

LCD MONITOR USER'S MANUAL

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GETTING STARTED

WARNING: Do not operate the LCD monitor with unspecified power supply. Usage of incorrect voltage will cause malfunction and may cause fire or electric shock.

Introduction

Bright and sharp images of text and graphics are what you will find with your LCD color monitor. The LCD monitor provides a maximum resolution of 1024 x 768 pixels with a flicker-free display at up to 75Hz refresh rates that offers bright, sharp and vibrant color display without the radiation emission and hazards of CRT monitors.

Features

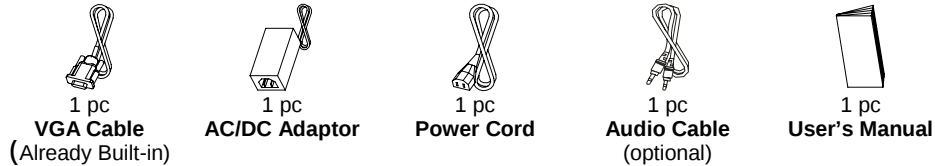
- Supports XGA resolution of 1024 x 768 pixels
- VESA DPMS-compliant power saving
- Digital Character Smoothing
- Automatic Set-Up
- Ergonomic Design: TCO Approved
- Windows 95/98/2000 Plug & Play Compliant
- Versatile, functional & User friendly OSD
- Plug & Play: Conform to the VESA standards and support DDC1/2B spec.

Unpacking and Checking of the Package Contents

Before unpacking your LCD Monitor, prepare a suitable workspace for your LCD Monitor and computer. You need a stable, level, and clean surface near a wall outlet.

1. Set the LCD Monitor box in an upright position and open from the top of the box before removing the right/left cushions.
Note: Please notice that the AC/DC adaptor is placed on the side of the cushion, make sure the adaptor will be held and removed out from the carton while removing the cushion.
2. Remove the back cover from your monitor (pull from the bottom of cover to open) to install your PC system.

Accessories

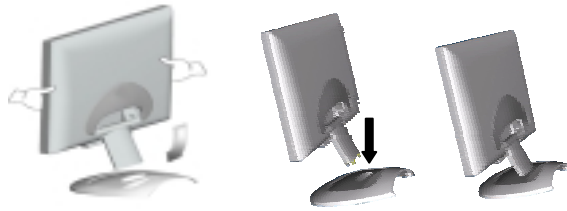


Installing the Monitor

- **DO NOT** install the monitor where sudden temperature changes may occur, or in humid, dusty, or smoky areas as it may cause fire, electric shock or damage.
- **DO NOT** place your LCD Monitor near a window as it may be severely damaged if exposed to rain, water, moisture, or sunlight.
- **MAINTAIN** good ventilation; covering of ventilation slots or holes may cause fire.
- **PLACE** the monitor at least 4" (or 10 cm) way from the walls.
- **SAFE** storage temperature of the LCD Monitor is in a range of -20 to +65°C.

Connecting the Monitor

1. Turn off your PC before connecting your LCD monitor to the PC.



2. Take the monitor out from the box and assemble it with the detachable base.

Note: Make sure to hook the brace into the right position of the base.

3. Take off the plastic cover on the rear bezel of the LCD monitor.

Note: Make sure the surface of the table is clean and covered with a soft cloth to prevent damaging or scratching the panel when assembling the LCD monitor.



4. Connect signal cable(s), Audio cable and DC adapter connector to your Monitor. Make sure the cable heads are securely connected.



5. Assemble the plastic cable cover back to the rear cover of the LCD monitor.

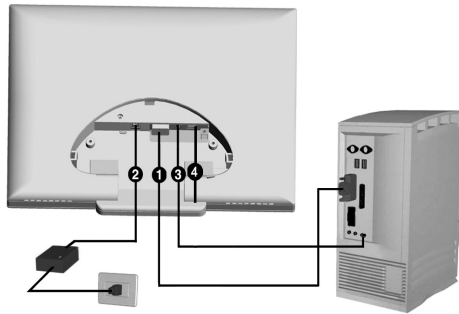
6. Connect the other end of VGA cable to the VGA port of the PC system. Make sure the cable head is securely connected.

7. Connect the other end of Audio cable to sound card's "Audio out" jack.

8. Plug the female end of the power cord into the AC adaptor.

9. Connect the male end of the power cord into a wall socket.

10. Turn on your computer, and then turn on your LCD Monitor.

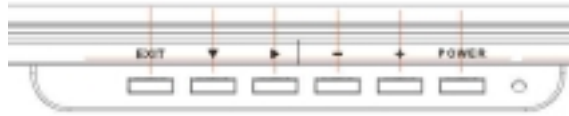


NOTE

For added protection, it is recommended to use a Surge Protection device plugged between the AC Adapter and the electrical wall outlet to prevent the effects of sudden current variations from reaching the LCD Monitor. Sudden peaks of electricity may cause damage to the Monitor.

OPERATING THE MONITOR

The LCD monitor has been preset at the factory with the Timing shown in Appendix to create optimal picture. Users are also able to adjust the picture to the desired brightness and sharpness by following the instructions.

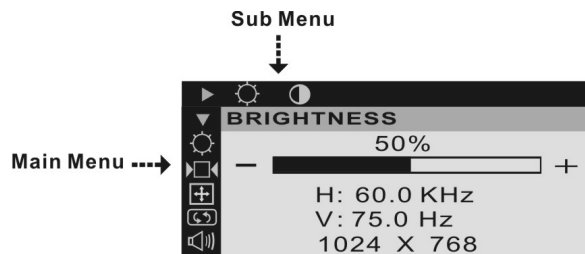


Buttons	Functions
EXIT Button	Exit the OSD (On Screen Display)
Arrow key	Press to bring up the On Screen Display and select main menu items
↕ Arrow key	Press to bring up the On Screen Display and select sub menu items
“-” Minus key	Adjust sub-setting bars i.e. CONTRAST, BRIGHTNESS, etc. to decrease setting values of the OSD
“+” Plus key	Adjust setting bars i.e. CONTRAST, BRIGHTNESS, etc. to increase setting values of the OSD
LED power status display	Green – Normal operation Amber – Power Management (i.e. DPMS mode: reduces power consumption < 5W when receiving no horizontal and/or vertical sync signal)
Power Switch	For turning ON/OFF the monitor

How to Use the OSD (On Screen Display)

OSD function allows the user to easily adjust the display to the desired quality.

Structure of OSD



Operating Procedure

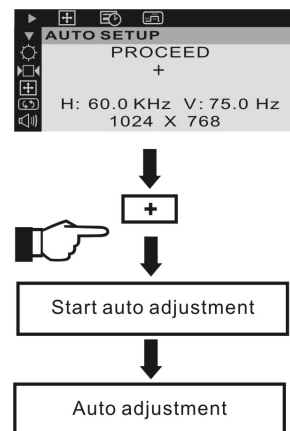
1. Power on the LCD monitor.
2. Press “ ” or “ ” to pop up OSD menu.
3. Press “ ” to select main menu item.
4. Press “ ” to select sub menu item.
5. Press “+” and “-” buttons to adjust.
6. Press the EXIT button when finish adjusting.

The Adjustment of Monitor’s Screen Display

There are two ways to adjust the monitor’s screen, i.e. auto adjustment and manual adjustment.

Auto adjustment

1. Power ON the LCD monitor and computer.
2. Select “AUTO SETUP” of OSD screens by pressing the “ ” button to “AUTO SETUP”.
3. Press “+” button while displaying “AUTO SETUP” screen.
4. The auto adjustment is started. “AUTO SETUP” will be displayed during auto adjustment. It takes about 10 seconds to finish adjustment.



Manual adjustment

- a) Power ON the LCD monitor and computer.
- b) Adjust according to the aforementioned “Operating Procedure” and “Menu Table” to adjust the screen to your favorable screen display.

OSD Adjustment Lock

This function is used to prevent changing the adjusted status by mistake. All the adjusting items except “BRIGHTNESS” will be locked.

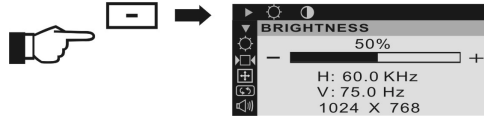
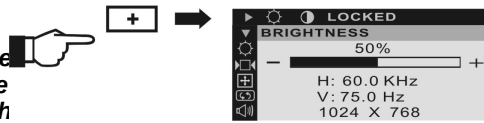
- a) Press the “ ” and “-” buttons simultaneously and the “CONTROL LOCK” screen is displayed.

- b) Press “+” button, and it will become “CONTROL LOCK” status. The “LOCKED” will be displayed in the up-right corner of screen indicating that OSD is in locked position.



NOTE
Do not touch the screen
angle. It may damage
catch your fingers wh

- c) To release the “CONTROL LOCK”, press “ ” and “-” buttons simultaneously and “CONTROL LOCK” screen will appear. Press “-” button to release the “CONTROL LOCK”. The “CONTROL LOCK” screen will disappear automatically.



- d) Volume control: directly push “+” and “-” button to turn up/down audio volume.

Adjusting the Viewing Angle

Your LCD Monitor is designed to allow you to adjust it to an optimal viewing angle.



Menu Table

Main Menu	Sub Menu	Function Name	Function
		BRIGHTNESS	Adjusts the level of brightness and darkness
		CONTRAST	Adjusts the RGB color pattern set of the contrast
		CLOCK	Adjusts the number of pixels from source video
		CLOCK PHASE	Adjusts the phase relative to video H-sync signal
		HORIZONTAL POSITION	Moves the screen horizontally (left/right)
		VERTICAL POSITION	Moves the screen vertically (up/down)
		AUTO SETUP	To auto adjust press the "+" button
		AUTO ADJUST	Automatically adjusts the clock, phase, H/V position values for the most optimal settings
		AUTO BALANCE	Automatically adjust the R,G,B to a suitable color in display.
		ALL RESET	Return to factory preset value
		OSD POSITION	Changes the OSD position
		LANGUAGE(optional)	Press "+" and "-" to choose OSD language
		DISPLAY MODE	"-" Represents the TEXT mode "+" Represents the GRAPHIC mode
		COLOR	STANDARD: Factory preset color
		MUTE	Disable or enable sound
		VOLUME	Adjust the volume of built-in speaker

FOR YOUR SAFETY

WARNING

ALWAYS OPERATE UNDER SPECIFIED POWER SUPPLY

Usage of incorrect voltage will cause malfunction and may cause fire or electric shock.

PROTECT and CORRECTLY USE THE CABLE

Do not pull or bend the power cable and signal cable or place the monitor or any heavy objects on the cables. If the cables are damaged, they may cause fire or electric shock.

IMMEDIATELY STOP OPERATING THE MONITOR WHEN YOU DETECT ANY ABNORMAL OCCURENCE

If you notice any abnormal phenomenon such as strange noise, smoke or smells, unplug the monitor and contact your dealer or the nearest service center immediately.

DO NOT REMOVE THE CABINET

Removing the cabinet may expose you to the danger of fire or electric shock.

DO NOT PUT ANY FOREIGN OBJECT INSIDE THE MONITOR

It may cause fire, electric shock or damage when operating the monitor with foreign objects inside.

DO NOT USE THE MONITOR NEAR WATER

Operating the monitor in close proximity to water where the water may be spilt or splashed onto the monitor may cause fire or electric shock.

BAD WEATHER CONDITIONS

It is advisable not to operate the monitor during heavy thunderstorms as intermittent breaks in power may cause malfunction. Do not touch the plug under these circumstances as it may cause electric shock.

CAUTION

DISCONNECT CABLES WHEN MOVING THE MONITOR

When moving the monitor, always turn off the switch, unplug the monitor, and disconnect the signal cable. If the cables are not properly disconnected when moving the monitor, it may cause fire or electric shock.

DO NOT TOUCH THE PLUG WITH WET HANDS

Pulling or inserting the plug with wet hands may cause electric shock.

HOLD THE PLUG WHEN DISCONNECTING

To disconnect the power cable or signal cable, always pull the cable by the plug. Never pull on the cable as this may cause fire or electric shock.

OTHERS

ERGONOMICS RECOMMENDATIONS

Do not operate the monitor in a dark room or against a bright background. For optimal viewing comfort, the monitor should be just below eye level and 30-60 cm (16-24 inches) away from your eyes. When using the monitor over a prolonged period of time, a ten-minute-break per hour is recommended.

SPECIAL NOTES ON LCD MONITORS

The following are normal with LCD monitors and do not indicate a problem.

- When first turning on the LCD monitor, if the picture does not fit in the display area, it is because of the type of computer that is used. In such case, adjust the picture position to its correct position. (See **Operating the Monitor.**)
- The screen may flicker during initial use. Turn off the power switch and then turn it on again the flickering should disappear.
- Users may notice a little uneven brightness on the screen depending on the desktop pattern they use. It is normal for LCD monitors to show such uneven brightness.
- Due to the nature of the LCD screen, switching of images after a prolonged period of time of displaying the same image, the image from the previous screen may remain. In such case, the screen is recovered slowly by changing the image or turning off the power switch for hours.
- If the screen becomes dark, flickers, or does not light-up, contact your dealer or the nearest service center for a backlight replacement. Do not attempt to replace it yourself.
- If you need to return your unit for service and the original packaging was discarded, please contact your dealer or the nearest service center for advice or replacement of packaging.

Cleaning

WARNING

- If you dropped any material or liquid such as water onto the monitor when cleaning, unplug the power cable immediately and contact your dealer or the nearest service center. Always make sure your hands are dry when unplugging the power cable.

CAUTION

- For safety reasons, turn-off the power switch and unplug the monitor before cleaning.
- Do not scratch or rub the screen with a hard object.
- Never use any of the following solvents on the LCD monitor. Such harsh chemicals may cause damage to the cabinet and the LCD screen.
Thinner Spray-type cleaner Benzene Wax Abrasive cleaner Acid or Alkaline solvent
- Rubbing the cabinet with products made of rubber or plastic for a long period of time may cause degeneration or loss of paint on the cabinet.

Cabinet

- Remove dirt with a lightly moistened cloth and a mild solvent detergent. Then wipe the cabinet with a soft dry cloth.

LCD

- Periodic cleaning with a soft dry cloth is recommended.
- Do not use tissue to clean the screen. It may damage the LCD screen.

Supported Timing

Display Mode			Analog	
			Horizontal Frequency	Vertical Frequency
VESA	VGA	640 x 480	31.5 KHz	60.0 Hz
		720 x 400	37.5 KHz	75.0 Hz
	SVGA	800 x 600	31.5 KHz	70.1 Hz
			35.1 KHz	56.3 Hz
			37.9 KHz	60.3 Hz
			46.9 KHz	75.0 Hz
	XGA	1024 x 768	48.1 KHz	72.0 Hz
			48.4 KHz	60.0 Hz
			56.5 KHz	70.0 Hz
			58.1 KHz	72.0 Hz
			60.0 KHz	75.0 Hz
Macintosh	VGA	640 x 480	35.0 KHz	66.7 Hz
		832 x 624	49.7 KHz	74.6 Hz
MS-DOS		640 x 350	31.5 KHz	70.1 Hz

Troubleshooting Procedures

If the LCD monitor fails to function correctly, please follow the following steps for a possible solution.

1. Perform the adjustments according to **Operating the Monitor**.
2. Refer to the following items if you cannot find a proper item listed in the **Operating the Monitor** or if the problem remains.
3. If the problem you have experienced is not described below or you cannot correct the problem, stop using the monitor and contact your dealer or the nearest service center for further assistance.

PROBLEM	CHECK TO SEE
No Display.	
a) Power indicator does not light up.	If the power cord is firmly plugged in the socket. If the power switch is turned on. If the AC socket is OK. Please check using another piece of equipment.
b) Power indicator is green.	If the blank screen saver is active, touch the keyboard or mouse. Increase the CONTRAST and/or BRIGHTNESS. If the computer is ON. If the signal cable is properly connected. If the signal timing of the computer is within the spec of the monitor.
c) Power indicator is amber.	If the monitor is on power management mode, touch the keyboard or the mouse. If the computer is ON. If the signal cable is properly connected. If the signal timing of the computer is within the spec.
Display is too dark or too bright.	If the video output level of the computer is within the spec.
Display is not in the center.	If the signal timing of the computer is within the spec.
Display is shaking.	If the power voltage is within the spec. If the signal timing of the computer is within the spec.
Display is not synchronized.	If the signal cable is properly connected. If the signal timing of the computer is within the spec. If the video output level of the computer is within the spec.

4. When "ATTENTION" is displayed:



- a. "POWER MANAGEMENT" is set to "OFF"
 - (1) Check if the signal cable is connected correctly to the computer.
 - (2) Check if the cable is broken.



After 5 seconds
→
of Display



- b. "POWER MANAGEMENT" is set to "ON"
 - (1) Check the signal cable is connected.
 - (2) Check the cable line is broken.
 - (3) Check the "POWER MANAGEMENT" function is operated correctly.

Power Management

The LCD Monitor complies with the VESA DPMS (version 1.0p) power management proposal. The VESA DPMS proposal provides four phases of power saving modes by detecting the horizontal or vertical sync signal.

Item	DPMS Mode	Display	Power LED	Power Consumption	Recovery Time	H-sync	V-sync
1	On	Normal	Green	Normal	---	On	On
2	Stand By	No Display	Amber	≤ 5W	3 sec	< 10 KHz	On
3	Suspend	No Display	Amber	≤ 5W	3 sec	On	< 10 Hz
4	Off	No Display	Amber	≤ 5W	3 sec	< 10 KHz	< 10 Hz

CONFORMITY AND COMPLIANCE

FCC Compliance 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 when the equipment is operated in a residential installation. This device 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 device does cause harmful interference to radio or television reception (this can be determined by turning the device off and on), you are encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and the 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.

Caution:

To comply with the limits for an FCC Class B computing device, you should use the shielded signal cord and power cord supplied with this unit. The Federal Communication Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radio Frequency Interference Statement

Warning:

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Canadian Doc Notice

For Class B Computing Devices

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

CE MARKING DECLARATION OF CONFROMITY

The LCD monitor complies with the requirements of related European standards, which include:

- Emission: EN 55022, EN 61000-3-2, EN-61000-3-3
- Immunity: EN 50082-1
- Safety: EN 60950 [Low-Voltage Directive (73/23/EEC)]



ENERGY STAR

This product meets the Energy Star guidelines for energy efficiency.



TCO'99 (White Color Only)

TCO'95 (For All Colors)

Congratulations! You have just purchased a TCO'99/TCO'95 approved and labeled products. Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

