LCD Monitor

User's Guide

FCC ID : OMVVW 9901

FCC DECLARATION:

Safety and Care Instructions

No matter what your level of experience with computers, please make sure you read the safety and car instructions. This information can protect you and your monitor from possible harm.

Radio and television interference

Warning:Use the specified shielded power cord and shielded signal cables with this computer, so as not to interfere with radio and television reception. If you use other cables, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to PART 15 of 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 install and used in accordance with the instruction, 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 mode of following measures:

- Reorient or relocate 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

You may find helpful the following booklet, prepared by the Federal Communications Commission: Interference Handbook (stock number 004-000-00345-4). This booklet is available from the U.S. Government Printing Office, Washington, DC20402.

This CLASS B digital apparatus meets all requirements of Canadian interference causing equipment regulations.

As an Energy Star partner, Action Electronics company, LTD, has determined that this product
Meets Energy Star guidelines for energy efficiency.

Warning

- Electrical equipment may be hazardous is misused. Use this monitor only as directed in this book.
- Do not attempt to open the monitor's case. Do not attempt to service this monitor by yourself. There are no User-serviceable parts inside. If necessary, take the monitor to your dealer for servicing.
- Do not use the monitor near water.

Caution

- Do not drop or jar the monitor.
- Do not place heavy objects on the monitor.
- To keep the monitor from over-heating.
- Clean the LCD screen with a soft, lint-free cloth and a mild glass cleaner. Do not spray the glass cleaner (or any other liquid) directly on the screen.

If something goes wrong

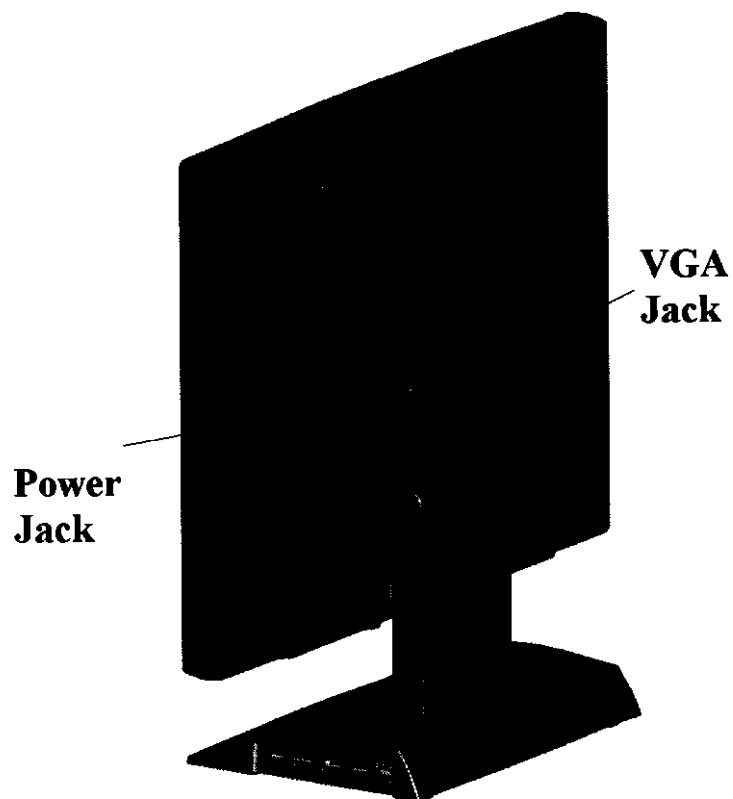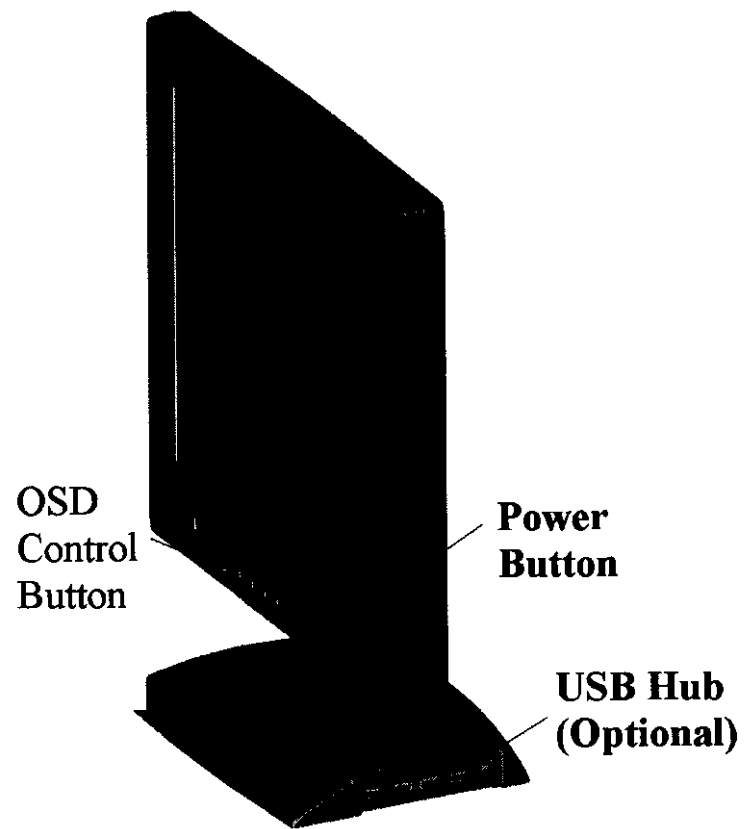Unplug the monitor from the wall outlet and take it for servicing to your dealer if
- the power cord or plug is damaged or frayed
- the monitor has been dropped or the case has been damaged
- the monitor doesn't work

INTRODUCTION:

Thank you to purchase the 15 inches flat LCD monitor, It is designed to fully meet any kind of display application, and can display the maximum area as well as high resolution and sharp colors.

This LCD monitor can support up to XGA mode in 1024X768 resolution, non-Interlaced operation. Because its unique feature called **"MAGIC TOUCH^{TM}"** function, it allow user to auto-adjust screen to get best display quality. It will be a CRT monitor replacement.

Note: "MAGIC TOUCH^{TM}" Is Trademark of Source Technology Inc.

VW9901

OSD
Control
Button

Power
Button

USB Hub
(Optional)

VGA
Jack

Power
Jack

INSTALLATION:

To attach the LCD monitor to your system, please follow the below instruction:

1. Turn off the power to your computer.
2. For the PC side: connect 15-pin mini D_SUB VGA connector to your PC. Tighten the screw.
3. For the LCD side: connect another end of 15-pin D_SUB VGA connector to the LCD monitor, and tighten the screw.
4. Connect one end of power cord to adapter and the other end to the LCD monitor DC_IN inlet.
5. Turn on the computer and LCD monitor.
6. To complete the setup of your LCD monitor, use OSD function to adjust display image. Please refer to OSD CONTROL function for full detailed description.
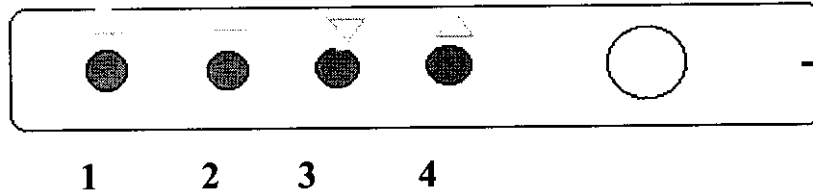
Note: if you have any problems, please refer to troubleshooting section of this user manual.

Supporting Mode:

	Resolution	*Horizontal Freq.*	*Vertical Freq.*	*Pixel Clocks*
	640X350	31.25 K	70 HZ	28 MHz
	640X480	31.25 K	60 HZ	25 MHz
	640X480	35 K	67 HZ	30.24 MHz
	640X480	37.9 K	72HZ	37.9 MHz
	640X480	37.5 K	75 HZ	31.5 MHz
	720X400	31.25K	70HZ	28 MHz
	800X600	35.2 K	56 Hz	35.2 MHz
Timing	800X600	37.2 K	60 HZ	37.9 MHz
	800X600	48.1 K	72 HZ	48.1 MHz
	800X600	46.7 K	75 HZ	46.7 MHz
	1024X768	48.4 K	60 HZ	65 MHz
	1024X768	56.5 K	70 HZ	75 MHz
	1024X768	60.0 K	75 HZ	78.8 MHz
	832X624 (MAC)	49.8 K	74.6 HZ	57.29 MHz

OSD OPERATION:

The OSD controls on the front of the monitor function as follows:


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  1      2     3      4
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1. **Increment Button:** OSD setting value is increased while this button is pressed

2. **Decrement Button:** OSD setting value is decreased while this button is pressed

3. **Up Button :** OSD bar move up while this button is pressed

4. **Down Button :** OSD bar move down while this button is pressed

The description of OSD items:

Horizontal Position.	Adjust the horizontal image position within the display area
Vertical Position	Adjust the vertical image position within the display area
Brightness	Adjust the overall image and background screen lighter or darker
Contrast	Adjust the image in relation to background color ratio
Phase	Adjust the focus of the display image
Magic Touch ™	Automatically adjust the setting value of each item including Image position, brightness, contrast, phase, gamma value, and so on.

Note: the function of "Magic Touch ™" may fail to auto-adjust in following conditions

1. The background is black and no border such as DOS text mode.

2. Moving image or picture such as "flying windows" in screen saver

We strongly recommend that you can just press the "Magic Touch ™" function to get the best image quality when you unpack the monitor or when you install different VGA card or PC.

The OSD display will disappear and save the current setting value automatically if the OSD buttons are idle more than 5 seconds.

THE TROUBLESHOOTING GUIDES:

1. NO PICTURE
- The signal cable should be completely connected to the display card or computer
- Power switch should be in the ON position
- Check whether the display resolution or vertical refresh rate is beyond supported range
- Check the signals cable connector is loosen or disconnected.
- Check the signal cable connector is bending or broken signal pin

2. IMAGE IS UNSTABLE,UNFOCUSED
- Signal cable should be completely connected to computer.
- USE "magic touch" in OSD to adjust automatically.
- The image is still unstable after "magic touch" processing, please adjust "PHASE" manually to get image focused.
- Check whether the resolution or refresh rate in windows display setting is beyond supported range.(please refer to the specification of supported mode)
- Check the compatibility of display card and signal output spec

3. POWER LED IS ALWAYS IN AMBER
- Check whether the computer is in screen saving mode
- Check whether the signal cable is loosen or disconnected
- Check whether the resolution or refresh rate in windows display setting is beyond supported range.(please refer to the specification of supported mode)

4. DISPLAY IMAGE IS NOT SIZED PROPERLY

● Check whether the resolution or refresh rate in windows display setting is beyond supported range.(please refer to the specification of supported mode)

5. POWER LED TURN GREEN, BUT STILL NO PICTURE

● Please contact your retailer to handle it

Product Specification

LCD Module	**Display Area**	15.1 inches (380mm) diagonal
	Display Type	thin film transistor (TFT), active matrix
	Pixel Pitch	0.3mm X0.3mm
	Pixel Format	1024 horizontal by 768 vertical Pixel
	Color Depth	6 bits
	Display Mode	Transmission mode, normally white
	Surface Treatments	Anti-glare treatment of the front polarity
	Contrast Ratio	Typical 200:1
	Average Brightness	200 cd/ m^2
	View Angle (CR>10)	+/- 75° in horizontal, +/-60° in verical
	MTBF	40,000 hours
Input Signal	**Video**	Analog 0.7 vpp/ 75 ohms
	Sync.	Separated sync. TTL level
		Horizontal sync.: Postive/ negative
		Vertical sync.: Postive/ negative
Sync. Range	**Horizontal**	30 KHz to 60 KHz (Automatically)
	Vertical	56 Hz to 75 Hz (Automatically)
Active Display Area	Width: 307.2 mm	Height: 230.4 mm
Power Supply	AC input: 100 – 240V ~1.2A max. @50 / 60 Hz	
	DC input: 12V / 3.5A	
Dimensions	398.5 mm (H) x 382 mm (W) x 163 mm (D)	
Weight	3.5 Kgs.	
Environmental Condition	Operation temperature: 0°C to 35°C	
	Operation humidity: 30% to 80%	
	Storage temperature: -10°C to 60°C	
	Storage humidity: 10% to 85%	
Misc.	DDCI / II	