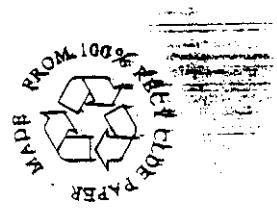


Attachment

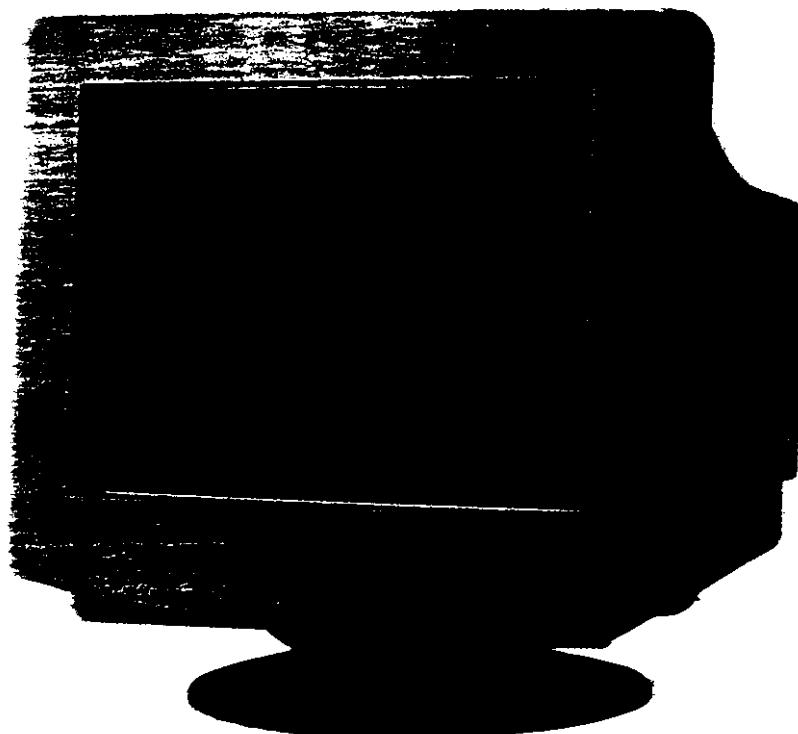
User Manual



DIGITAL CONTROL COLOR MONITOR

A PROFESSIONAL DISPLAY SYSTEM
* NON-INTERLACED * FULL SCREEN * GREEN *

USER'S MANUAL



This monitor is a fully microprocessor controlled autoscans color display monitor. With its high resolution and multi-frequency range, it can be driven by both standard graphic adaptors and/or specially designed graphic cards. In order to ensure proper usage, please thoroughly read the contents of this manual.

Contents

■ Specifications	1
■ Safety Precautions	2
■ Precautions	2
■ EPA Energy Star Statement	2
■ Features	2
■ Federal Communication Commission Requirement	3
■ Monitor Care	3
■ In Case of Difficulty	3
■ Installation	4
■ Theory of Operation	5

■ Specifications

Feature	Description																	
Power Source	AC 100V to 240v, 50/60Hz																	
CRT Size	14"(CM8588D), 15" (CM8688D)																	
Dot Pitch	0.28mm																	
Phosphor	P22 Medium-short persistence phosphor																	
Deflection Angle	90 Degrees																	
Deflection Characteristics																		
Horizontal frequency	30 to 54 KHz (CM8588D), 30 to 70 KHz (CM8688D)																	
Vertical frequency	45 to 90 Hz Continuous																	
Video Response																		
Bandwidth	55MHz (CM8588D), 110MHz (CM8688D)																	
Resolution	640x350, 720x400, 640x480, 800x600, 1024x768, 1280x1024(CM8688D) 8514A, Super VGA, VGA, XGA & Various																	
Connectivity	Graphic Adaptors with deflection characteristics specified above.																	
Input Signal																		
Signal type	Analog																	
Video signal level	0.5 to 1.0 Vp-p (0.7V standard)																	
H-drive signal level	3.5 Vp-p TTL signal negative/positive																	
V-drive signal level	3.5 Vp-p TTL signal negative/positive																	
Display Format																		
Display area	260x195mm \pm 5mm																	
Linearity	Less than 10%																	
Geometry distortion	Less than 2.5mm																	
External Control																		
Control type	Full micro-processor control																	
Control signals:	Contrast/Brightness/V-size/V-center/H-size/H-phase/Pincushion/Trapezoid Controls on the panel.																	
Video Cable	Cable with 15 pin D-Sub connector																	
Pin Assignment	 <table> <tr> <td>Pin 1 : R</td> <td>Pin 9 : Non</td> </tr> <tr> <td>Pin 2 : G</td> <td>Pin 10 : Ground</td> </tr> <tr> <td>Pin 3 : B</td> <td>Pin 11 : Ground</td> </tr> <tr> <td>Pin 4 : Non</td> <td>Pin 12 : Non</td> </tr> <tr> <td>Pin 5 : Ground</td> <td>Pin 13 : H-Sync</td> </tr> <tr> <td>Pin 6 : Ground</td> <td>Pin 14 : V-Sync</td> </tr> <tr> <td>Pin 7 : Ground</td> <td>Pin 15 : Non</td> </tr> <tr> <td>Pin 8 : Ground</td> <td></td> </tr> </table>	Pin 1 : R	Pin 9 : Non	Pin 2 : G	Pin 10 : Ground	Pin 3 : B	Pin 11 : Ground	Pin 4 : Non	Pin 12 : Non	Pin 5 : Ground	Pin 13 : H-Sync	Pin 6 : Ground	Pin 14 : V-Sync	Pin 7 : Ground	Pin 15 : Non	Pin 8 : Ground		
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Weight	11.0Kgs(Net), 12.5Kgs(Gross) for CM8588D 12.5Kgs(Net), 14.0Kgs(Gross) for CM8688D																	
Unit Dimension (H.X.W.X.D)	427 x 425 x 382 mm. for CM8588D 455 x 435 x 440 mm. for CM8688D																	

■ Safety Precautions

WARNING

THIS APPARATUS MUST BE EARTHED FOR YOUR SAFETY

1. To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.
2. For plugable equipment the socket-outlet shall be installed near the equipment and shall be easily accessible.
3. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired cords are a major cause of fatality.
4. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.
5. For your safety, if in any doubt about the effective earthing of the equipment, consult your qualified dealer.
6. Before connecting the computer display to the power line make sure that the correct national power supply cord is used.

■ Precautions

1. Do not attempt to disassemble the Computer Display.
To prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.
2. Do not operate this Computer Display beyond the temperature and humidity range specified
3. Do not remove the grounding pin on the power plug.
This Computer Display is equipped with a three-wired grounding-type power plug. This is a safety feature.
Do not defeat the purpose of the grounding Plug.
4. Do not insert sharp objects into the Computer Display. They may cause fire accident or failure.
5. Do not expose this unit to rain or moisture.
6. If the unit does not operate properly, turn off the power switch and remove the power plug from the outlet.
7. If any liquid or solid object accidentally falls into the cabinet, unplug the monitor and have it checked by qualified personnel before operating it further.

■ EPA Energy Star Statement

As an Energy Star Partner, has determined that this product meets the Energy Star guidelines for energy efficiency.

■ Features

1. It offers ANALOG input, and can display unlimited palette of colors.
2. True ERGONOMICS design with Tilt/Swivel standard.

■ Federal Communications Commission Requirements

Notice: 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 switching the equipment off and on, the user is 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 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.

Notice:

1. A Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied cord be used.
2. Use only shielded cables to connect I/O devices to this equipment.
3. Changes or modifications not expressly approved by the responsible for compliance could void the user's authority to operate the equipment.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

■ Monitor Care

Location

- Place on a level support.
- Provide sufficient ventilation.
- Avoid heaters and direct sunshine.

Cleaning

- Turn power "OFF" and remove power cord from wall outlet.
- To clean cabinet, use cloth soaked in liquid dish detergent (diluted with water) and wrung out.
- To clean CRT, use soft cloth or tissue papers and a glass cleaner.

■ In Case of Difficulty

If your monitor fails to operate properly, check the chart below. It may save you the cost of a service call.

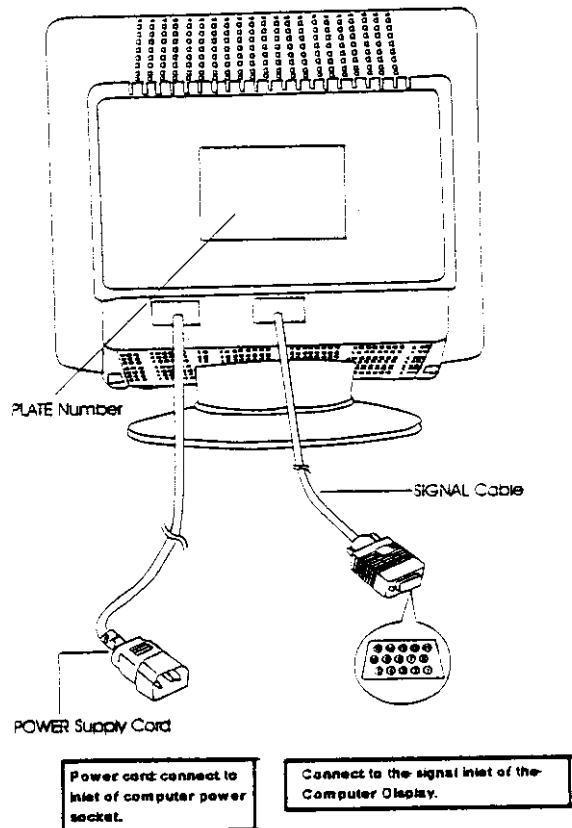
Symptoms	Possible Causes
No Picture	<ul style="list-style-type: none">- AC cord not plug in.- Brightness and contrast controls turned down.- Video cable not connected.
Poor contrast	<ul style="list-style-type: none">- Contrast adjustment is improper.- Low input signal level.
Poor synchronization	<ul style="list-style-type: none">- Low input signal level.

Note: If you have problems that can not be easily corrected, disconnect the AC plug and call your local dealer or service center.

■ Installation

1. One signal cable with 15-pin D-shell connectors, one power cord, and one user's manual are all provided with this monitor.
2. Connect the 15-pin video signal cable to the appropriate sockets on the PC and lock attached screws to ensure the proper connection between monitor and PC system.
3. Changing the Screen's Viewing Angle:
The monitor can be rotated in order to change the screen's viewing angle and accommodate different seating.
4. When turning the unit on the power LED indicator illuminates, and the monitor simultaneously auto detects the frequency of the input video signal.

Connections

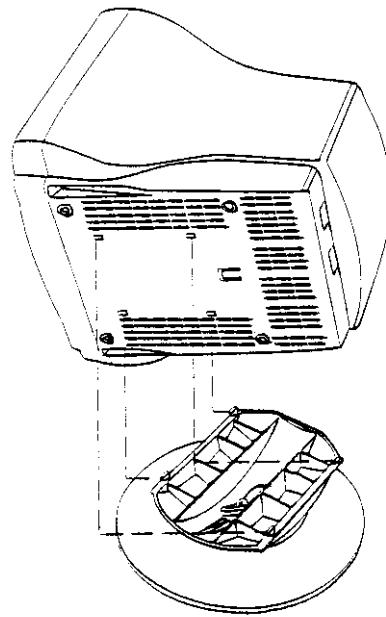


Preparations Before Connection

1. Install the unit on a level and hardsurface. Be sure not to obstruct the ventilation holes on the cabinet.
2. Avoid exposing the display to direct sunlight or other bright lights.
3. Before connecting the computer display to the personal computer make sure that both power switches are off.

Connection

The method for connecting this computer display to a personal computer is as shown.



How to install the Tilt/Swivel Base

This monitor includes a detachable tilt/swivel base meeting with the demand of ergonomics. Install the tilt/swivel base on the monitor according to the following procedures before linking together with your computer system.

1. Place the monitor upside-down with the screen facing you.
2. Hold the base upside-down with the wide part toward the front of the monitor.
3. Insert the four base tabs into four slots on the monitor.
4. Push the base down and forward until it is locked.
5. Turn the monitor right-side up after making sure the base is firmly attached to it.

■ Theror of Operation

LED Function and Description

Icon	Display Feature	Description	
1		Contrast	" ▲ " Stronger " ▼ " Weaker
2		Brightness	" ▲ " Brighter " ▼ " Darker
3		Ver-Size	" ▲ " Bigger " ▼ " Smaller
4		Ver-Position	" ▲ " Move Up " ▼ " Move Down
5		Hor-Width	" ▲ " Wider " ▼ " Narrower
6		Hor-Phase	" ▲ " Shift To Left " ▼ " Shift To Right
7		Pincushion	" ▲ " Inward " ▼ " Outward
8		Trapezoid	" ▲ " Enlarge Bottom " ▼ " Enlarge Top
9		Power & Power Saving	Green-Operating Indicator, Orange-Power Saving Indicator.

Operation keys Function Description

Keystrok	Descriptions
	1. Press "►" key to adjust the display feature as specified in 「LED Function」, the biling change from icon 1,2,3.....8, for each time of pressing.
	2. Press "◀" key to adjust the display feature as specified in 「LED Function」, the biling change from icon 8,7,.....1, for each time of pressing.
	3. Press "►" & "◀" key to adjust the display feature as specified in 「LED Function Deserption」.