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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 manufacturer.

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 monitor 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

- **15" LCD Monitor**

Overall Dimension(HxWxD):	435.3 x 372 x 235 mm
Shipping Weight(G/W):	8.5 Kg
Effective Display area(H/V):	304.1 x 228.1 mm
Display colors:	16.7M (dithering) colors
Scan Frequencies:	
Horizontal	31.47K to 60KHz
Vertical	60Hz to 75Hz
Number of Pixels:	1024x768 pixels
Pixel pitch:	0.297x0.297 mm
Picture Tube:	15" TFT LCD panel
Power:	
Input	110-240VAC(auto-sensing) Frequency: 48-62Hz
Consumption	30 Watts maximum (on) 1 Watt (Power saving off mode)
Video Connector:	Special signal cable
Audio connector (optional)	1 x stereo input 1 x earphone output
Speaker (optional)	2W x 2
Optional	Touch Screen
MSR	ISO Track 1&2
RGB Signals:	
Video	Analog RGB 0.7Vp-p/75Ω
Sync	Separate
Display Data Channel:	
Compatibility	VESA DDC 1/2B

15.1" LCD monitor -----

Operations:

User Controls	On/Off Power Button Select, Auto-adjustment VR Volume control (optional)
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On Screen Display Adjustment	Contrast, Brightness H-position, V-position Color temperature Auto Adjustment
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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 and CE
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.

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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

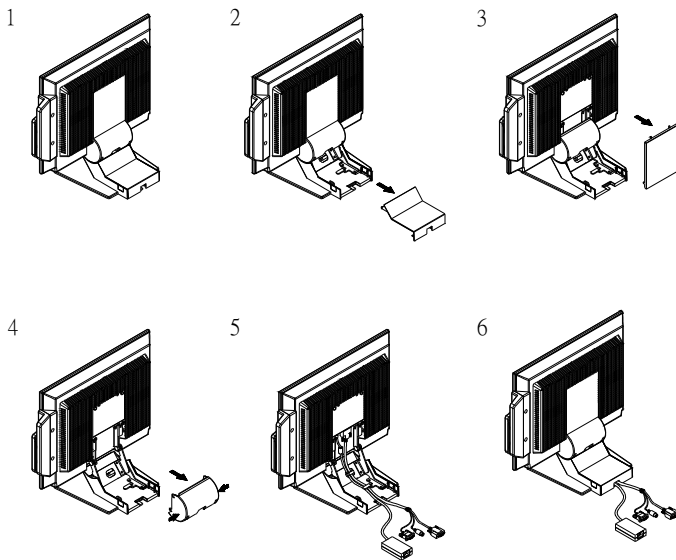
- Analog Color TFT LCD Monitor
- Accessory Box:
 1. Special signal cable x 1
 2. AC to DC adapter x 1
 3. Audio cable (optional)
 4. Power Cord x 1
 5. User's manual x 1

INSTALLING THE MONITOR

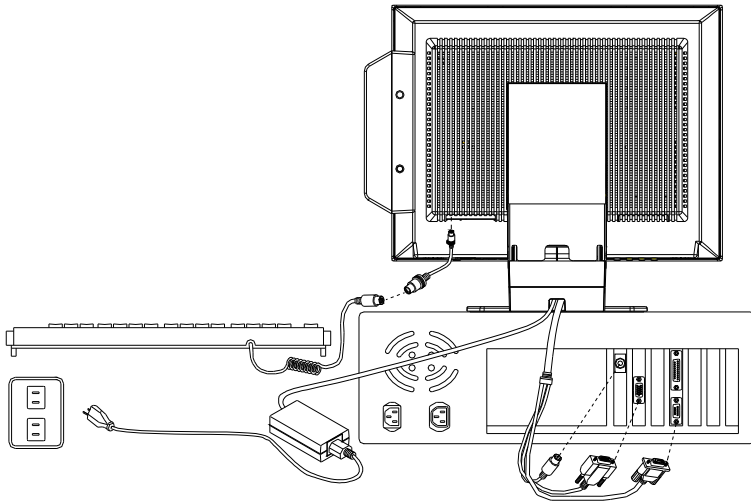
The monitor is equipped with an auto sensing power supply for voltage ranges from 110~240VAC, 60/50Hz. Confirm the line voltage designation on the rear panel of the monitor.

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. Follow the drawing 1 to pull off the back cover in order to plug the special cable into.
3. Second, look the drawing 2 to connect each plug carefully, and then pull back the back cover.
4. Connect the power cord on the AC outlet
5. Plug the D-sub 9 pin connector on the RS-232 connector in the PC.



6. Plug the MINI DIN connector on the PS/2 keyboard port in the PC.
7. Connector the PS/2 keyboard connector on the left back side of the front cover.



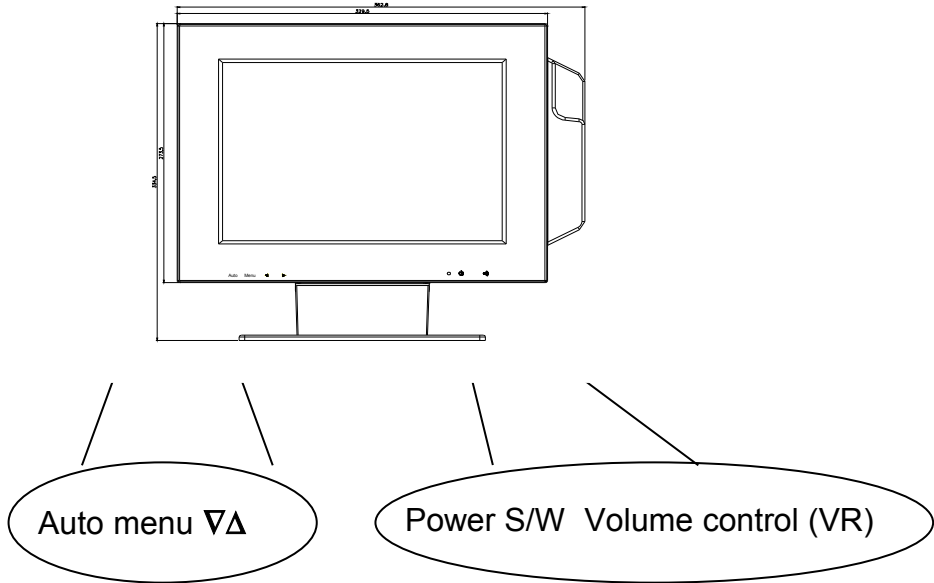
Connect to the PS/2
keyboard connector on
the PC

Connect to the
RS232 9 pin
connector

Connect to the
VGA port

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 control key description

1. **Power Switch** : Power Switch
2. **▽ / Δ** : Cursor Up/Down or Brightness control
3. **MENU** : Activate the on screen display function
4. **Auto** : Auto adjustment

Descriptions

1. **Power S/W: 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. **▽ & △ : 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.

3. **Menu / Enter Key**

Press the Menu key to activate the on screen display screen. When OSD is enabled, then the key is reassigned as Enter Key. After 30 sec idle time, the OSD screen will automatically turn off.

4. **Auto adjustment**

Pressing this key to get the better visual performance.

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 75HZ / 60KHZ		
AUTO ADJUSTMENT		
.....		
❖	menu	
⊗	menu	
.....		
DOS TXT / GFX		off
☐	user	
EXIT		
VERSION:	XGA-A9A82-4111	

2. Use the ▽ & △ key to move to the desired item, then press Menu to select the change item.
3. Use the ▽ & △ key to change the value.

AUTO-ADJUSTMENT

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

Use the ▽ & △ key to select auto-adjustment, then press Menu to get the optimized quality.

❖ RGB ADJUSTMENT

Use the ▽ & △ key to select the ❖ icon, then press Menu key, the screen will display as below

1024x768 75Hz/60KHZ	
Auto-Balance	
CONTRAST	
RED	20
GREEN	18
BLUE	19
BALANCE	
RED	49
GREEN	50
BLUE	26
	
VERSION XGA-A9A82-4111	

Adjust the contrast value

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- Use the ▽ & △ key to select the CONTRAST item, then press Menu key. Now use ▽ & △ to change the value in order 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 ▽ & △ key to select the balance item, then press Menu key. Now use ▽ & △ to change the value in order 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 ▽ & △ key to select the ⊗ icon, then press Menu key, then the screen will display as below

1024x768 75Hz/60KHZ	
□	223
◆	24
●	1056
PHASE	25
EXIT	
VERSION : XGA-A9A82-4111	

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 12.

VERTICAL & HORIZONTAL POSITION ADJUSTMENT

1. Use the ▽ & △ key to move to the □ ICON, then press Menu key to select. Now use ▽ & △ to move the whole screen left or right to the center position.
2. Use the ▽ & △ key to move to the ◆ ICON, then press Menu key. Now use ▽ & △ to move the whole screen down or up to the center position.

ADJUST THE VIEWING SCREEN SIZE

- Use the ▽ & △ key to move to the ● icon , then press Menu key. Now use ▽ & △ 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 ▽ & △ key to move to the Phase item, then press Menu Key. Now use ▽ & △ 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 and the other is 9300. Use the ▽ & △ key to move the color temperature, and then press Menu Key. Now use ▽ & △ to change the color temperature setting. When user set at 6500 or 9300, the user can't change the ♦ value.

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◆**BRIGHTNESS Adjustment**

Use the ▽ & △ key to select the ◆ item, press Menu Key.

Now use ▽ & △ to change the brightness value.

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, the user can not change this setting.

☐ **Audio volume control (Optional)**

Please use the knob to change the speaker volume . The Knob is located on the right lower side of the front cover.

MSR function

Our MSR can accept the ISO track 1 or 2 format from up to down or reverse, it will automatically display in the screen, like you use the keyboard to key-in the number.

Touch Panel

Please see the attached CD ROM to install the driver and application, If you had any question, please see the on-line help.