

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 generate, use, and 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 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.

- 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.

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:

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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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 Notice

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 Règlement sur le matériel brouilleur du Canada.

Notice

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Introduction

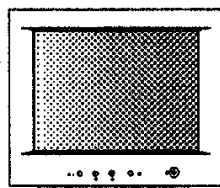
■ Package

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.

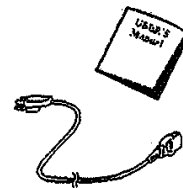
If any items are missing or damaged, please contact your local dealer or supplier.



Display Monitor



Tilt & Swivel Base



AC Power Input Cable

■ 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. Before 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 convenience outlet is equal to or exceeds the monitor current rating.
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- 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 technician should open the monitor's case.
- Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp, lint-free cloth for cleaning.
- Install the monitor near an outlet that you can reach easily. Disconnect the product by grasping the plug firmly and pulling it from the outlet.
Never disconnect it by pulling the cord.

Introduction

■ 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 beams 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-interlaced 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 frequency of 50 to 160 Hz.
- Eight timings are factory preset for image size and position
- 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 built 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 minimizes 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
On	Green	Normal (70 Watts)	N/A
Stand by	Green	< 60 Watts	2Sec
Suspend	Green/Blink	< 3 Watts	15Sec
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
On	On	On
Stand by	Off	On
Suspend	On	Off
off	off	off

Note

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

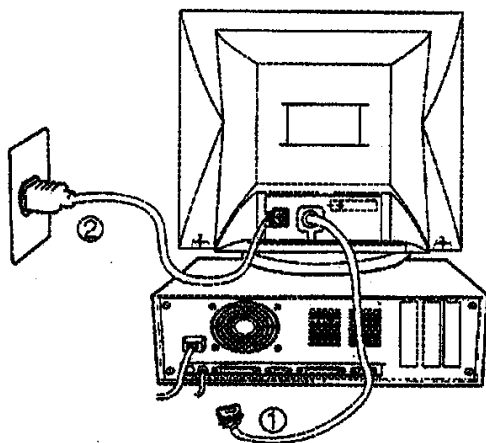
To release the monitor from the DPMS condition, press any key on the keyboard or mouse.

Installation

■ Connection to your computer

⚠ 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.

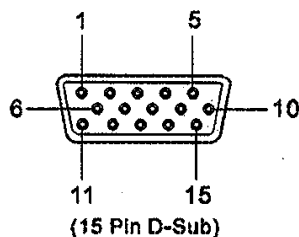
1. Insert the AC power cord ② into monitor and then into an AC power outlet.
2. Connect the signal cable ① to the 15pin graphics connector of the system and tighten the fastening screws.
3. To turn on the monitor, push the power switch.

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

■ Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment
1	Red Video
2	Green Video
3	Blue Video
4	Frame Ground
5	Ground
6	Red Video Ground
7	Green Video Ground
8	Blue Video Ground
9	NC
10	Sync. Ground
11	Ground
12	SDA
13	HSync
14	V-Sync.
15	SCL

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.: Selects 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

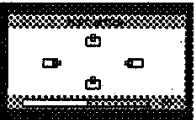
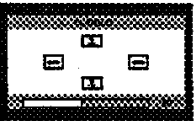
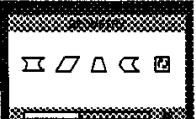
Press MENU Button.

Turning off on screen menu

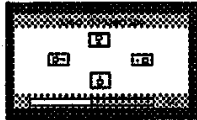
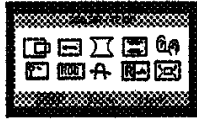
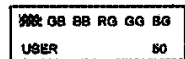
- When in the main menu, press  button.
- When in submenus, press the  button twice.

Controls

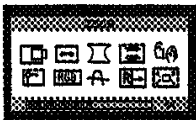
OSD Menu

OSD MENU	MENU	—	+	
1. NO OSD	Proceeds to NO.2	Proceeds to NO.3	Proceeds to NO.4	No meaning
2. MAIN MENU 	The function with RED ICON is -Performed: Recall, Degauss -Selected and blinked :Color Adjust, Zoom -Proceeded: Others	Moves to function you 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 function. (Refer to Geometry controls menu detail)		Exit to No.2
	Even press :Stops blinking and ready to move function you want.	Moves to function you want.		Exit to No.2

Controls

OSD MENU	MENU	—	+	↩
8. MOIRE 	Odd press :Selects and blinks the function with RED ICON	Controls the amount of the selected function. Please control these key in order the image not to shiver.		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 	Selects the languages with RED ICON and Exit to No.2	Moves to language you want.		Exit to No.2
10. OSD POSITION 	Toggles 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 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.	—	—	—
12. COLOR ADJUST MODE  RB-Red background raster GB-Green background raster BB-Blue background raster RG-Red level gain GG-Green level gain BG-Blue level gain	Odd press :Selects and blinks the function you want.	Controls the amount of function you want.		Exit to No.1
	Even press :Stops blinking and ready to move function you want.	Moves to the function you want.		Exit to No.1

Controls

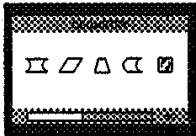
OSD MENU	MENU	-	+	
13.ZOOM 	Odd press :Selects zoom and blinks the zoom ICDN.	Shrinks the image horizontally and vertically.	Expands the image horizontally and vertically.	Exit to No.1
	Even press :Stops blinking and ready to move another function.	Moves to the function you want.		Exit to No.1

■ **Recall()** : 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()** : Eliminates the build-up of stray magnetic fields which alter 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 a minimum of 20 minutes to elapse between uses of the Degauss button. Do not hold the button down continuously to avoid decreasing the life the Degauss 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.

■ **Parallelogram** :Increases or decreases the tilt of the sides either to the left or right.

■ **Trapezoid** :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.

■ 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.
- Unshielded 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

ITEM		SPEC.
CRT Type		17",90° deflection FST
CRT Horizontal Disp. pitch		0.24mm
CRT Surface		Anti-reflection
Input Signal	Sync.	H/V Separals TTL positive/negative H/V Composite TTL positive/negative
	Video	RGB Analog(0.7Vp-p), positive 75Ω Terminated
Scanning frequency	Horizontal	30kHz~21kHz(Automatically)
	Vertical	50Hz~160Hz(Automatically)
Maximum Resolution		1280Data × 1024Lines(Non-Interlace)
Pixel Clock(Max.)		110MHz
Display Size(standard)		Horizontal 310mm, Vertical 230mm
Power Consumption(Max.)		74 Watts
Power Supply		AC 100~240V/50~60Hz ±3Hz
Input Connector		D-Sub, 15Pin Connectors
Display Colors		Unlimited

Mechanical Specifications

ITEM		SPEC.
Dimension	Unit	15.6" (W)×16.4" (D)×14.4/14.9/16.1(H) 397mm(W)×417mm(D)×366/378/410.2mm(H)
	Carton	17.8" (W)×18.9" (D)×17.3" (H) 453mm(W)×478mm(D)×440mm(H)
Weight	Net	32.1lbs(14.6Kg)
	Gross	35.2lbs(16.0Kg)

Environmental Specifications

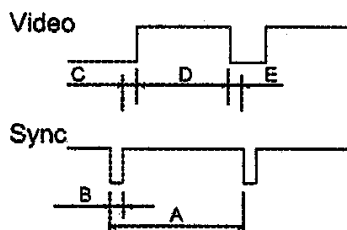
ITEM		SPEC.
Temperature	Operating	32°F to 104°F(0°C to 40°C)
	Storage	-4°F to 140°F(-20°C to 60°C)
Humidity		10% to 85% R.H. Non-condensing

Troubleshooting

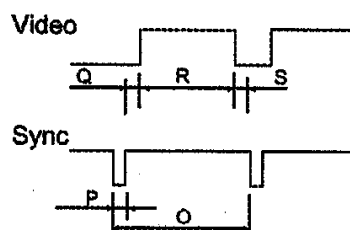
■ Preset Timings

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

Horizontal



Vertical



Resolution Timing	IBM		VESA	
	VGA/70Hz 720×400	VGA/60Hz 640×480	640/75Hz 640×480	640/85Hz 640×480
H-Freq (kHz)	31.468	31.468	31.5	31.568
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 μ sec	25.422	25.422	20.317	17.778
E μ sec	0.636	0.636	0.508	1.556
V-Freq (Hz)	70.08	60.04	75	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
Pixel rate (MHz)	29.342	25.178	31.500	36
H-Polarity	Negative	Negative	Negative	Negative
V-Polarity	Positive	Negative	Negative	Negative

Resolution Timing	VESA			
	800/75Hz 800×600	800/85Hz 800×600	1024/75Hz 1024×768	1024/85Hz 1024×768
H-Freq (kHz)	31.468	31.468	31.5	31.568
A μ sec	21.333	18.631	16.660	14.581
B μ sec	1.616	1.138	1.219	1.016
C μ sec	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-Freq (Hz)	75	85.061	75.020	85.008
Omsec	13.333	11.756	13.328	11.765
Pmsec	0.064	0.056	0.050	0.044
Qmsec	0.448	0.503	0.466	0.624
Rmsec	12.8	11.179	12.795	11.183
Smsec	0.021	0.019	0.017	0.015
Pixel rate (MHz)	31.5	36.25	31.500	36.3
H-Polarity	Positive	Positive	Positive	Positive
V-Polarity	Positive	Positive	Positive	Positive

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PRODUCT NAME: 17" COLOR MONITOR

MODEL NUMBER: 1772ED

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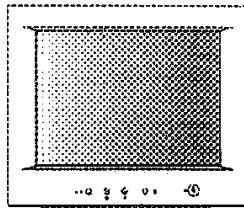
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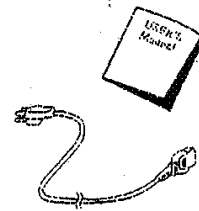
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AC Power Input Cable

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Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of the monitor.
Only a qualified technician should open the monitor's case.
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- Tilt base allowing 90° rotation in the horizontal and 17° in the vertical for greater user comfort.
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- Monitor is compatible with VGA, SVGA XGA and high resolution video modes up to 1280(H)X 1024(V)60Hz
- Monitor may be used with IBM or compatible PC, Mac.
- Automatic universal power supply is built 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 minimizes 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
On	Green	Normal (0 Watts)	30A
Stand by	Green	< 60 Watts	2Sec
Suspend	Green/Blink	< 3 Watts	15Sec
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
On	On	On
Stand by	Off	On
Suspend	On	Off
off	off	off

Note

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

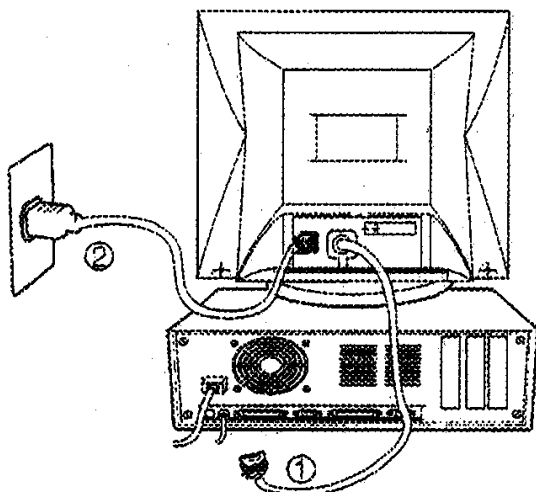
To release the monitor from the DPMS condition, press any key on the keyboard or mouse.

Installation

■ Connection to your computer

⚠ 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.

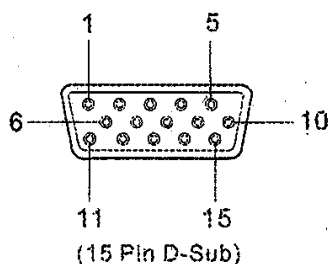
1. Insert the AC power cord ② into monitor and then into an AC power outlet.
2. Connect the signal cable ① to the 15pin graphics connector of the system and tighten the fastening screws.
3. To turn on the monitor, push the power switch.

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

■ Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment
1	Red Video
2	Green Video
3	Blue Video
4	Frame Ground
5	Ground
6	Red Video Ground
7	Green Video Ground
8	Blue Video Ground
9	N.C.
10	Sync. Ground
11	Ground
12	SDA
13	H-Sync
14	V-Sync.
15	SDL

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.: Selects 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

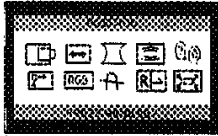
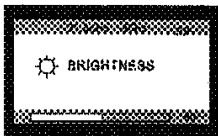
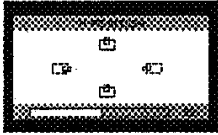
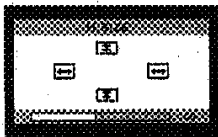
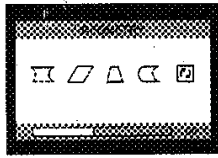
Press MENU Button.

Turning off on screen menu

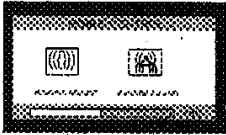
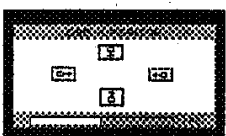
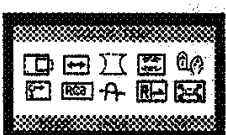
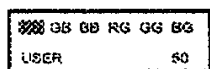
- When in the main menu, press  button.
- When in submenus, press the  button twice.

Controls

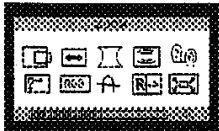
■ OSD Menu

OSD MENU	MENU	—	+	↩
1. NO OSD	Proceeds to NO.2	Proceeds to NO.3	Proceeds to NO.4	No meaning
2. MAIN MENU 	The function with RED ICON is -Performed: Recall, Degauss -Selected and blinked :Color Adjust, Zoom -Proceeded: Others	Moves to function you 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 function. (Refer to Geometry controls menun detail)		Exit to No.2
	Even press :Stops blinking and ready to move function you want.	Moves to function you want.		Exit to No.2

Controls

OSD MENU	MENU	—	+	↩
8. MOIRE 	Odd press :Selects and blinks the function with RED ICON	Controls the amount of the selected function. Please control these key in order the image not to shiver.		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 	Selects the languages with RED ICON and Exit to No.2	Moves to language you want.		Exit to No.2
10. OSD POSITION 	Toggles 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 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.	—	—	—
12. COLOR ADJUST MODE  RB-Red background raster GB-Green background raster BB-Blue background raster RG-Red level gain GG-Green level gain BG-Blue level gain	Odd press :Selects and blinks the function you want.	Controls the amount of function you want.		Exit to No.1
	Even press :Stops blinking and ready to move function you want.	Moves to the function you want.		Exit to No.1

Controls

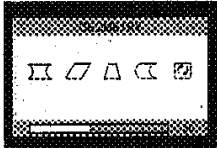
OSD MENU	MENU	—	+	
13.ZOOM 	Odd press :Selects zoom and blinks the zoom ICON.	Shrinks the image horizontally and vertically.	Expands the image horizontally and vertically.	Exit to No.1
	Even press :Stops blinking and ready to move another function.	Moves to the function you want.		Exit to No.1

■ Recall() : 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() : Eliminates the build-up of stray magnetic fields which alter 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 a minimum of 20 minutes to elapse between uses of the Degauss button. Do not hold the button down continuously to avoid decreasing the life of the Degauss circuitry.

※ Geometry Controls Menu



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

■ Pincushion :Increases or decreases the curvature of the sides either inward or outward.

■ Parallelogram :Increases or decreases the tilt of the sides either to the left or right.

■ Trapezoid :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.

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.
- Unshielded 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

ITEM		SPEC.
CRT Type		17", 90° deflection FAT
CRT Horizontal Dot pitch		0.25mm
CRT Surface		Anti-reflection
Input Signal	Sync	H/V Separate TTL, positive/negative H/V Composite TTL, positive/negative
	Video	RGB Analog(0.7Vp-p), positive 75Ω Terminated
Scanning frequency	Horizontal	30kHz~78kHz(Automatically)
	Vertical	50Hz~160Hz(Automatically)
Maximum Resolution		1280Dots X 1024 Lines(non-interlace)
Pixel Clock(Max.)		110MHz
Display Size(standard)		Horizontal 316mm, Vertical 236mm
Power Consumption(Max.)		74 Watts
Power Supply		AC 100~240 volt, 50/50Hz ± 2Hz
Input Connector		D-Sub, 15Pin Connectors
Display Colors		Unlimited

Mechanical Specifications

ITEM		SPEC.
Dimension	Unit	15.6" (W) X 16.4" (D) X 14.9/16.1(H) 397mm(W) X 413mm(D) X 378/410mm(H)
	Carton	12.1" (W) X 29.3" (D) X 16.1" (H) 460mm(W) X 515mm(D) X 460mm(H)
Weight	Net	34.8lbs(15.8Kg)
	Gross	38.1lbs(17.3Kg)

▷ It is different according to option.

Environmental Specifications

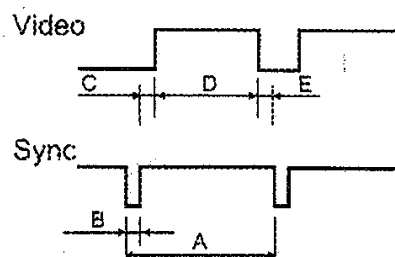
ITEM		SPEC.
Temperature	Operating	32°F to 104°F(0°C to 40°C)
	Storage	-4°F to 147°F(-20°C to 60°C)
Humidity		10% to 85% R.H. Non-condensing

Troubleshooting

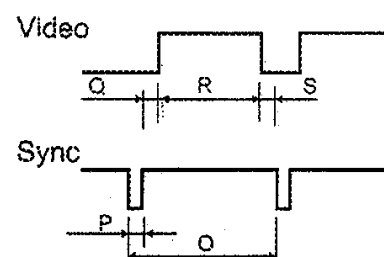
■ Preset Timings

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

Horizontal



Vertical



Resolution Timing	IBM		VESA	
	VGA/70Hz	VGA/60Hz	640/75Hz	640/85Hz
	720X400	640X480	640X480	640X480
H-Freq(KHz)	31.466	31.466	37.5	43.269
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 μ sec	25.422	25.422	20.317	17.778
E μ sec	0.636	0.636	0.508	1.556
V-Freq(Hz)	70.00	60.00	75	85.000
Omsec	14.268	16.664	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
Pix rate(MHz)	25.322	28.175	31.500	36.857
H-Polarity	Negative	Negative	Negative	Negative
V-Polarity	Positive	Negative	Negative	Negative

Resolution Timing	VESA			
	800/75Hz	800/85Hz	1024/75Hz	1024/85Hz
	800X600	800X600	1024X768	1024X768
H-Freq(KHz)	48.375	52.073	60.003	63.577
A μ sec	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
D μ sec	16.162	14.222	13.003	10.836
E μ sec	0.323	0.569	0.203	0.508
V-Freq(Hz)	75	85.000	75.029	84.967
Omsec	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
Pix rate(MHz)	31.5	35.35	39.750	44.5
H-Polarity	Positive	Positive	Positive	Positive
V-Polarity	Positive	Positive	Positive	Positive