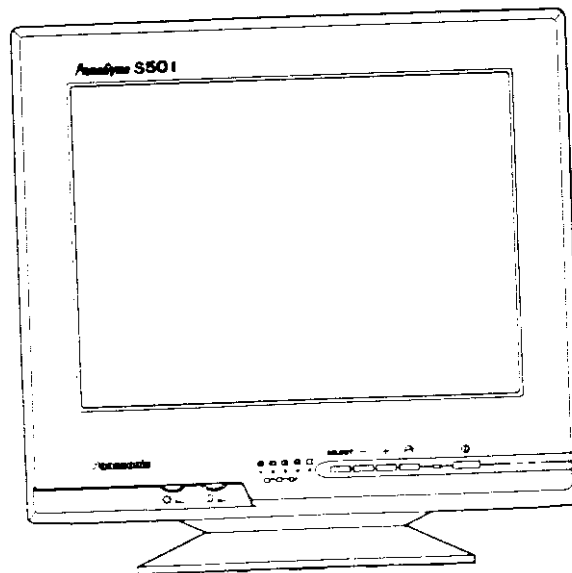


# Operating Instructions

Digital Multi-Scan Color Display

MODEL TX-T5F73



As an ENERGY STAR<sup>®</sup> partner,  
Matsushita Electric (Taiwan) Co., Ltd.  
has determined that this product  
meets the ENERGY STAR<sup>®</sup> guide-  
lines for energy efficiency.

## Panasonic

Read these instructions completely before operating this display monitor

## IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord for this unit has been packed separately and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set.

The female receptacle of the cord set must meet CEE-22 requirements and will look like Figure 1:

## WICHTIGE INFORMATION BEZÜGLICH DES ZU BENUTZENDEN NETZKABELS

Das Netzkabel für diese Geräteeinheit wird separat verpackt geliefert und entspricht jeweils den landesspezifischen Anforderungen. Aus Gründen der Unfallverhütung ist die Benutzung dieses Netzkabels zwingend. Beachten Sie bitte folgende Hinweise, wenn ein Austausch des Originalkabels erforderlich ist. Der geräteseitige Stecker des Netzkabels muss den CEE-Anforderungen sowie dem in Abb. 1 gezeigten Beispiel entsprechen.

## AVISO IMPORTANTE RESPECTO A LA SELECCION DEL CABLE DE SUMINISTRO ELECTRICO

El cable de suministro eléctrico de esta unidad ha sido empacado en forma separada, ha sido seleccionado de acuerdo al país de destino y debe ser usado para prevenir sobrecargas eléctricas. Use las guías descritas a continuación, si es necesario reemplazar el cable original. El receptáculo hembra del cable debe cumplir los requerimientos CEE-22 y se verá como aparece en la Figura 1.

## NOTICE IMPORTANTE CONCERNANT LE CHOIX DU CORDON D'ALIMENTATION

Le cordon d'alimentation conçu pour cette unité a été conditionné dans un emballage distinct et il a été choisi en fonction du pays de destination. Son utilisation vise à vous prévenir de toute décharge électrique. Si vous devez remplacer le cordon initial, veuillez suivre les informations ci-dessous mentionnées. Le receptacle femelle du cordon doit satisfaire aux normes CEE-22 et comporter les caractéristiques présentées au schéma 1.

### For the United States and Canada

In the United States and Canada the male plug is a NEMA 5-15 style (Figure 2) and is UL Listed and CSA Labelled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult Table A for the selection criteria for power cords used in the United States and Canada.

### U.S.A. und Kanada:

In den U.S.A. und Kanada verfügt das Kabel netzseitig über einen Stecker des Typs NEMA 5-15 (Abb. 2), der den UL-Sicherheitsbestimmungen entspricht und die Markierung CSA trägt. Für Geräte, die auf einer Arbeitsfläche wie Tisch oder Schreibtisch installiert sind, können Netzkabel des Typs SVT oder SJT benutzt werden. Die Auswahl des Netzkabels muss gemäß dem für das Gerät zutreffenden Stromaufnahme-Nennwert erfolgen. Tabelle A enthält eine Aufstellung der Kriterien, die bei der Wahl des Netzkabels in den U.S.A. und Kanada zu berücksichtigen sind.

### Para Los Estados Unidos Y Canada

En los Estados Unidos y en Canadá el conector macho es estilo NEMA 5-15 (Figura 2), está listado UL y etiquetado CSA. Para las unidades que están montadas sobre un escritorio o sobre una mesa, debe usarse el cable tipo SVT o SJT. Para unidades que están sobre el piso, sólo se debe usar el cable tipo SJT. El cable debe ser seleccionado de acuerdo al tipo de voltaje de su unidad. Consulte en la Tabla A los criterios de selección de los cables de suministro eléctrico usados en los Estados Unidos y en Canadá.

### Etats-Unis et Canada

Aux Etats-Unis ainsi qu'au Canada, la prise mâle est de type NEMA 5-15 (schéma 2); elle est mentionnée dans la liste UL et porte la mention CSA. En ce qui concerne les unités qui sont placées sur une table ou sur un bureau, il est possible d'utiliser des cordons de type SVT ou SJT. Quant aux unités qui sont placées à même le sol, seule des cordons de type SJT peuvent être utilisés. Le choix du cordon doit s'effectuer en fonction de l'ampérage de votre unité. Veuillez consulter le tableau A suivant les critères de sélection des cordons d'alimentation utilisés aux Etats-Unis et au Canada.

### For European Countries:

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and the mark ◀ HAR ▶ will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning the proper power cord to use, please consult with the dealer from whom you purchased your unit.

## Europa:

In den europäischen Ländern ist das für den Anschluss an das jeweilige Netz erforderliche Kabel zu verwenden. Das Kabel muss den HAR-Anforderungen entsprechen und auf der Aussenisolierung oder auf der Isolierung einer der Kabeladern die Markierung ◀ HAR ▶ aufweisen.

Sollten Sie hinsichtlich der Anwendung des richtigen Kabels irgendwelche Fragen haben, so konsultieren Sie bitte Ihren Händler, von dem Sie Ihr Gerät erworben haben.

## Para Los Países Europeos:

En Europa debe usar el cable apropiado al receptáculo usado en su país. El cable es HAR-Certificado y la marca ◀ HAR ▶ aparecerá en el forro externo o en la cubierta aislante de uno de los conductores internos.

Si tiene dudas acerca del cable apropiado que se debe usar, consulte la tienda donde adquirió su unidad.

## Pays européens:

En Europe, vous devez utiliser des cordons appropriés aux prises de votre pays. Les cordons doivent être de marque ◀ HAR ▶ et celle-ci doit apparaître sur la gaine plastique externe ou sur la partie isolante d'un des conducteurs internes.

Si vous avez des questions concernant le bon cordon à utiliser, vous êtes priés de consulter le concessionnaire chez qui vous avez acheté votre appareil.

Table A Tabelle A Tabla A Tableau A

Cord Type	Size of Conductors In Cord	Maximum Current Rating of Unit
Kabeltyp	Grosse der Kabeladern	Max. Stromaufnahme des Geräts
Tipo de cable	Tamaño de los conductores en el cable	Máximo voltaje de acuerdo a la unidad
Type de cordon	Taille des conducteurs dans le cordon	Ampérage maximum de l'unité
SJT	18AWG	10Amps
SJT	16AWG	12Amps
	14AWG	12Amps
SVT	18AWG	10Amps
	17AWG	12Amps



Figure 1 Abb. 1

Figura 1 Schéma 1

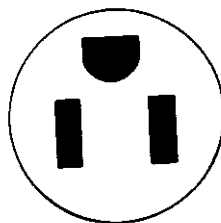


Figure 2 Abb. 2

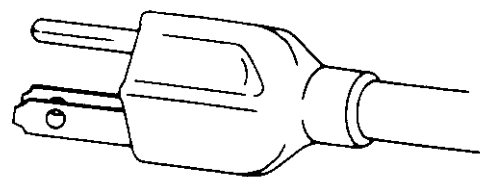


Figura 2

Schéma 2

## Federal Communications Commission Requirements

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 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.

**FCC Warning:**  
 To assure continued FCC compliance and to prevent undesirable interference, the user must use a 3 pin grounded power supply cord and the provided shielded interfacing cable with ferrite core. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate this monitor.

## Customer's Record

The serial number of this product is printed on its back cover label. Note this serial number in the space provided and retain this booklet as a permanent record of your purchase to aid in identification of the unit in the event of theft or loss.

Model number: \_\_\_\_\_  
 Serial number: \_\_\_\_\_

### Table of contents

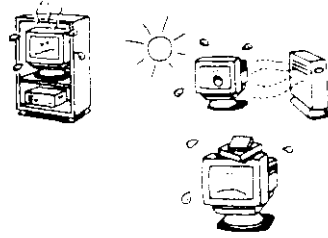
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# Precautions

## Recommended Usage

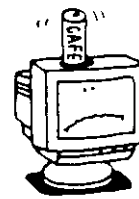
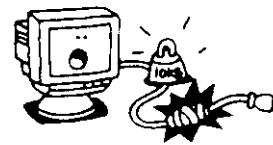
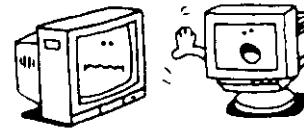
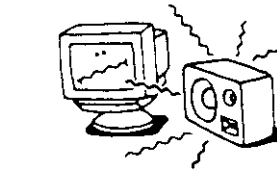
### 1) Place of installation

- Avoid exposing the display unit to direct sunlight, a stove, or other heat source. Heat will adversely affect the cabinet and the parts inside.
- Install the display unit in a well-ventilated place. Keep the display unit away from the wall or other obstructions so that the ventilation holes in the cabinet will not be blocked during use.
- Keep moisture and dust away. Keep the display unit away from the kitchen, bathroom, washing machine, etc. where it will be exposed to water, steam, moisture, or dust, which may cause trouble.



### 2) Precautions

- Keep magnetic objects away. Unshielded speakers and other devices that use magnets, motors, and unshielded transformers that generate strong magnetism must be kept away from the display unit as it may cause color irregularity or image distortion.
- Receiving trouble. If there is a television set or another display unit nearby, keep your display unit as far away from it as possible. Mutual interference can cause image distortion or noise.
- Take good care of the cabinet. A volatile solvent or adhesive matter can cause the cabinet to deteriorate in quality or its paint coat to peel. Long exposure to rubber or vinyl products can also leave stains on the cabinet.
- Keep the display unit free of physical shock when moving. Be sure to unplug the power cable and disconnect the external lines before moving the display unit. Take special care of the cathode ray tube (CRT). Also take good care of the power cable.
- Do not place a heavy object on the power cable. Do not use an extension cord, do not tie the cable in a knot or pull on the cable itself to unplug it. Do not place things on the display unit.
- Do not place a vessel containing water, other liquid, solvent or a cloth wet with a solvent on the display unit, as this may cause an electrical hazard if any of these liquids should accidentally spill inside the unit.



### 3) Care of the Display Unit

- Use a soft dry cloth to clean the outside of the display unit. If the unit is very dirty, wet a cloth with neutral detergent, squeeze it tight to remove excess liquid, wipe the unit with it, and finish by wiping with a dry cloth. Do not use a chemical duster or polisher-cleaner because it can adversely affect the unit and peel the paint coat. Use a soft dry cloth to clean the CRT surface.
- The CRT surface is subject to damage by scratching. Do not rub or strike it with anything hard.



## Features

The Monitor is a 15 inch multi-scanning color CRT display with the following nice features. User are easy to see what state is operated through the indicated LED. Power Saving function which helps saving energy is also one of the highlights of this model.

### 1) Power Saving

Built in Power Saving function based on VESA-DPMS proposal & NUTEK specification. Power energy of the circuit shall be saved by according to the power saving signal from computer.

### 2) LED function

Anyone is able to set up the picture as he wants through the indicated LED function. And the monitor will be also with a flashing LED signal when the fH or fV is operated out of the promised range.

### 3) Self Test function

A bright raster is came out by pushing "SELECT" key in the case that signal cable is not connected to the computer or power saving is out off operation. This function shows monitor is alive or not and can be used for self-aging test.

### 4) Ergonomics design

- Low emission design to meet with MPR-II.
- ESF (Electric static field) free coating on CRT.
- TCO'92 and CE Mark is standard.

### 5) Multi scan with digital technology

8 bits' micro-computer conotrols the circuit's operation to with wide range signal of fH= 30 ~ 67 kHz and fV= 50 ~ 120 Hz.

### 6) 1 Factory's preset mode, 8 user's memory-modes

- 1 standard mode is preset at the factory.
- 7 modes are reserved at the factory.
- 8 user's memory-modes are available to set the users' own timing and information to the display.

### 7) Flat face and fine dot pitch

Flat face CRT with 0.27mm or 0.28 mm fine dot pitch gives the comfortable sight of the screen.

### 8) Superb display performance

- High brightness.
- Minimized distortion by correction circuit.
- Users enjoy full scan image for graphics.

### 9) Plug & Play

VESA DDC1/2B (display data channel) is compatible.


### 10) Other Features

- An ergonomically designed tilt and swivel base will complement virtually any office design.
- The pan angle is 90 degrees to the right and left, and tilt angle is 13 degrees up and 4 degrees down.
- An automatic universal power supply automatically adjusts to the supplied AC power.

### < Safety precaution >

- The equipment should be installed near an easily accessible electrical outlet. Do not use an extension cord.
- The socket-outlet shall be near the equipment and shall be easily accessible.

## Specifications

CRT	Size	15" CRT (13.8"/35.1 cm Viewable image size) Flat square
	Dot pitch	0.27 mm or 0.28 mm
	Phosphor	RGB medium-short persistence
	Surface treatment	Anti-Glare and Anti-Static or Silica Coating
Input signals	Video signaling	RGB analog
	Signal level	0.7 Vp-p (without sync signal), 1.0 Vp-p (with sync signal)
	Sync signaling	H, V Separate (TTL level), H/V Composite (TTL level)
	Horizontal frequency	Allowable frequency range: 30.0 to 67.0 kHz
	Vertical frequency	Allowable frequency range: 50.0 to 120.0 Hz
Video band width		86 MHz (Typical)
Resolution		1024 dots (H) × 768 lines (V) max./60 Hz
Viewable Image Size (H × V)	Factory preset	272 × 204 mm (10.7" × 8.0") (Dependent upon signal timing used)
	Large scan	
Display Color		Analog input, unlimited number of colors
Connectors	Signal	15-pin, mini D-Sub connector
	Power supply	CEE 22 type 3-pin connector
Input power		90 to 264 V AC (50 or 60 Hz)
Power consumption		80 W typical / <15 W Standby/Suspend, <5 W Off mode
Controls		Power SW., Power LED,  -Key (Degauss), "+ " -Key (Up), "- " -Key (Down), "Select", Function LED, Contrast, Brightness, Memory recall, Self-Test Function 'LED' = Horizontal Size, Horizontal Position, Vertical Size, Vertical Position, Vertical pincushion, Trapezoid, Parallelogram, Tilt
Tilt/swivel		13° up, 4° down, 90° each to right and left
Dimensions (W × H × D)		363 × 368 × 396.7 mm (14.3" × 14.5" × 15.6")
Weight (monitor only)		12.3 kg (27.1 lbs)
Approvals		UL, C-UL, FCC-B, DHHS, TUV GS/ERGO, CE, SEMKO, DEMKO, FIMKO, NEMKO, MPR-II, TCO '92, DOC, HWC, PTB
Contents		1 fixed signal cable. 1 detachable AC power supply cord. Operating Instructions
Environmental conditions	Operating	Temperature Humidity Altitude
		0 ~ 35°C (32~95°F) 5 ~ 90% (non-condensation) 10,000 feet
	Storage	Temperature Humidity Altitude
		-20 ~ +60°C (-4~140°F) 5 ~ 90% (non-condensation) 40,000 feet
Windows 95 Plug & Play		VESA DDC1/2B (Meets Windows 95 Plug & Play Requirements)

**Note:** Specifications subject to change without notice.

# Installation

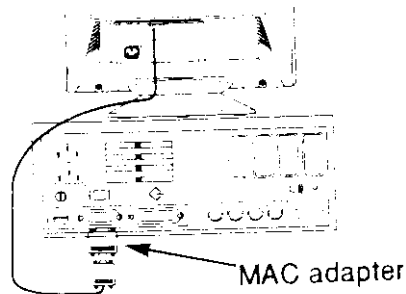
## ■ Connecting Procedures

After following the general installation directions and reviewing the section on control layout and function, you are ready to power-up and operate the monitor.

1. Turn on the monitor by pressing the power button once. The monitor's power indicator will light orange or green.
2. Turn on the PC.
3. After booting (the PC power-up sequence and initialization) the power LED on the monitor should be illuminated green. If not, check the connectors and the trouble-shooting section of this manual.
4. Adjust the brightness and contrast controls. Scroll either the Brightness or Contrast VR., and then change the direction with counter-clockwise or clockwise to increase or decrease the selected level.
5. When done with your work, turn off the monitor by pressing the monitor's power button. The front panel power indicator will darken.

## Apple computer

Use a commercial MAC adapter.  
(not supplied with the monitor)



### Caution:

The cable connectors must be securely fastened with screws to prevent possible disconnection.

## ■ Connection of AC Power Supply

If the AC power voltage is within the range of 90-264 V, it can be used regardless of line frequency (50 Hz or 60Hz). Voltage selection is automatic.

### Precaution:

- In order to use the display unit safely, use a power cable that is properly grounded.
- AC plug cords for the following countries are supplied in the same package.

U.S.A. ....	UL
Canada .....	CSA
Germany .....	VDE
Switzerland .....	SEV
Britain .....	BASEC/BS
Japan .....	Electric Appliance Control Act

For use in other countries, make sure the AC cord meets the safety standards of each country.



## Pin Assignment

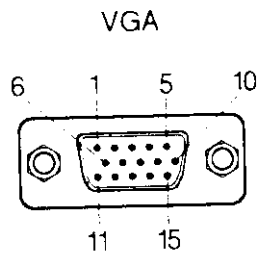
Follow the instructions below to connect to a computer.

**VGA Signal connector:** 15-pin mini D-Sub (PS/2 or PC/AT compatible model)

Connect the signal cable to the 15-pin mini D-Sub connector on the display unit.

**For MAC Adapter:** 15-pin D-Sub (MAC II )

To convert a MAC-II 15-pin D-Sub connector to a 15-pin mini D-Sub connector, use a commercial adapter (not included with the monitor) and connect it to the 15-pin mini D-Sub connector on the display unit.



Pin assignments of 15-pin mini D-sub connector

Pin number	Signal name
1	Red video signal
2	Green video signal
3	Blue video signal
4	Ground
5	— (Open)
6	Ground for Red video signal
7	Ground for Green video signal
8	Ground for Blue video signal
9	+5V Supply
10	Ground
11	Ground
12	SDA (DDC)
13	Horizontal sync. signal
14	V.CLK/Vertical sync. signal
15	SCL (DDC)

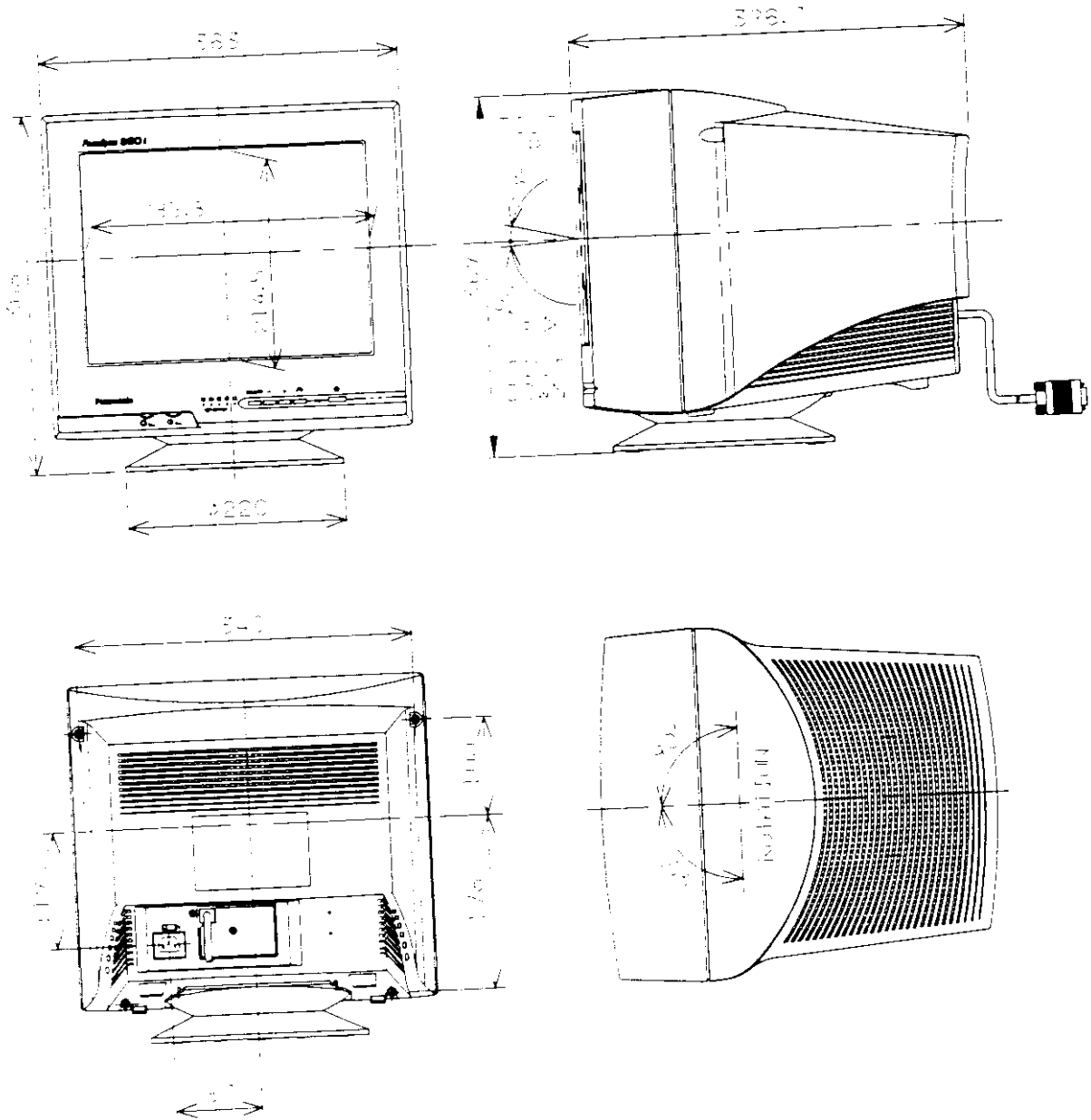
# External View

## Dimensiones

Width 363 mm (14,3")  
 Height 368 mm (14,5")  
 Depth 396,7 mm (15,6")

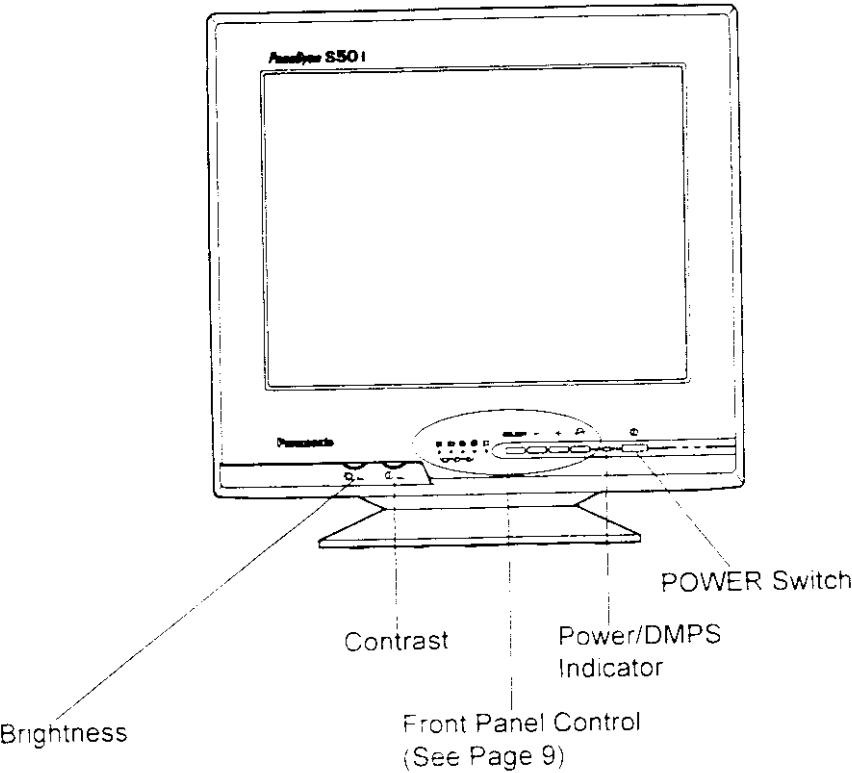
## Par/Tilt Range

Up 13°  
 Down 4°  
 Left, right 90° each

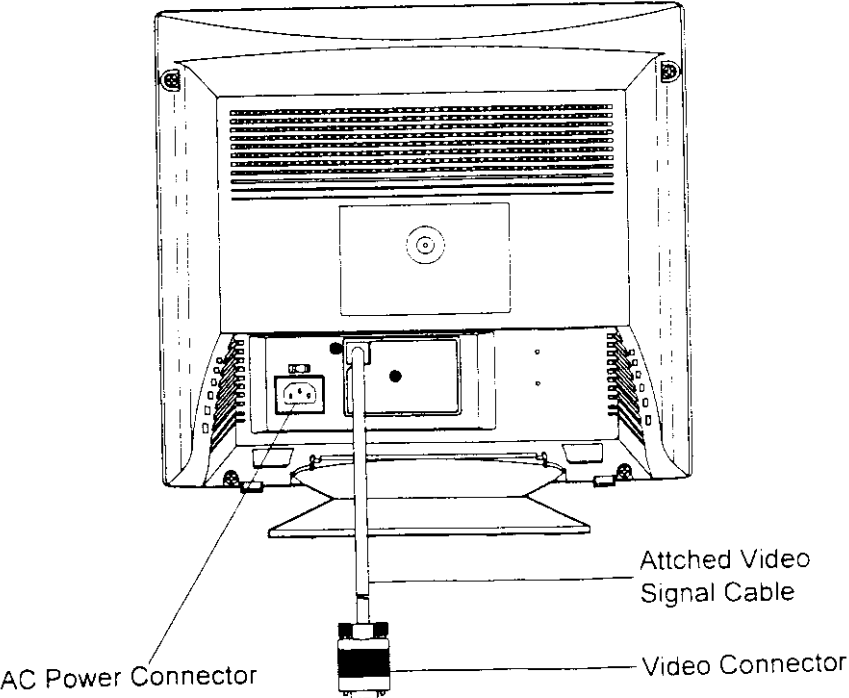


# Location and Function of Controls

## FRONT VIEW

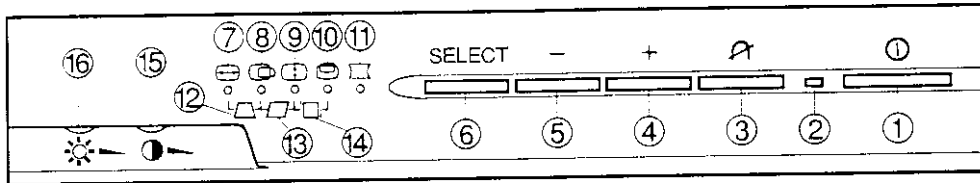


## REAR VIEW



To adjust the monitor image press the "Select" button to chose the desired display control function and press the "+" or "-" buttons to make your adjustment. The monitor will save the adjustment values after function LED is extinguished. The monitor will then store the saved values in one of the eight User Memories.

### Front panel controls



### OPERATIONS

① POWER Switch	①	Used to push the power On or Off.
② Power/DPMS Indicator	□	The power indicator lights when the power in On. Also indicates the operating level of the Display Power Management circuitry.
③ Degauss button	A	This button is used to demagnetize the picture to give a more accurate image and color.
④ + & ⑤ - buttons	+ & -	Used to change the value for a selected 6 ~ 11 buttons shown on screen by pressing "+" button for increasing or "-" button for decreasing and item's level.
⑥ Select button	SELECT	Used to select the desired display parameter to be adjusted. A LED above each of the respective icons lights to indicate the current select item.
⑦ H-width button	↔	To adjust the width of the screen image.
⑧ H-position button	◁ ▷	To move the screen image left or right.
⑨ V-size button	↑ ↓	To adjust the height of the screen.
⑩ V-position button	◁ ▷	To move the screen up and down.
⑪ V-pincushion	⌢	To straightens vertical sides of the screen.
⑫ Trapezoid button	▤	When selected both the ⑦ and ⑧ LEDs light to indicate. To makes vertical edges of the screen image paralle.
⑬ Parallelogram button	▥	When selected both the ⑧ and ⑨ LEDs light to indicate. To slants vetical edges of the screen to the left or right.
⑭ Tilt button	↻	When selected both the ⑨ and ⑩ LEDs light to indicate. To rotates entire screen image. ※ Note: With the Tilt adjustment screen displayed, press the "-" and "+" buttons simultaneously adjust rotation to its factory preset level.
⑮ Contrast button	◐	To adjusts foreground white level of screen image.
⑯ Brightness button	☀	To adjusts background black level of screen image.
Recall Control	⌂ - +	To pressing "-" and "+" button 2 seconds. You can recall the factory preset mode.
Self-Test	SELECT	When there is no signal input (Not connected or no video signal is coming from the computer or the monitor is power saving mode). The no signal can be by pressing the LED 1~LED 5.

# Power Management System

This monitor meets VESA (Video Electronics Standards Association) DPMS (Display Power Management Signaling) standards. In order for the monitor's power saving feature to function, the video board or computer must also meet VESA<sup>®</sup> DPMS<sup>™</sup> standards.

State	Power LED	Power	Recovery time
On	Green	Normal	Not Applicable
Standby	Amber	< 15 Watts	< 3 seconds
Suspend	Amber	< 15 Watts	< 3 seconds
Off	Amber	< 5 Watts	< 20 seconds

Note: The Power Management System "Off" State is different from the "Off" state of the Power Switch. When The Power Switch is "Off" the Power LED is dark.

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	Pulses	Pulses
Standby	No Pulses	Pulses
Suspend	Pulses	No Pulses
Off	No Pulses	No Pulses

The monitor automatically goes through the PMS (Power Management System) states when there are no Horizontal and/or Vertical sync pulses. To release the monitor from a PMS state, press any key on the computer keyboard.

**NOTE:**

**Pressing the monitor Power Switch when the computer is in the PMS state will not recall the screen image, you must touch any key on the keyboard or move the mouse to restore the Horizontal and/or Vertical Sync output from the computer.**

# Memories

The display has two types of memory for display adjustments. The Preset Memory stores the factory settings. The User Memory stores adjustments determined by the user. Both memories retain settings for Horizontal size, Horizontal position, Vertical size, Vertical position, Vertical pincushion and Trapezoid adjustments of the displayed image.

### **Preset Memory**

There are one (1) preset factory mode (precise setting) and seven (7) factory reservation modes (rough settings) that automatically control image size and centering when used with video boards that support these settings. See Page 12 for Factory Preset Timing Specifications.

### **User Memory**

- Users may store up to eight different sets of adjustments for: Horizontal size, Horizontal position, Vertical size, Vertical position, Vertical pincushion and Trapezoid settings.
- If the user memory is full and a new set of adjustments is saved, the oldest adjustments in user memory will be deleted.
- When the user timing is input, the Vertical, Horizontal frequencies and sync polarities of the signal are compared with the previous data stored in memory. The input signal will be stored as a new data set if one of its parameters is different from the previous stored one.
- The new input signal must have a frequency difference greater than that shown in the table below or a different sync. polarity from that of already stored. If the new timing data includes frequency changes greater than those shown in the table below or sync. polarity changes, a new user memory setting will be stored. If the frequency difference is smaller than that of the chart and the sync. polarities are the same, the existing settings will be retained.

Horizontal frequency	Vertical frequency
Low 30 kHz ~ ± 1.0 kHz	Low 50 Hz ~ ± 1.2 Hz
Hi 67 kHz ± 1.0 kHz	Hi 120 Hz ± 5.0 Hz

Please note if the timing does not meet the display specifications, the size and position adjustment may not appear as desired. Be sure the horizontal and vertical timing are within the monitor specification range. See Page 12: Timing charts and Page 4: Specification.

### **Moire of exploitation:**



Moire is a thin wavy status shown in the picture. Because the interference of the picture signal, the moire is shown in the pitch of phosphor and which is not failure for display. The contrast and wavy pitch of moire may vary depending on the phosphor pitch, picture size, focus (if focus is better, the contrast of moire become obvious), the input signal.

If you care the moire and don't like it, please follow up the below:

- 1) In PC's setup, please change the background pattern and see it. Particularly, because Moire is easy to see in background pattern with one black line, please try not to use it so often as possible as you can.
- 2) If change the horizontal and vertical size of screen, the moire level will be changed. Within the possible usage range, please set the change of size, the moire will be decreased then.

## Timing Charts

### Standard signal timing (Preset timing)

Preset Timing		Display image element	Horizontal frequency	Vertical frequency	Horiz. sync polarity	Vert. sync polarity
Data segment						
<b>Factory Preset Mode</b>						
1	XGA (1)	1024 × 768	60.02kHz	75.03Hz	+	+
<b>Reservation Mode</b>						
2	VGA	640 × 480	31.47kHz	59.94Hz	--	-
3	MAC (1)	832 × 624	49.73kHz	74.55Hz	-	-
4	VESA	640 × 480	37.50kHz	75.00Hz	--	-
5	S.VGA	800 × 600	46.88kHz	75.00Hz	+	+
6	MAC (2)	1024 × 768	60.24kHz	74.93Hz	--	-
7	XGA (2)	1024 × 768	56.48kHz	70.07Hz	-	-
8	1280	1280 × 1024	63.98kHz	60.02Hz	+	+


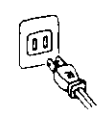
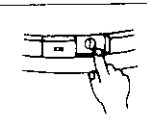
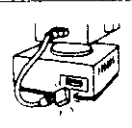
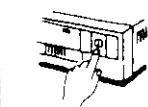
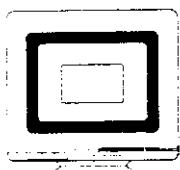
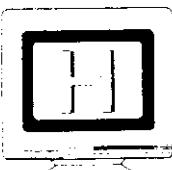

※ All the modes are Non-Interlaced.

# Trouble Shooting

If the display unit fails, check the following before calling your dealer for service.

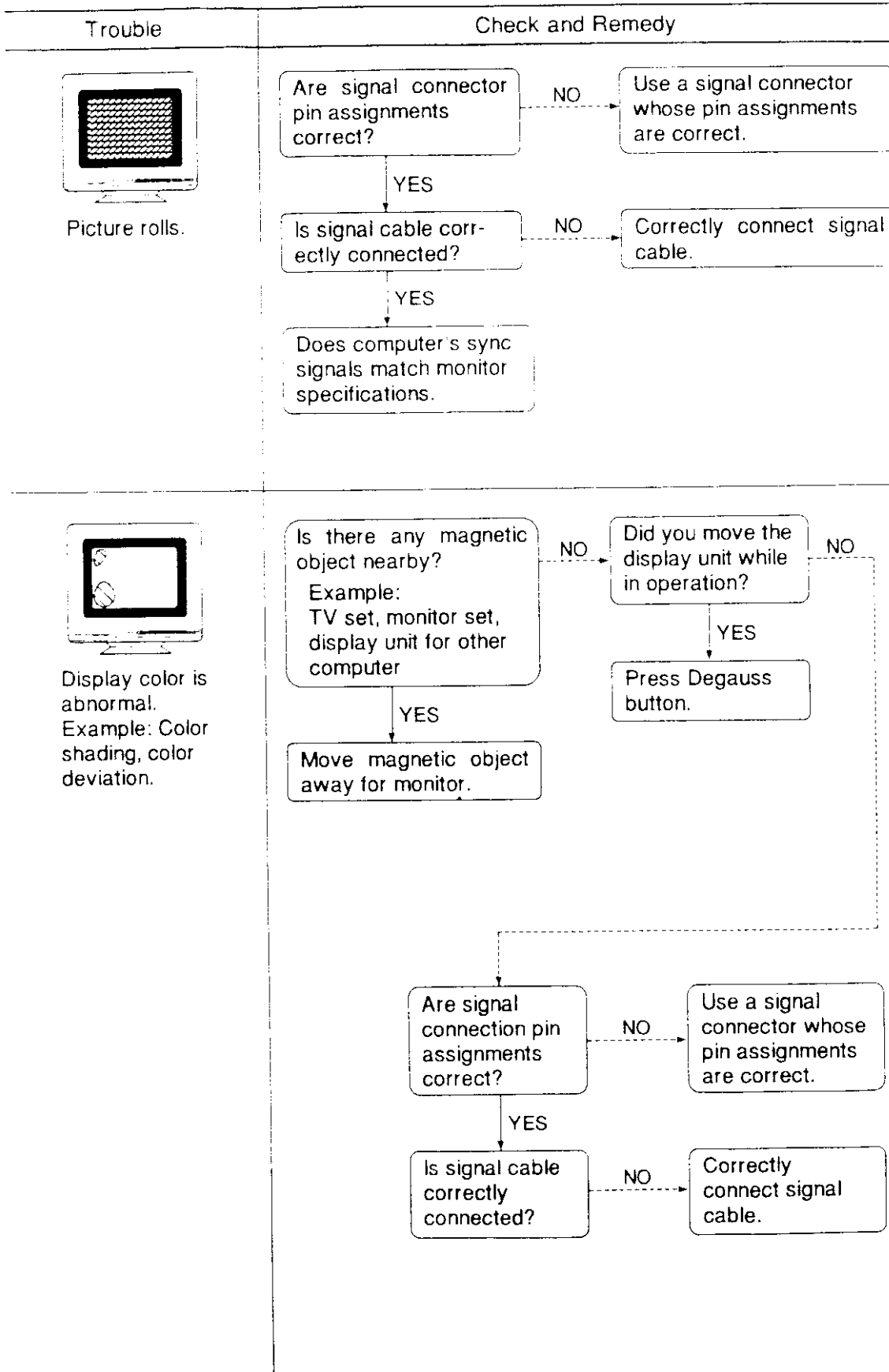
## Troubleshooting Chart

Yes:  $\longrightarrow$  No:  $\dashrightarrow$

Trouble	Check and Remedy
<div style="text-align: center;">  <p>Image is not displayed.</p> </div>	<div style="text-align: center;"> <p>Is Power Indicator on?</p> <p>NO <math>\dashrightarrow</math> Connect power cable. <span style="margin-left: 20px;">Front panel</span></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> </div> <p>YES <math>\downarrow</math></p> <p>Is Power Indicator green?</p> <p>NO <math>\dashrightarrow</math> Is Power Indicator amber?</p> <p>YES <math>\downarrow</math></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> </div> <p>Power save functions is operating. Press "SELECT" button.</p> </div> <p>If self-test screen appears, check the following.</p> <ol style="list-style-type: none"> <li>1. Check that computer and display unit are correctly connected to each other.</li> <li>2. Determine if computer is in power save mode by operating the keyboard or mouse.</li> </ol>
<div style="text-align: center;">  <p>Image size is too large or small.</p> </div>	<div style="text-align: center;"> <p>Does horizontal size or vertical size change when adjusted?</p> <p>NO <math>\dashrightarrow</math> Is input sync frequency within operating range?</p> <p>YES <math>\downarrow</math></p> <p>Adjust to desired size.</p> </div>
<div style="text-align: center;">  <p>Character appears indistinct.</p> </div> <div style="text-align: center; margin-top: 10px;">  <p>Image is too dark.</p> </div>	<div style="text-align: center;"> <p>Is monitor video input signal level the same as video output signal level from computer?</p> <p>YES <math>\downarrow</math></p> <p>Check that brightness and contrast are not at minimum.</p> </div>



Yes: → No: - - - - -



## Safety Precautions

- **If the display is not operating properly, immediately switch it off and call the dealer where you purchased the unit.**

Do not operate the unit if it emits any smoke, an abnormal noise, or a foul odor. Immediately unplug the power cable from the electrical outlet and call your dealer.

- **Caution: Never remove the rear cover.**

To prevent electric shock, do not remove the rear cover. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

- **Do not put anything inside the unit.**

If anything accidentally gets into the unit, unplug the power cable and call your dealer. Continued operation may cause fire or electric shock.

## VESA DDC1/2B

This monitor features the VESA DDC (display data channel) standard which, when used with a DDC compatible video card, will simplify the monitor's set-up.

DDC is a protocol which allows the monitor to communicate with the video card.

The monitor sends signals to the card informing the card of the monitor's factory preset modes. Then, a table is created which matches the maximum refresh rates of the monitor with those of the video card. So, for example, when you choose a resolution in Windows, the monitor will automatically run at a high refresh rate.

To implement DDC is simple:

Turn on the monitor, first.

Turn on the computer.

That's all. Some DDC compatible video cards will allow you to save the compatibility information in your AUTOEXEC.BAT file. If not, just be sure to turn on the monitor before the computer to activate DDC.

## ■ AC PLUG CORD (FOR U.K.)



FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

### Precautions:

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug.

Should the fuse need to be replaced ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.  
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.  
A replacement fuse cover can be purchased from your local Dealer.

**IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.  
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.**

If a new plug is to be fitted please observe the wiring code as shown below.  
If in any doubt please consult a qualified electrician.

**WARNING: --- THIS APPLIANCE MUST BE EARTHED.**

**IMPORTANT: ---** The wires in this mains lead are colored in accordance with the following code: ---

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colors of the wires in the mains lead of this appliance may not correspond with the colored marking identifying the terminals in your plug, proceed as follows:  
The wire which is colored GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  $\perp$  or colored GREEN or GREEN-AND-YELLOW.  
The wire which is colored BLUE must be connected to the terminal in the plug which is marked with the letter N or colored BLACK.  
The wire which is colored BROWN must be connected to the terminal in the plug which is marked with the letter L or colored RED.

### How to replace the fuse.

Open the fuse compartment with a screwdriver and replace the fuse.

