



CHA5807L

Color Monitor



**Owner's
Instructions**





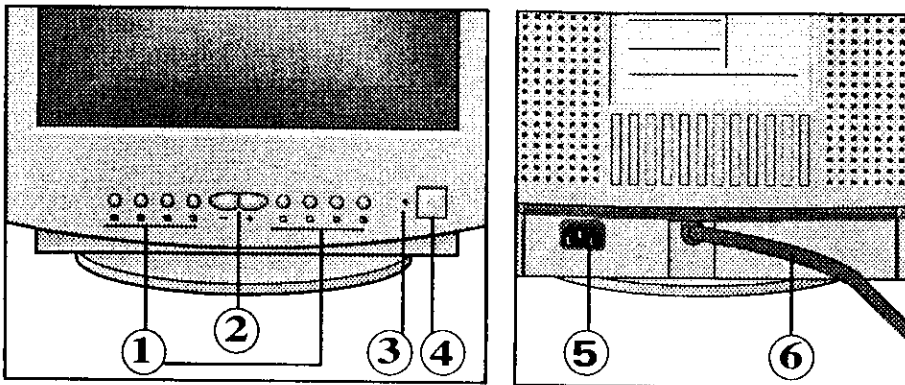
Preface: Safety Information

Please read and follow these instructions when connecting and using your computer monitor.

- 1** Before connecting the AC power cord to an outlet, make sure the voltage designation on your monitor corresponds to the local electrical supply.
- 2** Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.
- 3** To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor's case.
- 4** Never use your monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from where people could trip over it.
- 5** Be sure to hold the plug, not the cord, when disconnecting the monitor from an electric socket.
- 6** Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
- 7** Put your monitor in a location with low humidity and a minimum of dust. Avoid places like damp basements or dusty hallways.
- 8** Do not expose the monitor to rain or use it near water (in kitchens, next to swimming pools, etc.). If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the monitor with a damp cloth when necessary, but be sure to unplug the monitor first.
- 9** Place the monitor on a solid surface and treat it carefully. The screen is made of glass and can be damaged if dropped or sharply hit.
- 10** Locate your monitor near an easily accessible AC outlet.
- 11** If your monitor does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.
- 12** High temperatures can cause problems. Don't use your monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.
- 13** Unplug the monitor when it is going to be left unused for an extended period of time.
- 14** Unplug your monitor from the AC outlet before any service.

Chapter One: Overview of Your Monitor

English



Front Panel

- 1 Function control buttons**
Use these buttons to control the shape of the display area, and to control the color qualities of the display image.
- 2 Adjustment buttons**
Use the decrease (-) button to lower the value of the selected function. Use the increase (+) button to raise the value of the selected function.
- 3 Power indicator**
This light glows green during normal operation.
- 4 Power button**
Use this button to turn the monitor on and off.

Rear Panel

- 5 Power port**
Connect the power cable here.
- 6 Signal cable**
Connect this cable to the video connector on your computer.



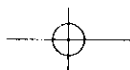
Appendix

Specifications

Picture Tube	<ul style="list-style-type: none">• 36 cm (14") Full square type [33.5 cm (13.2") viewable]• 90° deflection• 0.28 Dot pitch• Silica coated with anti electrostatic properties• Medium-short persistence phosphor
Synchronization	<ul style="list-style-type: none">• Horizontal: 30 kHz to 55 kHz (automatic)• Vertical: 50 Hz to 120 Hz (automatic)
Display Color	<ul style="list-style-type: none">• Unlimited
Maximum Resolution	<ul style="list-style-type: none">• Horizontal: 1024 dots• Vertical: 768 lines
Active Display	<ul style="list-style-type: none">• Horizontal: 255 ± 4 mm (10.04" ± 0.16")• Vertical: 191 ± 4 mm (7.52" ± 0.16")(Active display size is dependent upon signal timing)
Input Signal, Terminated	<ul style="list-style-type: none">• Analog 0.7 Vpp positive at 75 Ω• Separate sync: TTL level, positive or negative
Maximum Pixel Clock	<ul style="list-style-type: none">• 65 MHz
Power Supply	<ul style="list-style-type: none">• AC 100-240 Volt ± 10%, 60 Hz/50 Hz ± 3 Hz
Power Consumption	<ul style="list-style-type: none">• 73 Watt maximum
Dimensions/Weight	<ul style="list-style-type: none">• Unit: 348 x 385 x 362.5 mm; 10.5 Kg 13.7 x 15.2 x 14.3 inch (W x D x H); 23.1 lbs.• Carton: 422 x 460 x 390 mm; 12.4 kg 16.6 x 18.1 x 15.4 inch (W x D x H); 27.3 lbs.(All measurements approximate.)
Environmental Considerations	<ul style="list-style-type: none">• Operating Temperature: 32°F to 104°F (0°C to 40°C) Humidity: 10% to 80%• Storage Temperature: -4°F to 113°F (-20°C to 45°C) Humidity: 5% to 95%



NOTE: Design and specifications are subject to change without prior notice.



Pin Assignments

Sync Type	15 Pin Side of the Signal Cable (Figure 1)	Cable Adapter (Figure 2)
Pin No.	Separate	Apple MAC II
1	Red	GND-R
2	Green	Red
3	Blue	H/V Sync
4	GND	Sense 0
5	DDC Return	Green
6	GND-R	GND-G
7	GND-G	Sense 1
8	GND-B	Reserved
9	Reserved	Blue
10	GND-Sync/Self-Raster	Sense 2
11	GND	GND
12	DDC Data	V-Sync
13	H-Sync	GND-B
14	V-Sync	GND
15	DDC Clock	H-Sync

Figure 1 : Male Type

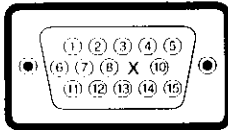
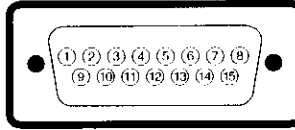


Figure 2 : Male Type



Display Modes Timing Chart

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, VGA2, 720 x 400	31.469	70.087	28.322	- / +
IBM, VGA3, 640 x 480	31.469	59.940	25.175	- / -
VESA, 640 x 480	37.500	75.000	31.500	- / -
VESA, 640 x 480	43.269	85.008	36.000	- / -
VESA, 800 x 600	46.875	75.000	49.500	+ / +
VESA, 800 x 600	53.674	85.061	56.250	+ / +
VESA, 1024 x 768	60.023	75.029	78.750	+ / +



Appendix

FCC Information

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

NOTE: 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 receptions, which can be determined by turning 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.

User Information

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

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called *How to Identify and Resolve Radio/TV Interference Problems* helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with simi-

lar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

MPR II Compliance

This monitor complies with SWEDAC (MPR II) recommendations for reduced electric and magnetic fields.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) – Radio Frequency Interference
- EN50082-1 : 1992 – Electromagnetic Immunity
- EN60555-2 (IEC555-2) – Power Line Harmonics
- EN60555-3 (IEC555-3) – Voltage Fluctuations
- EN60950 (IEC950) – Product Safety

