

C1500 User Manual

WinBook[®]
display

WinBook's C1500 Flat Panel LCD User Manual

Getting Started	2
Introduction	2
Features	2
Unpacking and Checking the Box Contents	2
Assembling the Monitor	3
Connecting Your Monitor to the Computer	4
Adjusting the Viewing Angle	4

Operating the Monitor	5
How to Use the OSD (On Screen Display)	6
Adjusting the Display	6
Menu Table	7

For your Safety	8
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Special Notes on LCD Monitors	9
Cleaning	9
Supported Resolutions and Frequencies	10
Troubleshooting Procedures	11
Power Management	12

Conformity and Compliance	12
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Getting Started

Warning

Do not operate the LCD monitor without its matching power supply. An incorrect voltage may cause malfunction, fire or electric shock.

Introduction

Bright and sharp images of text and graphics are what you will find with this LCD color monitor. The C1500 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

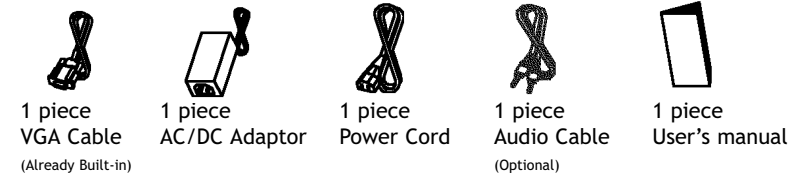
- 15.0" TFT active matrix color liquid crystal display
- Supports XGA resolution of 1024 x 768 pixels with 16.7 million colors
- Wide viewing angle:
 - Horizontal: 120°
 - Vertical: 100°
- Wide tilting angle: - 5° to 20°
- VESA DPMS-compliant power saving
- Multi-scan functions of XGA 1024 x 768, SVGA 800 x 600, VGA 640 x 480, 720 x 400, and 640 x 350 for perfect graphics performance.
- Digital Character Smoothing
- Automatic Set-Up
- Ergonomic Design: TCO '99 Approved
- Windows 95/98/2000/XP Plug & Play Compliant
- Versatile, functional & User friendly OSD
- Plug & Play: Conform to the VESA standards and support DDC1/2B spec.
- Extra slim design to maximize your desk space.

Unpacking and Checking the Box 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 the top of the box.
2. Remove the left and right cushions that protect the monitor during transport.
3. Carefully lift the monitor up and out of the box and place it on the designated area.
4. Remove the connector cover from the back of the monitor (pull from the bottom of the cover to open) to obtain access to the power plug.

Accessories

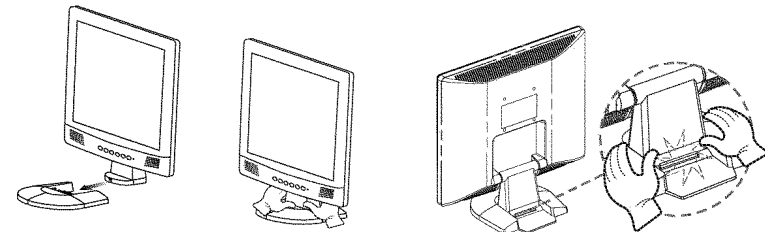


Assembling the Monitor

- **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) away from the walls
- **Safe** storage temperature of the LCD Monitor ranges from -20° to +65°.

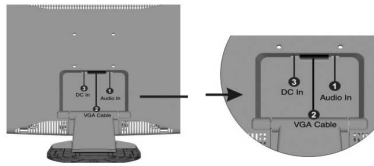
How to Assemble your LCD Monitor

- 1) Assembling the base plate included in the accessory kit.



Hold the base plate with one hand and the stem of the monitor with the other hand (the monitor should be in an upright position).

Position the monitor with the back facing you; secure the base plate with your fingers and push the stem of the monitor in towards you with your thumbs. When you hear an audible click sound, then it is securely locked-in. (**check and make sure that the security clip is properly locked-in**).



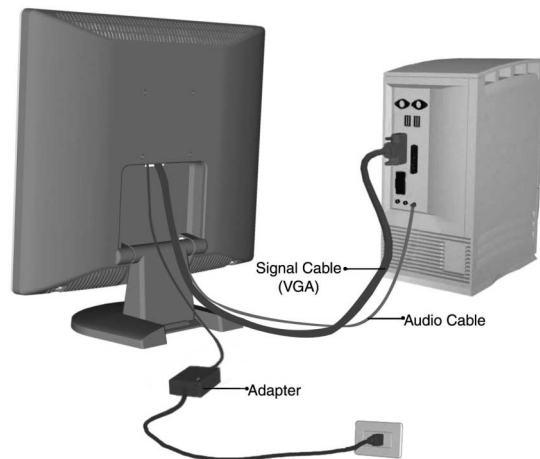
- 1 – **Audio in (optional)**
Allows you to playback audio through the monitor's built-in speakers.
- 2 – **VGA Cable**
Accepts the video signal from the computer.
- 3 – **DC In**
Powers the monitor via the AC adapter.

- 2) Plug the female end of the 1.8m power cord into the AC adaptor; then plug the DC connector of the adaptor to your monitor's DC In jack.
- 3) When you've completed the above steps, connect the male end of the power cord into the wall socket.

Note

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

Connecting Your Monitor to the Computer



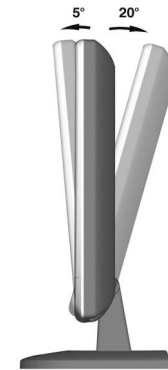
1. Turn off your computer and the LCD Monitor before attaching any cables.
2. Use the built-in VGA Signal Cable to connect your Monitor to the computer.
3. Make sure the cable is securely connected to the computer's VGA port by tightening the connecting screws to ensure a solid connection.
4. Turn on your computer and then turn on your LCD Monitor.

Adjusting the Viewing Angle

Your LCD Monitor is designed to allow you to adjust it to an optimal viewing angle. You can adjust the monitor upward to 20° and downward to -5°.

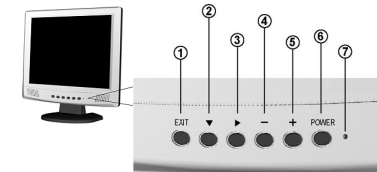
Note

Do not touch the screen while changing the viewing angle as it may damage the screen. Make sure not to pinch your fingers while changing the viewing angle.



Operating the Monitor

The LCD monitor has been preset at the factory with the default frequencies that create an optimal picture. Users are also able to adjust the picture to the desired brightness and sharpness by following the instructions.

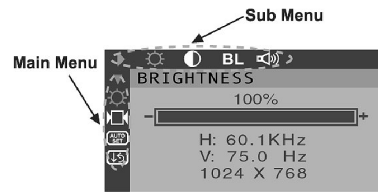


1 EXIT Button	Exit the OSD (On Screen Display).
2 Arrow key	Press to select main menu items.
3 Arrow key	Press to select sub menu items.
4 Minus key	Adjust setting bars i.e. CONTRAST, BRIGHTNESS, etc. to decrease setting values of the OSD.
5 Plus key	Adjust setting bars i.e. CONTRAST, BRIGHTNESS, etc. to increase setting values of the OSD.
6 Power	For turning ON/OFF the monitor.
7 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)

How to Use the OSD (On Screen Display)

OSD functions allow the user to easily adjust the display to the desired quality. The OSD menu includes a main menu and a sub-menu.

Structure of the OSD Menu



Operating Procedure

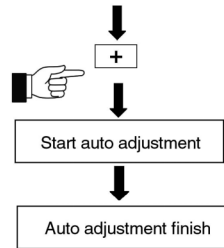
1. Power on the LCD monitor.
2. Press the "□" or "□" buttons to pop up OSD menu.
3. Press the "□" button to select main menu items.
4. Press the "□" button to select sub menu items.
5. Press the "+" and "-" buttons to adjust settings.

Adjusting the 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. Make sure that your LCD monitor is not "CONTROL-LOCKED" by pressing "□" and "-" simultaneously.
3. Press "-" to unlock. The "CONTROL LOCK" screen will disappear automatically or you may press "EXIT" to exit from the screen.
4. Press either the "□" or "□" to pop-up the OSD screen.
5. Scroll through the on screen icons by pressing the "□" button in order to reach the "AUTO SETUP" sub-menu item.
6. Press the "+" button while "AUTO SETUP" is highlighted.
7. The auto adjustment will started. "AUTO SETUP" will be displayed during auto adjustment. It takes a few seconds to finish adjustment.



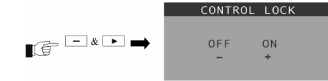
Manual adjustment

- a) Power ON the LCD monitor and computer.
- b) Make manual adjustments as needed to the menu table items listed below utilizing the OSD control buttons.

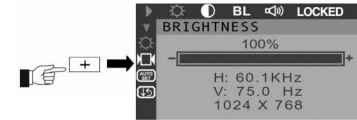
OSD Adjustment Lock

This function prevents OSD options from being changed by mistake. All Menu Table items except "BRIGHTNESS" will be locked.

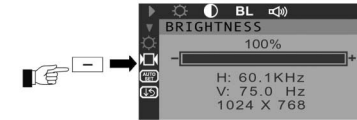
- a) Press the "□" and "-" buttons simultaneously to bring up the "CONTROL LOCK" screen. Pressing the "+" button at this time will lock the OSD menu. Pressing the "-" button at this time will unlock the OSD if previously locked.



- b) When the OSD menu is locked, any attempt to modify display settings (except brightness) will fail. A monitor that is locked will display a "LOCKED" message in the upper right corner of the screen indicating that the OSD is locked.



- c) To unlock the OSD, press the "□" and "-" buttons simultaneously to bring up the "CONTROL LOCK" screen. Press the "-" button to unlock the OSD. The "LOCKED" message will disappear automatically when the OSD is unlocked.



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.
	BL	BLACK LEVEL	Adjusts the level of darkness that composes black.
	🔊	VOLUME (optional)	Adjusts the volume of the built-in speakers.
📺	📺	CLOCK	Adjusts the number of pixels from the source video.
	🕒	CLOCK PHASE	Adjusts the phase relative to video Hsync signal.
	📏	HORIZONTAL POSITION	Moves the screen horizontally (left/right).
	📏	VERTICAL POSITION	Moves the screen vertically (up/down).
AUTO SET	AUTO SET	AUTO SETUP	To auto adjust press the "+" button.
	AUTO ADJ	AUTO ADJUST	Automatically adjusts the clock, phase, H/V position values for the most optimal settings.
🔄	🔄	ALL RESET	Return to factory preset values.
	📍	OSD POSITION	Changes the OSD position.
	Zz	POWER SAVE	Power management function.
	🗨️	LANGUAGE	Press "+" and "-" to choose OSD language.
	📄	DISPLAY MODE	"-" Represents the Text mode. "+" Represents the Graphic mode.
🎮	🎮	COLOR	Standard: Factory preset color. Custom: Preferred color is adjusted.

For your Safety

Warning

- Allow the monitor to determine its correct settings by running the "Auto Setup" function within the OSD controls.
- **Protect and correctly use the cable**
Do not pull or bend the power and VGA cables. Do not 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 occurrence**
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**
Foreign objects may cause fire, electric shock or damage when operating the monitor.
- **Do not use the monitor near water**
Operating the monitor in close proximity to water is cause for concern due to the possibility of 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 power, unplug the monitor, and disconnect the VGA cable.
- **Do not touch the plug with wet hands**
Pulling or inserting the plug with wet hands may cause electric shock.
- **Properly hold the plug when disconnecting cables**
When disconnecting the power cable or VGA cable, always pull the cable by the plug. Never pull on the cable as this may cause fire, electric shock or damage to the monitor.

Others

• Ergonomic 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 40-60 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 the monitor needs adjusted to accommodate the computer it is now attached to. In such a case, adjust the picture position to its correct position by running the "Auto Setup" option found in the OSD menu. (See Operating the Monitor)
- The screen may flicker during initial use. Turn off the power switch and then turn it on again and 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.
- 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 - Abrasive cleaner
 - Benzene - Acid or Alkaline solvent
 - Wax
- 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 Resolutions and Frequencies

Display Mode		Analog	
		Horizontal Frequency	Vertical Frequency
VESA	VGA – 640 x 480	31.5 KHz	60 Hz
	720 x 400	37.5 KHz	75 Hz
	SVGA – 800 x 600	35.1 KHz	56.3 Hz
		37.9 KHz	60.3 Hz
		46.9 KHz	75.0 Hz
		48.1 KHz	72 Hz
	XGA – 1024 x 768	48.4 KHz	60.0 Hz
		56.5 KHz	70 Hz
58.1 KHz		72 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

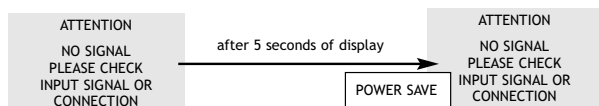
Troubleshooting Procedures

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 section 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • If the monitor is in 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.	<ul style="list-style-type: none"> • If the video output level of the computer is within the spec.
Display is not in the center.	<ul style="list-style-type: none"> • If the signal timing of the computer is within the spec.
Display is shaking.	<ul style="list-style-type: none"> • If the power voltage is within the spec. • If the signal timing of the computer is within the spec.
Display is not synchronized.	<ul style="list-style-type: none"> • 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.
- b. "POWER MANAGEMENT" is set to "ON"
- (1) Check if the signal cable is connected
 - (2) Check if the cable line is broken
 - (3) Check if the "POWER MANAGEMENT" function is operating 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	<10KHz	<10Hz

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 shielded 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 Conformity

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

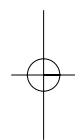
This product meets the Energy Star guidelines for energy efficiency.



TCO'99

Congratulations! You have just purchased a TCO'99 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.





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