then the screen will display as below


1024X768 70 . 3HZ / 56 . 6KHZ	
	223
	24
	1056
PHASE	25
	
VERSION : XGA-9A611-4201	

If you want to go back to the previous OSD menu screen, pressing MENU key then you will see the OSD screen as previous page 13.

VERTICAL & HORIZONTAL POSITION ADJUSTMENT

1. Use the ∇ & Δ key to move to the  ICON, then press - & + to move the whole screen left or right to the center position.
2. Use the ∇ & Δ key to move to the  ICON, then press - & + to move the whole screen down or up to the center position.

ADJUST THE VIEWING SCREEN SIZE

- Use the ∇ & Δ key to move to the  icon , then press - & + to get the larger viewing size.

PHASE ADJUSTMENT


Adjust phase tracking of display signal to reduce the display flicker. The invalid phase tracking will cause unstable and flicking display.

- Use the ∇ & Δ key to move to the Phase item ,then press - & + to get better image quality.


DOS TXT/GFX

Now, you can select the display mode as 640x400 (called graphic mode), or 720x400 (called Text mode).


Color Temperature

We provide three modes, one is user mode, one is 6500°K and the other is 9300°K. Use the ▽ & △ key to move to the color temperature, then press - & + to select the color temperature setting. When user set at 6500°K or 9300°K, then the user can't change the  value.


BRIGHTNESS Adjustment

Use the ▽ & △ key to select the  item, press - & + to change the brightness value.

Audio volume control (Optional)

Use the ▽ & △ key to select the  item, press - & + to change the volume value.

Mute On/Off (Optional)

Use the ▽ & △ key to select the  item, press - & + to turn on or off the audio mute function.

UNDERSTAND THE DISPLAY RESOLUTION SETTING

To understand your display mode setting.

- In the OSD screen, you will see the Horizontal frequency (HF), Vertical frequency (VF), display resolution (MODE) and the monitor Firmware version (ROM LEVEL). It is automatically detected by the monitor user can not change this setting.

APPENDIX

SIGNAL CONNECTOR PIN-OUT

POWER CONNECTOR

Pin 1	Ground
Pin 2	+12V output

RGB SIGNAL CONNECTOR

Pin 1	Analog Red Input
Pin 2	Analog Green Input
Pin 3	Analog Blue Input
Pin 4	Ground
Pin 5	Digital Ground
Pin 6	Analog Red Ground
Pin 7	Analog Green Ground
Pin 8	Analog Blue Ground
Pin 9	NC
Pin 10	Sync Ground
Pin 11	Ground
Pin 12	SDA (DDC Data)
Pin 13	H. Sync
Pin 14	V. Sync
Pin 15	SCL (DDC CLK)

Q & A

Q1. When your adapter refresh rate setting is 85Hz or above, the LCD can't display anything, what action should be taken to make LCD monitor display correctly?

1. Restart computer and enter **"Safe Mode"**.
2. Enter **"My Computer"** → **"Control Panel"** → **"Display"**.
3. Select **"Setting"** → **"Advanced"** → **"Adapter"**.
4. Change **"Refresh Rate"** to **"Default"**, and select **"OK"** → **"Close"**.
5. Restart computer.

Q2. When pressing the auto-adjustment function, the screen still can't get the best visual image. What will you to recover this problem?

Please enter the OSD menu to manual adjust the phase and clock setting, the detail adjustment procedure, please see the manual Chapter 3.