# **FCC** Information

This equipment has been tested and found to comply with 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 can generates, uses, and radiate radio frequency energy and. if not installed and used in accordance with the instructions, may cause harmful inteference to radio Communications. However there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause unacceptable interference to radio and 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 or more of the following measures.

- Regrient or reocate 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.

#### **DECLARATION OF CONFORMITY**

PRODUCT NAME:17" COLOR MONITOR

MODEL NUMBER:1772E

FCC RULES:TESTED TO COMPLY WITH FCC PART 15, CLASS B

OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

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## Caution

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

## **Canadian Natice**

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations

## **Avis Canadien**

Cet appareil numérique de la classe B respecte toutes les exigences du Règiement sur le matériel brouilleur du Canada.

### Notice

The information contained in this document is subject to change without notice.

## Introduction

#### Package

Congratulations on your purchase of this top quality color monitor!

The items illustrated below are contained in the carton.

First, be sure that your carton includes all of them.

It any items are mssng or damaged, please contact your local dealer or supplier.



#### Safety information

- 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 similar configuration Betore making the connection ensure that the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenence outlet is equal to or exceeds the monitor current rating.
  - For 120Volt applications use only UL listed detachable power cord with NFMA configuration 5-15P type(parallel blades) plug cap.
  - For 240Volt applications use only UL listed detachable power cord with NEMA configuration 6-15P type(tandem blades)plug cap.
- Use only a power source and connection appropriate for the monitor as indicated on the marking label.
- Slots and openings in the cabinet are provided for ventilation; these openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Never insert anything metallic into the monitor openings.Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of the monitor. Only a qualified technican should open the monitor's case.
- Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or serosol cleaners. Use a damp, lint-free cloth tor cleaning.
- Install the monitor near an outlet that you Can reach easily Disconnect the product by grasping the plug firmly and pulling in from the outlet.
  Never disconnect it by pulling the cord.
- User's Manual

## Introduction

### **E** Features

#### Superior image

- On Screen menu fingertip control system to visually select and adjust screen using buttons on front panel and on screen menus.
- The exclusive double dynamic focus system with a hyperbolic focus compensation circuit controls the electron bearms resulting in a fine image display over the entire area of the screen.
- Super contrast screen for superior contrast and richer color.
- Advanced INVAR Shadow mask for superior focus, brightness and color.
- 17", 0.24dot pitch high resolution, non-interaced technology provides sharp, flicker-free images.
- On screen menu color control system easily allows the white of the image to be adjusted as well as R.G.B signals, resulting in true-to-life colors.

#### Ergonomic Design

- # Flat, square screen to reduce image distortion and glare, thus relieving eye strain.
- Tilt base allowing 90° rotation in the horizontal and 17° in the vertical for greater user comfort.
- Low-leak radiation prevention meeting MPR II and the very stringent TCO magnetic field as emissions standards for increased user safety.

### **Environmentally Friendly**

- Power management circuit conforming to VESA DPMS standards controls energy consumption when monitor is not in use, you save energy.
- All plastic parts are recycable. All materials are strictly selected to ensure ease of maintenance, inspection and disposal.

#### Timing

- Automatic tracking of horizontal frequencies of 30 to 72 kHz, and vertical frequencies of 50 to 160 Hz.
- Eight timings are factory preset for image size and position
- **III** Eight additional timings are user definable.
- Synchronizing input signals (separate, composite)can be automatically selected.

## Introduction

### System Flexibility

- Equipped with DDC1 DDC2B and DDC2Bi for Plug & Play compatibility.
- Monitor is compatible with VGA, SVGA XGA and high resolution video modes up to 1280(H)×1024(V)60Hz
- Monitor may be used with IBM or compatible PC, Mac.
- Automatic universal power supply is buit in permitting AC power input of 100-240VAC, 50 or 60Hz.
- Self-test menu allows the display unit to be checked on screen without connecting to a Computer.
- Compact case minmizes desktop space giving you a large screen image without loss of workspace.
- Power cable included easily plugs into a standard outlet.

#### Power management system

This monitor complies with VESA, Nutek, and Energy Star power saving requirements. The power saving system works only when used with VESA DPMS compliant PC's and/or graphic controllers.

State LED		Power	Recovery Time
Stand by	Green	< 60 Watts	2Sec
101.49	Care - 1844 (		
off	Green/Blink	< 3 Watts	15Sec

The monitor goes into various power saving stages depending on the incoming video signal as shown in the following table

State	Horizontal Sync	Vertical Sync
Stand by	Off	On
S. STORY C		
off	off	off

#### Note

The monitor automatically goes through the DPMS steps when it is idle.

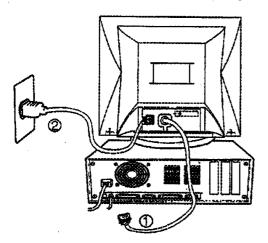
To release the monitor from the DPMS condition, press any key on the keyboard or mouse.

# Installation

## Connection to your computer

### **A** CAUTION

Ensure that both the PC and the display monitor are switched off.



To attach the monitor to your system, as shown in the following illustrations.

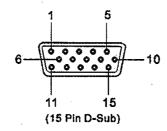
- Insert the AC power cord ② into monitor and then into an AC power outlet.
- Connect the signal cable ① to the 15pin graphics connector of the system and tighten the fastening screws.
- 3.To turn on the monitor, push the power switch.

Note: To attach the monitor to the Macintosh system, please contact an authorized deaer. (Need to use a special adaptor)

## Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment
	2000
2.	Green Video
	Sign of the Control o
4	Frame Ground
6	Red Video Ground
	Charles Michael Charles
8	Blue Video Ground
10	Sync. Ground
12	SDA
	945.49
14	V-Sync.

The 15-pin D-Sub connector (male) of the signal cable (IBM Systems):



## Controls

#### **OSD** controls

"ON SCREEN MENU" controls include the following extended controls such as Size, Position, Geometry, Color Adjust, Brightness and Contrast Utilities. Adjustments are saved instantly. The currently addressed control can be reset to factory settings by pressing the Reset button.



Function of OSD buttons on the front of the monitor

- 🖃 : In the main menu, exits the OSD controls. In a submenu, exits to the OSD main menu.
- ₩ -/+
  - 1) When no OSD on the Screen,
    - -: Direct access to Brightness controls.
    - +: Direct access to Contrast controls.
  - 2) When Main menu is displayed.: Moves to function what you want to adjust.
  - 3) When the Sub menu is displayed.: Controls the amount what you want to adjust.
- MENU: Displays OSD main Menu.
  - 1) When Main menu is displayed.: Selects function with RED ICON.
  - 2) When Sub menu is displayed.: Seects function with RED ICON.

#### Additional front controls

- Power Switch: Turns the monitor power on or off. When the power is on, the LED is on.
- LED Power indicator Light: Located left side of the power switch and indicates the monitor's power mode. Each mode reduces the amount of power used by the monitor.

Accessing on screen menu Press MENU Button.

Yurning off on screen menu

When in the main menu, press the button.

When in submenus, press the button twice.

# Controls

## **SOURCE** OSD Menu

OSD MENU	MENU	_	<del>  +                                   </del>	
1. NO OSD	Proceeds to NO.2	Proceeds to NO.3	Proceeds to NO.4	No meaning
2. MAIN MENU The function with REI ICON is -Performed: Recall, Degauss -Selected and blinked :Color Adjust, Zoom -Proceeded: Others		Moves to function y	/ou want.	Exit to No.1
3. BRIGHTNESS	Moves to No.2	Decreases the brightness	Increases the brightness	Exit to No.1
4. CONTRAST	Moves to No.2	Decreases the contrast	Increases the contrast	Exit to No.1
5. H/V-POSITION	Toggles horizontal or vertical position	Moves the image down or left in the selected function.	Moves the image up or right in the selected function.	Exit to No.2
6. H/V-SIZE	Toggles horizontal or vertical size	Shinks the image in the selected function.	Expands the image in the selected function.	Exit to No.2
7. GEOMETRY	Odd press :Selects and blinks the function with RED ICON	Controls the amount of the Selected funcion. (Refer to Geometry controls menun detail)		Exit to No.2
<b>□</b>	Even press: :Stops blinking and ready to move function you want.	Moves to function y	ou want.	Exit to No.2

# Controls

OCD MENU	MENUL		1	
OSD MENU	MENU	****	+	(+ <u>l</u> )
8. MOIRE	Odd press :Selects and blinks the function with RED ICON	Contros the amount of function. Please contro In order the image not	d these key	Exit to No.2
TANKA AAAAA WAXAA WAXAA AAAAAAAAAAAAAAAAAAA	Even press: :Stops blinking and ready to move function you want.	Moves to function you went.		Exit to No.2
9. LANGUAGES  - ENOLISH - ENOLISH - FRANCIS - ENOLISH - FRANCIS -	Selects the languages with RED ICON and Exit to No.2	Moves to language yo	u want.	Exit to No.2
10. OSD POSITION  ED GB	Toggles OSD position hortzontality or vertically.	Moves the OSD menu left or down in the selected function.	Moves the OSD menu right or up in the selected function.	Exit to No.2
11. COLOR MODE	Odd press :Blinks the RED ICON -color menu ICON.	Moves to color mode you want and the selected "color mode" will blink.		Exit to No.1
	Even press :Stops blinking and ready to move function you want.	Moves to function you	want.	Exit to No.1
	When the color mode ICON is blinking in user mode, press, then go to color adjust mode No.12.		1000000	•
12. COLOR ADJUST MODE	Odd press :Selects and blinks the function you want.	Controls the amount of you want.	f function	Exit to No.1
RB-Red background raster GB-Green background raster BB-Blue background raster RG-Red level gain GG-Green level gain BG-Blue level gain	Even press :Stops blinking and ready to move function you want.	Moves to the function	you want.	Exit to No.1

### Controls

OSD MENU	MENU		+	✐
13.ZOOM	Odd press :Selects zoom and blinks the zoom ICDN.	Shinks the image horizontally and vertically.	Expands the image horizontally and vertically.	Exit to No.1
	Even press :Stops blinking and ready to move another function.	Moves to the fund	ction you want.	Exit to No.1

- Recall (配): Recall control to the factory setting resets all the controls within the all menu. if you want to return to the factory mode setting, press menu key on Recall ICON.
- Degauss( A- ): Eliminates the build-up of stray magnetic fields which after the correct scan of the electron beams and affect the purity of the screen colors, focus and convergence. When pressed, you screen image will jump and waver a bit as the screen is demagnetized.

**▲**Caution

:Please allow aminimum of 20 minutes to elapse between uses of the Degauss button. Do no hold the button down continuously to avoid decreasing the life the Deguass circuitry.

#### ※ Geometry Controls Menu



The Geometry controls allow you to adjust the curvature or angle of the sides of you display.

- Pincushion
- :Increases or decreases the curvature of the sides either inward or outward.
- Parafielogram . :Increases or decreases the tilt of the sides either to the left or right.
- Trapezold
- :Increases or decreases the bottom of the screen to be the same as the top.
- Pin Balance
- :Increases or decreases the curvature of the sides either to the left or right.
- Rotation
- :Increases or decreases the tilt of the screen image relative to a horizontal line.

## Troubleshooting

#### No picture

- Check that the AC cord is correctly connected.
- Check that the AC socket is live by plugging in another piece of equipment.
- Power switch and computer power switch should be in position.
- # Ensure that the signal cable is properly connected to the video card or PC.
- Ensure that the video card is securely seated in the PC.
- Check the connector for bent or pushed-in pins.
- Press a key on the keyboard or move the mouse, in case the screen power-saver mode has banked the screen.

#### Image is scrolling or unstable

- Signal cable should be securely attached to the computer.
- Check the pin assignments and signal timings of the monitor and your video card with respect to recommended timings and pin assignments.
- Ensure that the video card is securely seated in the PC.

### **E** Picture is fuzzy

- Adjust the Contrast and Brightness Controls.
- Push the Degauss Button once.

A Caution :A minimum interval of 20 minutes should exist before the Degauss Button is used a second time. Do not hold the button down continuously.

#### Picture bounces or a waving pattern is present in the picture

- Move electrical devices that may be causing electrical interference away from the monitor.
- See the inside front cover of this manual for FCC information.
- Unshieded audio speakers placed next to the monitor can cause picture distortion. Move the speakers away.

#### Edges of the display image are not square

■ Adjust the distortion using the Side Pincushion or Trapezoid Pincushion Balance, Parallel adjustment controls under the on screen menu.

#### Display image is not centered, too small, or too large

■ Adjust the horizontal and vertical image sizes using the Horizontal and Vertical Size adjustment controls under the on screen menu.

# Specifications

## **Electrical Specifications**

iT	EM	SPEC.
CRT	Туре	17",90° deflection FST
		2496
CRT	Surface	Anti-reflection
Input		Processes Ticopsticenegative
Signal	Video	RG8 Analog(0.7Vp-p), positive 75 Ω Terminated
Scanning frequency	Vertical	50Hz~160Hz(Automatically)
	ock(Max.)	1200.000 02 <del>41.00000000000000</del> 110MHz
Power Consumption(Max.)		rterternis a tomor efectival account. 74 Watts
luput Co	onnector	D-Sub, 15Pin Connectors
		SAN THIERD

# Mechanical Specifications

ITEM		SPEC.
	Unit	15.6" (W)×16.4" (D)×14.4/14.9/16.1(H) 397mm(W)×417mm(D)×366/378/410.2mm(H)
Dimension	Certor	FT.BE EVEN IN SECURITION OF THE SECURITIES OF THE SECURITION OF TH
\\/oight	Net	32.1lbs(14.6Kg)
Weight		95.94.643.6

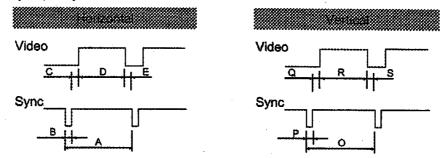
# **Environmental Specifications**

ITEM		SPEC.
T	Operating	32°F to 104°F(0°C to 40°C)
Temperature		47 16 1407 1207 1307
Humidity		10% to 85% R.H. Non-condensing

# Troubleshooting

# Preset Timings

This Monitor 1772E has preset modes for the 8 most popular industry standards for "Plug and Play" capability.



Resolution	18	M	VE	SA
	VGA/70Hz	VGA/60Hz	640/75Hz	640/85Hz
Timing	720×400	640×480	640×480	640×480
		27.46.2	67.5	45.265
A µ sec	31.777	31.777	26,667	23.111
B µ sec	3.813	3.813	2.032	1.556
C µ sec	1,907	1.907	3.81	2.222
D u sec	25.422	25,422	20.317	17.778
Eμsec	0.636	0.636	0.508	1.556
				85.008
Omsec	14.268	16.684	13.333	11.764
Pmsec	0.064	0.064	0.08	0.069
Qmsec	1.08	1.048	0.427	0.578
Rmsec	12.711	15,253	12.8	11.093
Smsec	0.413	0.318	0.027	0.023
Professional Contract	20.329	22.004		
H-Polarity	Negative	Negative	Negative	Negative
V-Polarity	Positive	Negative	Negative	Negative

Resolution	VESA				
<u> </u>	800/75Hz	800/85Hz	1024/75Hz	1024/85Hz	
Timing	800×600	800×600	1024×768	1024×768 -	
er care a	46,675	53,674	80.023	28,877	
Aμsec	21.333	18.631	16.660	14.561	
Busec	1,616	1.138	1.219	1.016	
Сивес	3.232	2.702	2.235	2.201	
D µ sec	16.162	14.222	13.003	10.836	
E µ sec	0.323	0.569	0.203	0.508	
V Fracting					
Omsec	13.333	11.756	13.328	11.765	
Prisec	0.064	0.056	0.050	0.044	
Qmsec	0.448	0.503	0.466	0.524	
Rmsec	12.8	11.179	12.795	11.183	
Smsec	0.021	0.019	0.017	0.015	
(					
H-Polarity	Positive	Positive	Positive	Positive	
V-Polarity	Positive	Positive	Positive	Positive	

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# **DECLARATION OF CONFORMITY**

PRODUCT NAME:17" COLOR MONITOR

MODEL NUMBER:1772ED

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B

OPERATING ENVIRONMENT FOR HOME OR OFFICE USE

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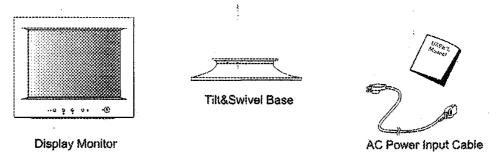
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Stand by	Green	< 60 Watts	2Sec
112,000	COMPANY STORY		
off	Green/Blink	< 3 Watts	15Sec

The monitor goes into various power saving stages depending on the incoming video signal as shown in the follwing table

State	Horizontal Sync	Vertical Sync
200		
Stand by	Off	On
suspend		
off	off	off

#### Note

The monitor automatically goes through the DPMS steps when it is idle.

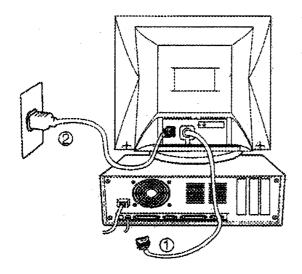
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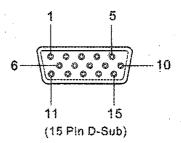
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## Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment
	160 M (80
2	Green Video
	Eitze Vikteo
4	Frame Ground
	German
6	Red Video Ground
	Seen diterrities
8	Blue Video Ground
	84.
10	Sync. Ground
	Gregord
12	SDA
	H-Syric.
14	V-Sync.

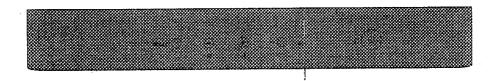
The 15-pin D-Sub connector (male) of the signal cable (IBM Systems):



## Controls

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    - +: Direct access to Contrast controls.
  - 2) When Main menu is displayed.: Moves to function what you want to adjust.
  - 3) When the Sub menu is displayed.: Controls the amount what you want to adjust.
- MENU: Displays OSD main Menu.
  - 1) When Main menu is displayed.: Selects function with RED ICON.
  - 2) When Sub menu is displayed.: Seects function with RED ICON.

### Additional front controls

- Power Switch: Turns the monitor power on or off. When the power is on, the LED is on.
- LED Power indicator Light: Located left side of the power switch and indicates the monitor's power mode. Each mode reduces the amount of power used by the monitor.

Accessing on screen menu

Press MENU Button.

Turning off on screen menu

When in the main menu, press 

→ button.

When in submenus, press the 

→ button twice.

# Controls

# OSD Menu

OSD MENU	MENU		+ .	Ð
1. NO OSD	Proceeds to NO.2	Proceeds to NO.3	Proceeds to NO.4	No meaning
2. MAIN MENU DETES DEA 配図	The function with RED ICON is -Performed: Recall, Degauss -Selected and blinked :Color Adjust, Zoom -Proceeded: Others	Moves to function y	vou Want.	Exit to No.1
3. BRIGHTNESS	Moves to No.2	Decreases the brightness	Increases the brightness	Exit to No.1
4. CONTRAST  () CONTRASY	Moves to No.2	Decreases the contrast	Increases the contrast	Exit to No.1
5. H/V-POSITION	Toggles horizontal or vertical position	Moves the image down or left in the selected function.	Moves the image up or right in the selected function.	Exit to No.2
6. H/V-SIZE	Toggles horizontal or vertical size	Shinks the image in the selected function.	Expands the image in the selected function.	Exit to No.2
7. GEOMETRY	Odd press :Selects and blinks the function with RED ICON	Controls the amoun Selected funcion. (F controls menun deta	Refer to Geometry	Exit to No.2
Even press Stops blinking and ready to move function you want.		Moves to function y	ou want.	Exit to No.2
	:Stops blinking and ready to move function	Moves to function y	ou want.	

# Controls

OSD MENU	MENU	-	+	<b>4</b>
8. MOIRE	Odd press Selects and blinks the function with RED ICON	Contros the amount of function. Please control in order the image not	ol these key	Exit to No.2
	Even press :Stops blinking and ready to move function you want.	Moves to function you	want.	Exit to No.2
9. LANGUAGES  • ENGLISH • GEOTOCK • FANCAIS • COPARCIS	Selects the languages with RED ICON and Exit to No.2	Moves to language yo	u want.	Exit to No.2
10. OSD POSITION  ED  ED  ED  ED  ED  ED  ED  ED  ED  E	Toggies OSD position horizontally or vertically.	Moves the OSD menu left or down in the selected function.	Moves the OSD menu right or up in the selected function.	Exit to No.2
11. COLOR MODE	Odd press :Blinks the RED ICON -color menu ICON.	Moves to color mode and the selected "color will blink	you want r mode"	Exit to No.1
	Even press :Stops blinking and ready to move function you want.	Moves to function you	want.	Exit to No.1
	When the color mode ICON is blinking in user mode, press, then go to color adjust mode No.12.	Marientale		
12. COLOR ADJUST MODE  888 GB BB RG GG BG USER 50	Odd press :Selects and bilinks the function you want.	Controls the amount o you want.	f function	Exit to No.1
RB-Red background raster GB-Green background raster SB-Blue background raster RG-Red level gain GG-Green level gain BG-Blue level gain	Even press :Stops blinking and ready to move function you want.	Moves to the function	you want.	Exit to No.1

## Controls

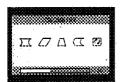
OSD MENU	MENU		+	4
13.ZOOM	Odd press :Selects zoom and blinks the zoom ICDN.	Shinks the image horizontally and vertically.	Expands the image horizontally and vertically.	Exit to No.1
C T T T T T T T T T T T T T T T T T T T	Even press :Stops blinking and ready to move another function.	Moves to the fur	nction you want.	Exit to No.1

- Recall( 图 ) : Recall control to the factory setting resets all the controls within the all menu. if you want to return to the factory mode setting, press menu key on Recall ICON.
- Degauss( ft. ): Eliminates the buid-up of stray magnetic fieds which after the correct scan of the electron beams and affect the purity of the screen colors, focus and convergence. When pressed, you screen image will jump and waver a bit as the screen is demagnetized.

**▲**Caution

:Please allow aminimum of 20 minutes to elapse between uses of the Degauss button. Do no hold the button down continuously to avoid decreasing the life the Deguass circuitry.

#### **X Geometry Controls Menu**



■ Trapezoid

The Geometry controls allow you to adjust the curvature or angle of the sides of you display.

- Pincushion :Increases or decreases the curvature of the sides either inward or outward.
- Perallelogram : Increases or decreases the tilt of the sides either to the left or right.
- :increases or decreases the bottom of the screen to be the same as the top.
- Increases or decreases the curvature of the sides either to the left or right.
- Pin Balance
- :Increases or decreases the tilt of the screen image relative to a horizontal line. Rotation

# Troubleshooting

## No picture

- Check that the AC cord is correctly connected.
- Check that the AC socket is live by plugging in another piece of equipment.
- Power switch and computer power switch should be in position.
- Ensure that the signal cable is properly connected to the video card or PC.
- Ensure that the video card is securely seated in the PC.
- Check the connector for bent or pushed-in pins.
- Press a key on the keyboard or move the mouse, in case the screen power-saver mode has banked the screen.

## mage is scrolling or unstable

- Signal cable should be securely attached to the computer.
- Check the pin assignments and signal timings of the monitor and your video card with respect to recommended timings and pin assignments.
- Ensure that the video card is securely seated in the PC.

## Picture is fuzzy

- Adjust the Contrast and Brightness Controls.
- Push the Degauss Button once.

Caution: A minimum interval of 20 minutes should exist before the Degauss Button is used a second time. Do not hold the button down continuously.

## Picture bounces or a waving pattern is present in the picture

- Move electrical devices that may be causing electrical interference away from the monitor.
- See the inside front cover of this manual for FCC information.
- Unshieded audio speakers placed next to the monitor can cause picture distortion. Move the speakers away.

## Edges of the display image are not square

Adjust the distortion using the Side Pincushion or Trapezoid Pincushion Balance, Parallel adjustment controls under the on screen menu.

### Display image is not centered, too small, or too large

Adjust the horizontal and vertical image sizes using the Horizontal and Vertical Size adjustment controls under the on screen menu.

# **Specifications**

# **■** Electrical Specifications

įT.	EM	SPEC.
CRT Type		17",90° deflection FAT
CFT Horz	rotal Controller	CONFORMED.
CRT S	Surface	Anti-reflection
Input	Syric	HAV COSPORTS TO programme HAV COSPORTS TO Department of the programme of t
Signal	Video	RGB Analog(0.7Vp-p), positive
	V ICCO	75Ω Terminated
Scanning	1102110	JUNEAU GENERAL SALES SAL
frequency	Vertical	50Hz~160Hz(Automatically)
Navi e		2000 ta 2 1024 Lines Nonvisterrace)
Pixel Clock(Max.)		110MHz
Osma Si		Horsental Situana Vertical 235mm
Power Consumption(Max.)		74 Watts
V-10 (100)		AC 800-240 FOR TO 90-12 2-12
luput Connector		D-Sub, 15Pin Connectors
		uninger

# Mechanical Specifications

IT	EM	SPEC.
	Unit	15.6" (W)×16.4" (D)×14.9/16.1(H) 397mm(W)×413mm(D)×378/410mm(H)
Dimension	carrer	Committee Commit
10ta (mb)	Net	34,8lbs(15.8Kg)
Weight	1000	38 Fiber 57, 234g

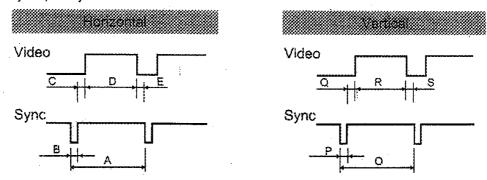
# **■** Environmental Specifications

ITE	M	SPEC.
Tomporativo	Operating	32°F to 104°F(0°C to 40°C)
Temperature	200000	47F to 1407Fr g01C/46 (x C)
Humidity		10% to 85% R.H. Non-condensing

# Troubleshooting

# Preset Timings

This Monitor 1772ED has preset modes for the 8 most popular industry standards for "Plug and Play" capability.



Resolution	l8	M	VES	SA
[	VGA/70Hz	VGA/60Hz	640/75Hz	640/85Hz
Timing	720×400	640×480	640×480	640×480
H-Fred KHID	31.469	31.469	27.5	43.269
Au sec	31.777	31.777	26.667	23,111
В и зес	3.813	3,813	2.032	1.556
C µ sec	1.907	1.907	3.81	2.222
Dµ sec	25.422	25.422	20.317	17.778
E u seç	0.636	0.636	0.508	ി.5 <del>5</del> 6
C Front Ho	70.00	27.94	75	
Omsec	14.268	16.684	13.333	11.764
Prisec	0.064	0.064	0.08	0.069
Qmsec	1.08	1.048	0.427	0.578
Rmsec	12.711	15.253	12.8	11.093
Smsec	0.413	0.318	0.027	0.023
Pixi rate(IMHZ)	28.722	28.7%	7.1.574	
H-Polarity	Negative	Negative	Negative	Negative
V-Polarity	Positive	Negative	Negative	Negative

Resolution		٧E	SA ·	
	800/75 -lz	800/85Hz	1024/75Hz	1024/85Hz
Timing	800×600	800×600	1024×768	1024×768
H-Frequence	46.675	10.74	50.000	40.677
Аизес	21.333	18.631	16.660	14.561
B µ sec	1.616	1.138	1.219	1.016
C µ sec	3.232	2.702	2.235	2.201
Dusec	16.162	14.222	13.003	10.836
E µ sec	0.323	0.569	0.203	0.508
a-Frequency	75	65.66	5623	14.00
Отповес	13.333	11.756	13.328	11.765
Pmsec	0.064	0.056	0.050	0.044
Qmsec	0.448	0.503	0.466	0.524
Rmsec	12.8	11.179	12.795	11.183
Smsec	0.021	0.019	0.017	0.015
Pio resentation		20.25	78.755	<b>4</b> 5
H-Polarity	Positive	Positive	Positive	Positive
V-Polarity	Positive	Positive	Positive	. Positiv <del>e</del>