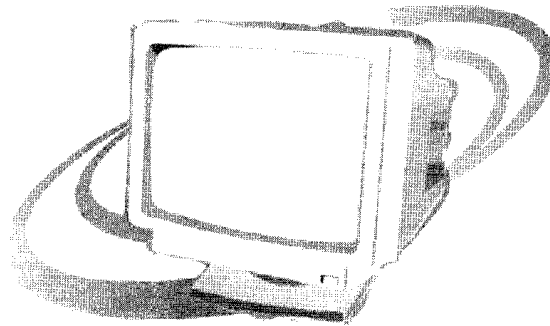


COLOR

Monitor

DIGITAL



C777

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Introduction

Congratulations! You are now the owner of our Color Monitor. To ensure proper operation, please carefully read this manual. After you've read this manual, keep it in a safe place for future reference.

The model is a 17-inch(15.8 inches viewable) intelligent, microprocessor based monitor compatible with most analog RGB (Red, Green, Blue) display standards, including IBM PC®, PS/2®, Apple®, Macintosh®, Centris®, Quadra®, and Macintosh II family. It can also be used with a Sun SPARC workstation as well as other sources using the 5 BNC connectors(option). The monitor provides crisp text and vivid color graphics with VGA, SVGA, XGA, VESA Ergo modes (non-interlaced), and most Macintosh compatible color video cards when used with the appropriate adapter.

The monitor's wide compatibility makes it possible to upgrade video cards or software without purchasing a new monitor.

Digitally controlled auto-scanning is done with the microprocessor, for horizontal scan frequencies between 30 and 70KHz, and vertical scan frequencies between 50 and 120Hz. The microprocessor based intelligence allows the monitor to operate in each frequency mode with the precision of a fixed frequency monitor. In the PC area, this relates to a maximum flicker free usable resolution of 1024x768 at a non-interlaced refresh rate of 75Hz Vertical.

This model also has a built-in power management system that allow the monitor to automatically reduce its power consumption when not in use. This unique ability to reduce power consumption functions ONLY when used with VESA DPMS (Display Power Management Signaling) compatible PC's or video controllers. This model complies with the new Energy Star Computers Program initiated by the EPA.

In the display card setting, please setting the vertical frequency $\geq 70\text{Hz}$ to protect your eyes and decrease the strength of glaring.

Safety Precautions

- * Disconnect the monitor from the main supply if the monitor is not to be used for an extended period of time.
- * Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personal.
- * Do not place objects on top of the monitor cabinet, which could fall into vents or which could cover them and prevent proper cooling of the monitor's electronics.
- * Do not expose the monitor to rain or excessive moisture to avoid the risk of shock or permanent damage to the set.
- * This product can be damaged by detergents, thinners, etc. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the main supply before cleaning.
- * Consult a service technician if the monitor does not operate normally when the operating instructions are followed.

Package

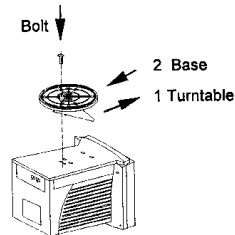
After unpacking, check to make sure the following items are included:

1. The monitor : one
2. Tilt / Swivel base : one
3. Operation Manual : one
4. Power cord : one
5. Signal cable

Before Use

Install the tilt / swivel base

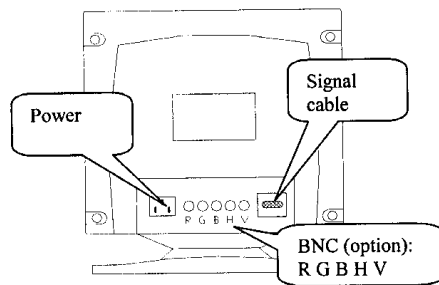
- * Place the monitor upside-down with the screen facing you.
- * Hold the base upside-down.
- * Insert the hooks on the turntable into slots of monitor. Slide the base toward the front of the monitor(direction 1), until the hooks clicks into the locked position.
- * Push base toward direction 2 entirely, moving base clockwise or anti-clockwise until aligning the holes of the base and turntable, screw down.



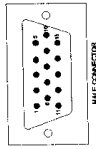
Computer connection

Notice: Shut down the power of the computer before connecting the monitor.

- Connect the monitor power.
- Connect the monitor signal cable.

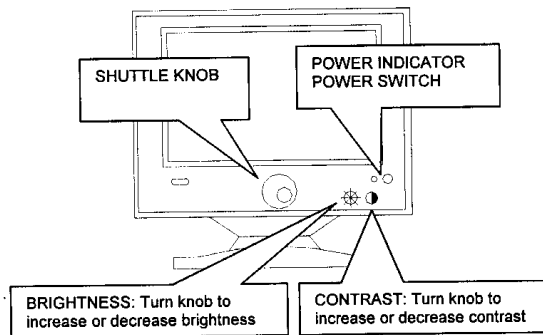


Signal Cable Description:



PIN NO.	DESCRIPTION
1	RED
2	GREEN
3	BLUE
4	GROUND
5	SELF-TEST
6	RED GROUND
7	GREEN GROUND
8	BLUE GROUND
9	NC
10	GROUND
11	GROUND
12	SDA
13	HOR-SYNC
14	VER-SYNC
15	SCL

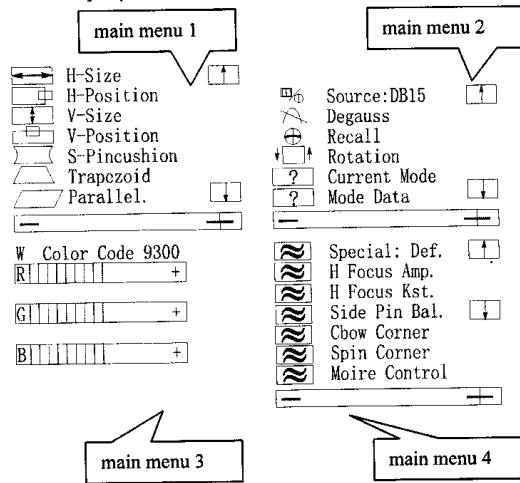
Front Panel Control Knob:



The shuttle knob (OSD function selection and adjustment) is located at the base of the monitor. User could make a good appearance of the monitor to suit personal preference by this knob.

Select the OSD menu

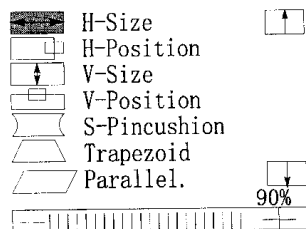
1.The OSD main menu (refer to the following figure) is display on the screen when you press shuttle knob and turn shuttle knob.



2. Turn shuttle knob until the icon of your selected is highlighted, then press the shuttle knob, turn the shuttle knob to make the desired adjustments. The following is an outline of the available adjustments and selections you can make using the OSD.

Example (assuming that you already select the icon of H-Size) :

Note: (Monitor and PC should be on, with an image or prompt on the screen) The main picture area will show the selected icon (highlighted) and a brief description (here H-Size). If you turn the shuttle knob, the display will look like:



The bar graph shows you the current level of the selected "H-Size" control. Use the shuttle knob to increase or decrease the level to fit the screen or your desired size.

4. After finished the adjustments you can go back to menu by pressing shuttle knob again.

5. The OSD window will automatically shut off after about 5 seconds.

Adjust The Picture

1. H-Size

Turn shuttle knob to enlarge or reduce horizontal size.

2. H-Position

Turn shuttle knob to reposition display to the right or left.

3. V-Size

Turn shuttle knob to enlarge or reduce vertical size.

4. V-Position

Turn shuttle knob to move the entire picture upward or downward.

5. S-Pincushion

Turn shuttle knob for optimal pincushion or barrel picture.

6. Trapezoid

Turn shuttle knob for optimal trapezoid picture.

7. Parallel

Turn shuttle knob for optimal parallelogram screen picture.

8. Source: DB15/BNC

Input connector: 15pin-D type or BNC.

9. Degauss

Select this icon for manual degaussing.

21. Spin Corner
Corner balance control.
22. Moire Control
Moire Control

Power Management System

For the power saving feature to operate, the monitor must be used with either a PC having power saving circuitry or a PC running screen blanking software. The monitor has three power-saving states, and the power saving operation is indicated by the power indicator on the front panel.

When the power indicator is green, operation is normal. When the power indicator is red (stand-by, suspend) or flash red (off state), the monitor is in a power saving mode. If the power indicator is red and you wish to use the PC again, move your mouse pointer or touch a keyboard button. When the monitor is not in use, save energy by turning it off.

Image Adjustment

This monitor has a microprocessor-based control system for adjusting the following items: Contrast, Brightness, Horizontal width, Horizontal position, vertical height and position, Side pincushion and trapezoid, etc. When you make adjustments to any of the above items, the microprocessor will automatically memorize the adjustments you made. Your setting will be maintained even if you turn off the monitor and turn it on again.

Video Memory Modes

For convenience, the monitor has a 28 mode memory, of which 8 modes come from the factory preset to popular video modes as described below.

	Model	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
1	VGA	640x350	31.4	70
2	VGA	640x400	31.4	70
3	VGA	640x480	31.4	60
4	VESA	640x480	37.9	73
5	VESA	800x600	37.8	60
6	VESA	1024x768	48.4	60
7	VESA	1024x768	56.5	70
8	VESA	1280x1024	63.7	60

Modes 9-28 are empty and can accept new video data.

If the monitor detects one of the above signals from your computer's video card, it will recall that mode and any stored image adjustments you may have made before. If the monitor detects a new video mode that had not been present before or is not one of the above listed factory presets, it will store a new mode automatically in one of the blank (empty) memory modes (in this example, mode 9). When you now adjusted the controls to your preference, these image settings will also be stored in mode 9. Whenever your video card or PC switches to the mode that the monitor recognizes as mode 9, your personal image setting also be recalled.

A Note About The Video Memory Modes

There is a total of 28 video memory modes, generally more modes than you will use at any one time. Of these 28 modes, 8 are factory fixed modes that don't need to be changed. The remaining 20 modes are left blank (empty). If you use up the 20 blank modes and still have more new video modes, the monitor will delete the lowest memory mode and add the new mode.

If you use a video card that has a number of resolutions and frequencies that do not correspond to any of the monitor video modes set at the factory, here's what will happen:

- 1) As the monitor encounters new video data, if you adjust the image control, the monitor will save the new information in the next available empty mode (mode 9 if this is the first new data encountered).
- 2) If you have used modes 28 with 20 new video modes, and the monitor encounters another mode (29th mode), it will store the new data in mode 9 and the old data of mode 9 is deleted.

If you have used modes 28 with 20 new video modes, and the monitor encounters 30th data will replace the mode 10, with above method, when this monitor encounters new mode, it can update from mode 9 to mode 28 sequentially and continuously.

Example: All 28 modes are filled with following data

1	2	3	4	5	6	7	8	9	10		28
Factory fixed								User modes			

When new data (the 29th mode) is encountered

1	2	3	4	5	6	7	8	9	10		28
Factory fixed								User modes (old mode 9 deleted)			

Because the monitor is designed this way, you will have the most common 20 video modes generated by your graphics card available with your own image setting recalled automatically.

DDC (Display Data Channel)

DDC is a communication channel over which the monitor automatically informs the host system (PC) about its capabilities. This monitor has DDC functions:DDC1,DDC2B .

NOTE: The PC must support DDC functions to do this.

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Specifications

1. General Information

Model		C777
CRT	SIZE (VIEWABLE)	17"(15.8")
	TYPE	17" CONVENTIONAL
	DOT PITCH	0.27mm
VIDEO	FACE PLACE	NON-GLARE
	INPUT SIGNAL	ANALOGUE
	AMP BANDWIDTH	110MHz
HORIZONTAL	FREQUENCY	30-70 KHz
	RESOLUTION(MAX)	1280DOTS
VERTICAL	FREQUENCY	50-120Hz
	RESOLUTION(LINES)	MAX1024
DISPLAY	AREA(mm)	251X330
CONTROL	EXTERNAL or DIGITAL	BRIGHTNESS, CONTRAST, V-SIZE, H-SIZE, V-POSITION, ROTATION, H-POSITION, PINCUSHION, TRAPEZOID, etc
	POWER	
	INPUT VOLTAGE	100-240V AC (AUTO VOLTAGE) 60 / 50Hz
	CONSUMPTION	MAX 100 WATTS
	EPA(OPTION)	ON, OFF, SUSPEND, STAND BY
ACCESSORY	(POWER MANAGEMENT)	
	VIDEO CONNECTOR	15PIN D-SUB OR BNC(OPTION)
	POWER CORD	6 FEET AC POWER CORD
OPERATING TEMPERATURE		5°C to 35°C
OPERATING HUMIDITY		5% to 90%
REGULATIONS SAFETY		UL, CUL, TUV/GS, CE, DHS, FCC, MPR-II TCD-45



Notice: Design and specifications are subject to change without notice, and don't represent a commitment on the part of our company.

Federal Communications Commission (FCC)

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 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.

FCC Caution: To assure continued compliance, use only the provided shielded signal cable when connecting to computer. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

Commission Federale de la Communication (FCC)

Cet équipement a été testé et déclaré conforme aux limites des appareils numériques de classe B, aux termes de l'article 15 des règles de la FCC. Ces limites sont conçues de façon à fournir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. Cet appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être détecté en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.

ATTENTION: Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

Sicherheitshinweise

1. Die Steckdose muß sich in der Nähe des Gerätes befinden und leicht zugänglich sein.
2. Zum Reinigen den Stecker aus der Steckdose ziehen. Beim Reinigen keine Flüssigreiniger oder sprays verwenden, sondern ein angefeuchtetes Tuch.
3. Das gerät nicht in Naßräume oder in der Nähe von Wasser benutzen, wie z.B. Badezimmer, Schwimmbad, Spülbecken usw.. Das Eindringen von Wasser kann zur Zerstörung des Gerätes führen.
4. Das gerät nicht auf einer instabilen Unterlage, wie z.B. Rollwagen, Gestell usw., aufstellen. Es könnte herunterfallen und Verletzungen oder Beschädigungen von Mensch und Gerät verursachen.
5. Die Belüftungsöffnungen nicht blockieren oder auf falscher Oberfläche, wie Bett, Sofa usw., stellen. Durch die Blockierung kann es zur Zerstörung des Gerätes durch Überhitzung kommen.
6. Versuchen Sie niemals dieses Gerät selbst zu warten, da beim Öffnen oder Abnehmen des Gehäuses die Gefahr eines elektrischen Schlages besteht.

7. Keine Gegenstände auf das Anschlußkabel stellen, damit es nicht durch scharfe Kanten zerstört werden kann.
8. Keinerlei Gegenstände durch die Öffnungen in das Gerät stecken, daes dadurch sonst zu Kurzschlüssen kommen kann.
9. Bei Störungen des Gerätes den Wartungsdienst verständigen.
10. Bei Reparaturen dürfen nur Originalersatzteile oder Bauteile mit gleichen Eigenschaften verwendet werden. Andere Bauteile können Feuer, elektrischen Schlag oder andere Gefahren verursachen.
11. Nach Beendigung von Wartungsarbeiten oder Reparaturen durch den Kundendienst sollte die Sicherheitsprüfung durchgeführt werden.
12. Bei längerem Stillstand des Gerätes, ist diese von der Versorgungsspannung zu trennen. Dies verhindert eine Beschädigung des Gerätes durch eine Überspannung in der Zuleitung.
13. Der arbeitsplatzbezogene Lärmschutzpegel nach DIN 45 635

Before Calling For Service

The following problems do not always denote a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.

If you have followed the guide but none of the remedies worked, unplug the set and call for service.

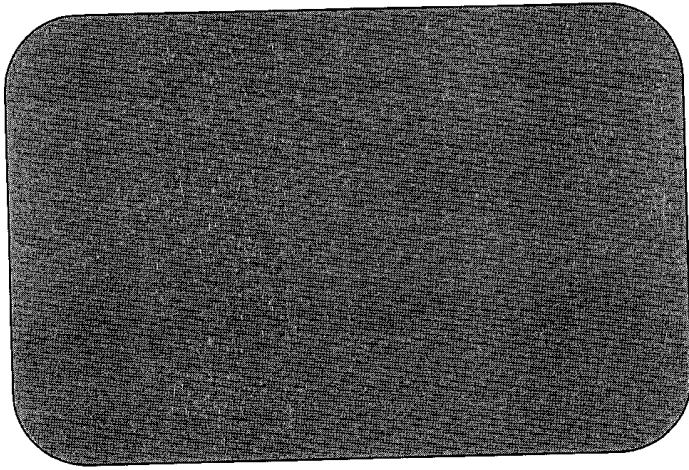
<i>Problem</i>	<i>Possible Remedy</i>
No Picture	• Check AC cord connection. • Check Video signal cable connection. • Adjust Brightness and Contrast controls.
Picture Distorted	• Adjust Pincushion control.
Poor Synchronization	• Check Input Signal Level • Check Picture Mode (We guarantee the best performance in standard mode listed in specifications.)



Notice: Inlet of the monitor have to be pulled out of the power outlet for repair!

Power Management

<i>Mode</i>	<i>Power Indicator</i>	<i>Power Used</i>
On	Green	< 100 Watts
Stand-by	RED	< 30 Watts
Suspend	RED	< 30 Watts
Off	FLASH RED	< 5 Watts



17" COLOR MONITOR



360-815016-02