



User's Guide

LCD MONITOR

Model : U90P

FCC STATEMENT

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 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 on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the user's authority to operate such equipment.

1. precautions

2. Items

3. Setting up the LCD monitor

4. Adjusting The Monitor

5. Appendix

6. PowerSaver

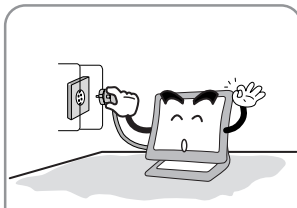
7. Troubleshooting

Plug & Play

The adoption of the new VESA Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system without the usual hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the PC system can automatically configure itself to use the flat panel display.

1 Precautions

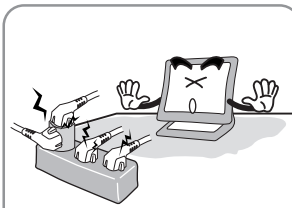
Warning : The following information will help you avoid the risk of electric shock, serious injury, and death.



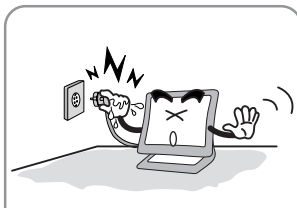
Plug the power cord into a properly grounded outlet. There is the risk of electric shock.



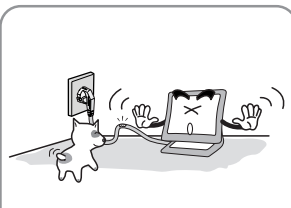
If you hear a noise or smell smoke from the computer or adaptor, unplug the power cord immediately, and call the service center. There is the risk of electric shock or fire.



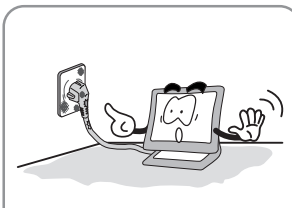
Do not overload an electrical outlet with too many devices. There is the risk of fire.



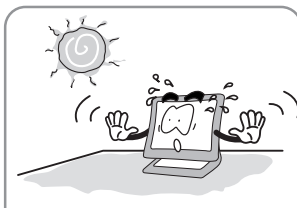
Do not unplug from the outlet by pulling the power cord or when your hands are wet. There is the risk of electric shock and fire.



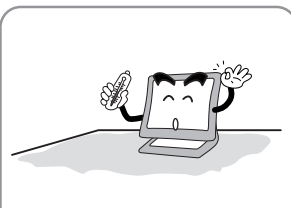
Do not bend the power cord excessively or place heavy objects on it. Keep children and pets away from the power cord as they may damage the power cord. There is the risk of electric shock and fire.



Do not use a damaged power cord or plug. Make sure the plug fits snugly into the outlet. There is the risk of electric shock or fire.

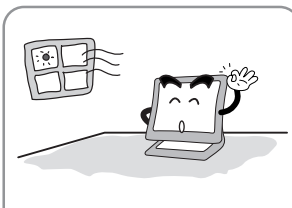


Do not expose the monitor to the direct sun light.



Keep the monitor away from high temperature, humidity, and dust.

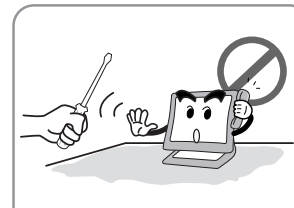
- Operating environment =0~25degrees Celsius
- Operating environment =30~80relative humidity.



Do not block the fan louvers. There is the risk of fire or damage to the monitor.

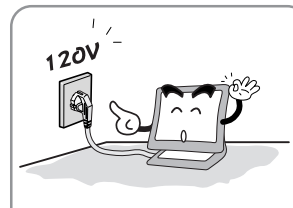


Do not allow any object or liquid to enter inside the monitor. There is the risk of electric shock, fire, or damage to the monitor.

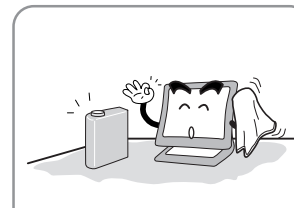


Do not attempt to disassemble, fix, or modify the monitor. There is the risk of electric shock or fire.

Caution : The following information will help you avoid the risk of minor or moderate injury, or damage to the monitor.



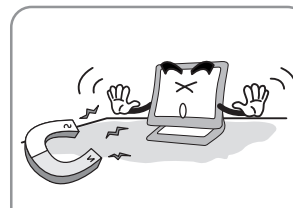
Use a proper voltage/current level indicated



Do not clean the LCD with abrasive chemicals. There is the risk of damage to the LCD.



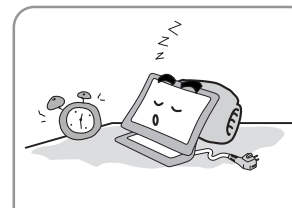
Do not scratch and damage the LCD with sharp objects.



Keep the monitor away from objects and electrical appliances that may generate electromagnetic fields.



Place the monitor on a flat, stable surface. The monitor may fall and there is the risk of damage or injury



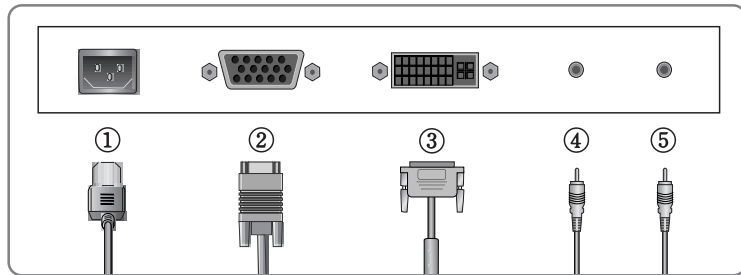
Unplug the power cord when the monitor is not in use for a prolonged period of time.

2 Items

- User Manual, LCD Monitor, Power cord, 15-pin D-Sub Signal Cable, Stand, Audio Cable, DVI-D Cable.

3 Setting up the LCD monitor

How to connect the power cord and the several cables to the LCD monitor.



No.	Name	Cable connections
1	Power	Power Cord
2	D-SUB	15-pin D-Sub Signal Cable
3	DVI	DVI-D Cable
4	SPK IN	Audio Cable*1
5	SPK OUT	External Speaker Cable*1

*1 : For Audio Model Only.

4 Adjusting The Monitor

- MENU** : 1. First click : The OSD main menu appears.
 2. Second click : The OSD menu disappears.
- AUTO** : When you push Auto button, this will optimize image quality automatically.
- MUTE** : Sound Mute On/Off button.
- POWER** : Power On/Off toggle button.
- SEL** : Select a command function.
- ▲ : 1. Move the on-screen highlighted command item to the next one.
 2. Decrease the current option value.
 - ▼ : 1. Move the on-screen highlighted command item to the Previous one.
 2. Increase the current option value.
- MODE** : You can change the display mode.(ANALOG↔DIGITAL)
- VOL** : Volume.
- MWE** : You can manually adjust the screen to your environment on the computer.

5 Appendix

Display Modes

Mode	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Pixel Clock Frequency(MHz)	Sync Polarity(H/V)
VGA	720 X 400	31.468	70.087	28.322	-/+
		31.468	59.940	25.175	-/-
	640 X 480	35.000	66.670	30.240	-/-
SVGA	800 X 600	37.500	75.000	31.500	-/-
		37.879	60.300	40.000	+/+
		48.077	72.188	50.000	+/+
XGA	1024 X 768	46.875	75.000	49.500	+/+
		48.363	60.004	65.000	-/-
		56.476	70.000	75.000	-/-
XGA+	1152 X 864	60.023	75.029	78.750	+/+
SXGA	1280 X 1024	67.500	75.000	108.000	+/+
		63.981	60.020	108.000	+,-/+,-
		79.976 *1	75.025 *1	135.000 *1	+/+ *1

*1 : For Analog Mode Only.

6 PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time.

State	Power consumption	Recovery Time	LED Color
ON	Under 40W	—	Green
OFF	Less than 2W	Within 2 sec	Amber

7

Troubleshooting

What you see	Suggested Actions
Screen is blank and power indicator is off	Ensure that the power cord is firmly connected and the LCD monitor is on.
“VIDEO MODE NOT SUPPORTED” message	<ul style="list-style-type: none"> • Check the maximum resolution and the frequency of the video adaptor. • Compare these values with the data in the Display Modes Timing Chart.
“NO SIGNAL” message	<ul style="list-style-type: none"> • Ensure that the signal cable is firmly connected to the PC or video sources. • Ensure that the PC or video sources are turned on.
Image is not stable and may appear to vibrate	<ul style="list-style-type: none"> • Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check : Control Panel, Display, Settings • Note : Your monitor supports multiscan display functions within the following frequency domain:
The image is too light or too dark	<ul style="list-style-type: none"> • Adjust the Brightness and Contrast. • Refer to the Brightness/Contrast
The image color is not good	<ul style="list-style-type: none"> • Adjust the Color • Refer to the Color
Image is not centered on the screen	<ul style="list-style-type: none"> • Executes Auto Adjustment.
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	<ul style="list-style-type: none"> • The monitor is using its power management system. • Move the computer’s mouse or press a key on the keyboard.

Appendix A. Specifications

MODE		Analog	Digital
Panel	Type	TFT active matrix	
	Size	19 inch	
		376.32 × 301.056(mm)	
	Pixel Pitch	0.294 × 0.294(mm)	
Display	8-bit (16,777,216 colors)		
Display Resolution	Basic	1280 × 1024@60Hz	
	Maximum	1280 × 1024@75Hz	1280 × 1024@60Hz
Frequency	Horizontal	31.5 ~ 80KHz	31 ~ 64KHz
	Vertical	56 ~ 75Hz	59 ~ 61Hz
Connectors		15-pin D-Sub Connector	DVI-D Connector
		Speaker Input / Headphone Output (Audio Cable)*1	
Tilting Degree (U/D)		-5° ~ 25° Degree	
Plug&Play		VESA DDC 1/2B	
Power	Input	Internal type : 100~240VAC, 50/60Hz, 0.7A	
	Consumption	Under 40W (Speaker Max 4W)*1	
	Standby mode	2W less	
Power Management		PowerSaver	
Environmental Consideration	Temperature	0~35°C (32° F~95° F)	
	Humidity	90% less	
Dimensions	Outside	426.3mm(W) × 452.55 mm(H) × 200 mm(D)	
Weight	Monitor	5.65kg	
	Carton	1.5kg	

*1 : For Audio Model Only.



Disposal of Used Electrical & Electronic Equipment

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipments waste. In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Pivot Stand / Sliding Stand

