



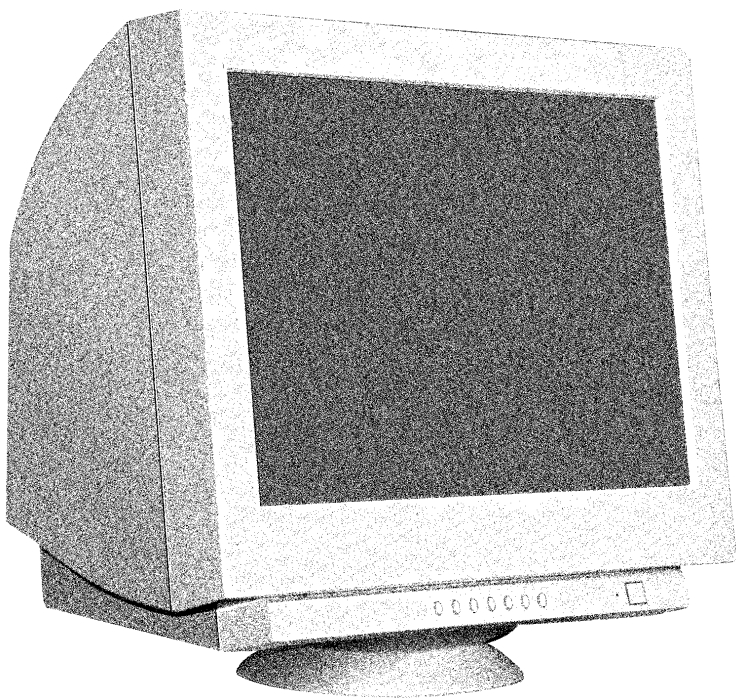
AUTO-SCANNING WITH DIGITAL CONTROL  
COLOR DISPLAY MONITOR

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## Diamond Pro 2060u

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USER'S GUIDE



For future reference, record the serial number of your display monitor in the space below:

SERIAL No.

The serial number is located on the rear cover of the monitor.

Internet Home Page: <http://www.mitsubishi-electric.com.au/>

Supplying Windows® 95/98/2000 INF File download service, new product information, etc.



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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.

THIS PRODUCT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS WITH SIGNAL CABLE SC-B110. USE IT TO REDUCE THE POSSIBILITY OF CAUSING INTERFERENCE TO RADIO, TELEVISION, AND OTHER ELECTRIC DEVICES. NO USER SERVICEABLE PARTS INSIDE. DO NOT ATTEMPT TO MODIFY THIS EQUIPMENT. IF MODIFIED, YOUR AUTHORITY TO OPERATE THIS EQUIPMENT MIGHT BE VOIDED BY FCC.

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Energy 2000 Labeling Award



### **Congratulations!**

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### **Why do we have environmentally labelled computers?**

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

### **What does labelling involve?**

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

### **TCO Development**

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): [development@tco.se](mailto:development@tco.se)

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address:

<http://www.tco-info.com/>

### **Environmental requirements**

#### **Flame retardants**

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

#### **Cadmium\*\***

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

#### **Mercury\*\***

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit.

#### **CFCs (freons)**

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

#### **Lead\*\***

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

\* Bio-accumulative is defined as substances which accumulate within living organisms

\*\* Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

# CONTENTS

ENGLISH

## CAUTION

The power cord provided with this monitor is designed for safety and must be used with a properly grounded outlet to avoid possible electrical shock.

Do not remove the monitor cabinet as this can expose you to very high voltages and other hazards.

## WARNING!

This product is not designed for use in life support devices and Mitsubishi Electric Australia Pty. Ltd. makes no representations to the contrary. Life support devices are those devices which are used to measure, diagnose, or evaluate the tissue, systems or functions of the human body; or other devices employed to support or sustain life or good health.

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1. INTRODUCTION .....	2
1.1 Features .....	2
1.2 Internal Preset Memory Capability .....	3
1.3 Power Management Function .....	3
1.4 DDC .....	3
1.5 Location Considerations .....	3
1.6 Cleaning Your Monitor .....	3
1.7 Unpacking .....	4
1.8 Tilt/Swivel Base .....	4
Screen Position Adjustment .....	4
1.9 Quick Operation Chart .....	4
2. PART NAME .....	5
2.1 Control Names .....	5
2.2 Function .....	5
3. INSTALLATION AND CONNECTION .....	6
3.1 AC Power Connection .....	6
3.2 Signal Cable Connection .....	6
3.2.1 Connecting to any IBM VGA Compatible System .....	6
3.2.2 Connecting to an Apple Macintosh Computer .....	6
3.2.3 Connecting to two computers .....	7
3.3 USB System Basic Application .....	7
3.4 Installation of USB Function .....	8
4. OSD(On Screen Display) FUNCTIONS .....	9
4.1 How to adjust the screen .....	9
4.2 Adjustment Items .....	10
5. TROUBLESHOOTING .....	12
6. SPECIFICATIONS .....	14
7. APPENDIX .....	15
7.1 Monitor Signal Input Connector (DB9-15P) ..	15
7.2 SC-B110 Signal Cable .....	15
7.3 Optional Macintosh Adapter AD-A205 Settings	15
8. WARRANTY .....	17

# 1 INTRODUCTION

Congratulations on your purchase of this high resolution colour monitor. We designed this monitor to provide you with years of reliable trouble-free operation.

This guide tells you how to connect, adjust and care for your monitor. This guide also provides technical specifications and instructions for troubleshooting any basic problems you may experience with your monitor.

## 1.1 Features

This monitor is a 55cm/22" (508mm/20" Viewable Image Size) intelligent, microprocessor-based monitor compatible with most analog RGB (Red, Green, Blue) display standards.

It provides crisp text and vivid colour graphics with both PC and Macintosh platforms.

- The monitor's wide auto-scanning compatibility range makes it possible to upgrade video cards or software without purchasing a new monitor.
  - Digitally controlled auto-scanning is done using an internal microprocessor, for horizontal scan frequencies between 30kHz and 121kHz, and vertical scan frequencies between 50Hz and 160Hz. The microprocessor-based intelligence allows the monitor to operate in each frequency mode with the precision of a fixed frequency monitor.
  - The monitor contains resident memory for pre-programmed screen display standards and is also capable of storing additional user adjustment parameters.
  - The monitor has "AUTO SIZE ADJUST" function to optimize the size and distortion for Non-Preset timings.
  - The monitor is capable of producing a non-interlaced maximum addressable resolution format of 2048 dots x 1536 lines. This display is well suited for windowing environments.
  - Because of the analog signal inputs, the monitor can display an unlimited palette of colours that can be manually adjusted to suit your specific needs.
  - The monitor has a power management function accorded to VESA™-DPMS™-standard. To save energy, the monitor must be connected to a system compliant with the VESA™ -DPMS™-standard. (Refer to your computer and/or video card instructions for proper operation.)
  - To ensure ease of installation and ongoing use, the monitor features On Screen Display (OSD) of all monitor set-up and adjustment functions.
  - For use in a variety of applications, the monitor complies with UL 1950, CSA C22.2 No.950 and EN60950 for safety, FCC Class-B, VCCI Class-B, EN55022 Class-B and AS / NZS 3548 Class-B for EMI, MPR-II, ISO 9241-3, ISO9241-7 and ISO9241-8 for ergonomics. The monitor also complies with TCO'99 guideline for environmental safe use.
- This monitor features the new standard in CRT technology, the DIAMONDTRON NF with improved focus and convergence for super-sharp and pure displayed images.
  - The monitor complies with Video Electronics Standards Association (VESA™) DDC™2B and 2Bi (EDID) specification. If your computer is Plug & Play compliant setup will be done automatically.
  - Fine 0.24mm aperture grille pitch/Maximum addressable resolution of 2048 x 1536.
  - USB self-powered hub with 1 upstream port and 3 downstream ports.

## 1.2 Internal Preset Memory Capability

To minimize adjustment needs, the factory has preset popular display standards into the monitor, as shown in Table 1. If any of these display standards are detected, the picture size and position are automatically adjusted. All of the factory presets may be overwritten by adjusting the user controls. This monitor is capable of automatically storing up to 15 additional display standards. The new display information must differ from any of the existing display standards by at least 1kHz for the horizontal scan frequency or 1Hz for the vertical scan frequency or the sync signal polarities must be different.

Table 1. Memory Buffer Factory Presets

PRESET TIMING				Fh(kHz)	Fv (Hz)	Polarity	
		N.I.	H			V	
640	x	480	N.I.	31.5	60.0	-	-
800	x	600	N.I.	46.8	75.0	+	+
1024	x	768	N.I.	60.0	75.0	+	+
1024	x	768	N.I.	68.7	85.0	+	+
1280	x	1024	N.I.	80.0	75.0	+	+
1280	x	1024	N.I.	91.1	85.0	+	+
1600	x	1200	N.I.	93.8	75.0	+	+
1600	x	1200	N.I.	106.3	85.0	+	+
1920	x	1440	N.I.	112.5	75.0	-	+
1800	x	1350	N.I.	120.4	85.0	-	-

## 1.3 Power Management Function

The monitor has a power management function which reduces the power consumption of the monitor when not in use.

Power saving mode is invoked by a VESA DPMS-compliant computer. Check your computer's manual for setting this function.

Mode	Power	Power-On Indicator
Normal	140 W	Green
Power Saving Mode	≤ 3 W	Orange

**NOTE** without USB operation

## 1.4 DDC

The monitor includes the VESA DDC™2B and DDC™2Bi feature. DDC (Display Data Channel) is a communication channel over which the monitor automatically informs the computer system about its capabilities (e.g. each supported resolution with its corresponding timing). DDC is routed through previously unused pins of the 15-pin VGA connector.

The system will "Plug and Play" if both monitor and computer implement the DDC protocol.

**NOTE**

DDC™2Bi is available only with connector SIGNAL-B.

## 1.5 Location Considerations

When setting up and using the monitor, keep the following in mind:

- For optimum viewing, avoid placing the monitor against a bright background or where sunlight or other light sources may reflect on the display area of the monitor. Place the monitor just below eye level.
- Place the monitor away from strong magnetic or electromagnetic fields, such as high capacity transformers, electric motors, large current power lines, steel pillars, etc....

Magnetism can cause distortion in the picture and/or colour purity.

- Avoid covering the slots or openings of the monitor. Allow adequate ventilation around the monitor so the heat from the monitor can properly dissipate. Avoid putting the monitor into any enclosure that does not have adequate ventilation.
- Avoid exposing the monitor to rain, excessive moisture, or dust, as this can cause a fire or shock hazard.
- Avoid placing the monitor, or any other heavy object, on the power cord. Damage to the power cord can cause a fire or electrical shock.
- When transporting the monitor, handle it with care.

## 1.6 Cleaning Your Monitor

When cleaning the monitor, please follow these guidelines:

- Always unplug the monitor before cleaning.
- Wipe the screen and the front and sides of the cabinet with a soft, dry cloth.
- If the screen requires more than dusting, apply water or neutral detergent to a soft cloth to clean the monitor screen.

**CAUTION**

- Do not use benzene, thinner or any volatile substances to clean the unit as the finish may be permanently marked.
- Never leave the monitor in contact with rubber or vinyl for an extended time period.
- Do not spray directly on the screen as cleaner may drip into the monitor and damage the circuitry.
- Never use an abrasive cleaner on the screen surface as this will damage the anti-reflection coating.

## 1.7 Unpacking

After you unpack the box you should have all of the items indicated in Figure 1. Save the box and packing materials in case you transport the monitor.

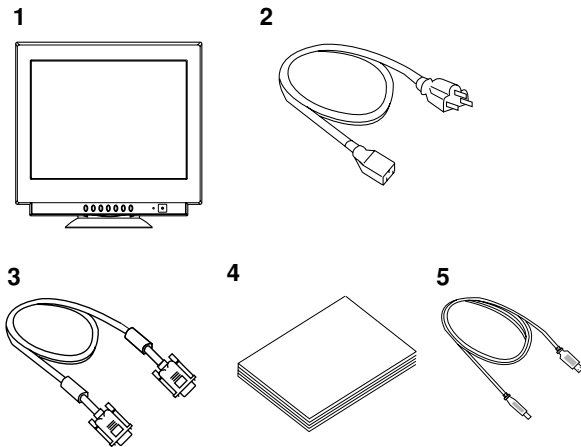


Figure 1

- |                         |                                    |
|-------------------------|------------------------------------|
| 1. Colour Monitor       | 4. User's Guide<br>(this document) |
| 2. AC Power Cord        | 5. USB Upstream Cable              |
| 3. Signal Cable SC-B110 |                                    |

## 1.8 Tilt/Swivel Base

The monitor comes with a tilt/swivel base. This enables you to position the monitor at the best angle and tilt for maximum viewing comfort.

### Screen Position Adjustment

Adjust the tilt and rotation of the monitor by placing your hands at opposite sides of the case. You can adjust the monitor 90 degrees right or left, 10 degrees up or 5 degrees down, as shown below.

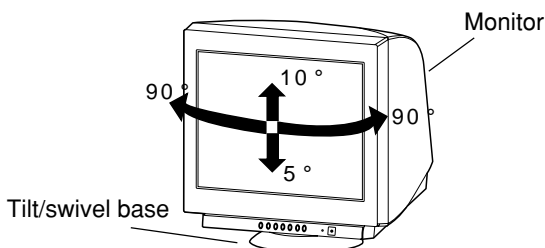


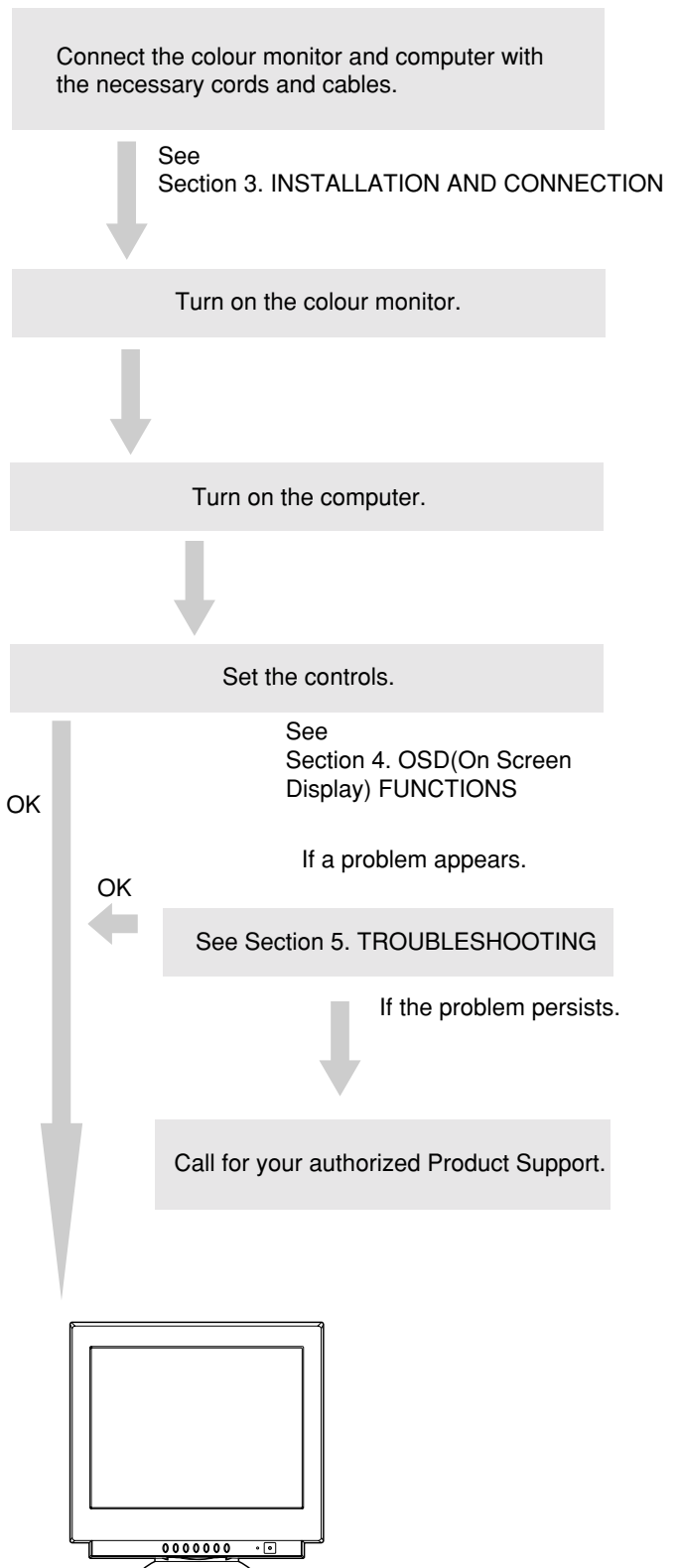
Figure 2

### CAUTION

Keep your fingers away from the pivot area of the tilt/swivel base.

## 1.9 Quick Operation Chart

To summarize the steps in connecting your computer with the colour monitor and setting the necessary controls and switches, refer to the chart below.





# 2 PART NAME

## 2.1 Control Names

See Figures 3 and 4 for the location of the user controls, indicator and connectors.

Each part is identified by number and is described individually.

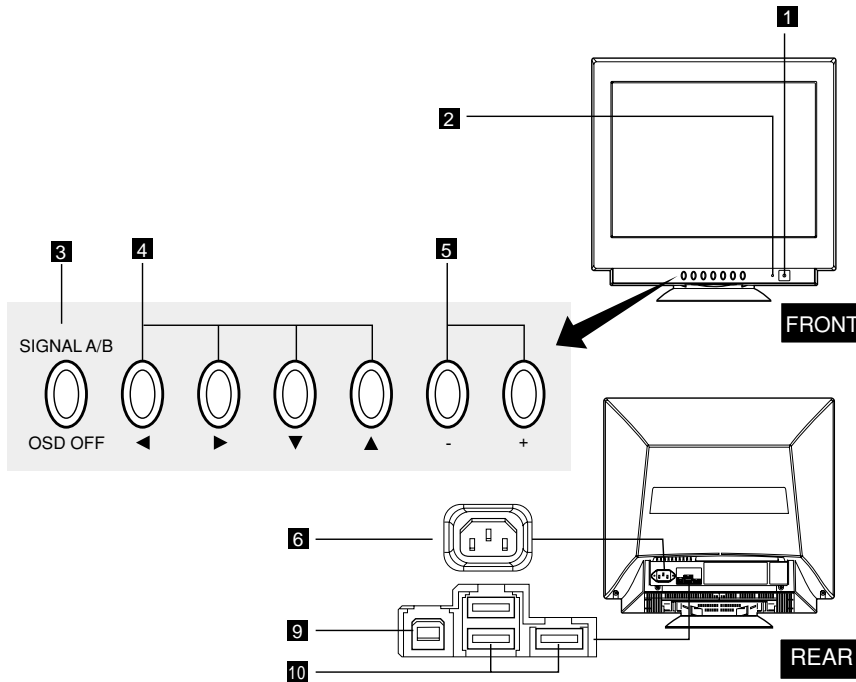


Figure 3

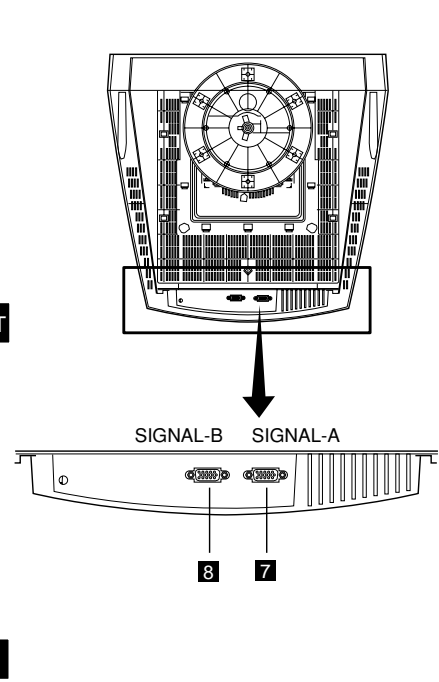


Figure 4

## 2.2 Function

1. **POWER SWITCH:** A push-on / push-off switch for AC power.
2. **POWER-ON INDICATOR:** This indicator illuminates green when AC power is on, and illuminates orange when the monitor is in the power management modes.
3. **INPUT CONNECTOR SELECT/OSD OFF BUTTON:**
  - Without OSD screen, push to select the signal input connector, SIGNAL A or B.
  - With OSD screen, push to turn the OSD screen off.

**NOTE**

If only one input is used, the monitor will select it automatically.

4. **ITEM SELECT BUTTONS:** Push to select the item icon.

5. **FUNCTION ADJUST BUTTONS:** Push the adjust buttons to adjust the image on the screen.
6. **AC POWER CONNECTOR**
7. **SIGNAL INPUT CONNECTOR (SIGNAL-A):DB9-15P**
8. **SIGNAL INPUT CONNECTOR (SIGNAL-B):DB9-15P**
9. **USB UPSTREAM PORT:** To connect to USB equipped computer.
10. **USB DOWNSTREAM PORTS:** To connect to USB equipped peripherals, e.g, USB cameras, keyboards, printers, etc.

# 3 INSTALLATION AND CONNECTION

On the back of the monitor three kinds of plug-in connections are provided: AC power connector for the AC input, two DB9-15P connectors for video signal input, and USB ports for USB communication.

## 3.1 AC Power Connection

One end of the AC power cord is connected to the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet. The monitor's auto-sensing power supply can automatically detect 100-120V AC or 220-240V AC and 50 or 60Hz.

## 3.2 Signal Cable Connection

The DB9-15P(VGA) connector is provided for compatible analog RGB outputs from your computer. Apple Macintosh computers can also be interfaced with using the optional Mitsubishi Macintosh adapter AD-A205.

### 3.2.1 Connecting to Any IBM VGA Compatible System

Figure 5 shows the SC-B110 cable connection to the Video Graphics Array (VGA) port in an IBM Personal System/2® series, or any VGA compatible system.

1. Power off, both the monitor and the computer.
2. Connect the one end of the SC-B110 cable to the DB9-15P connector on the VGA controller card.
3. Connect the other end of the SC-B110 cable to the DB9-15P receptacle on the back of the monitor.
4. Power on the monitor, then the computer.
5. After using the system, power off the monitor, then the computer.

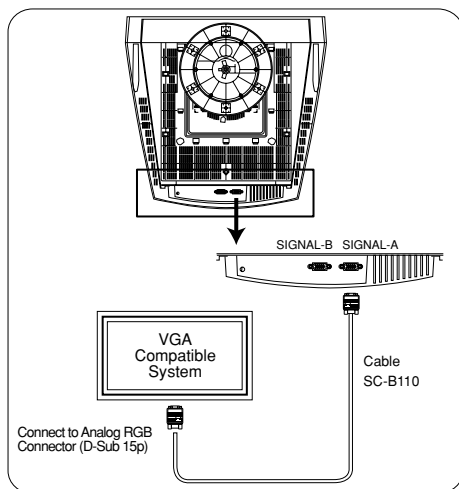


Figure 5

### CAUTION

The socket-outlet shall be installed near the equipment and shall be easily accessible. During servicing, disconnect the plug from the socket-outlet.

### 3.2.2 Connecting to An Apple Macintosh Computer

Figure 6 shows the SC-B110 cable and AD-A205 Adapter(option) to the video port in an Apple Macintosh.

For Macintosh Adapter AD-A205, contact your dealer.

1. Power off, both the monitor and the computer.
2. Set the DIP switches of Macintosh Adapter according to the setting chart. (See Section 7.3 Optional Macintosh Adapter AD-A205 Settings)
3. Connect the 15-pin (DB-15P) end of the AD-A205 Adapter to the straight 15-pin connector on the Macintosh video port on the computer or on the video board.
4. Connect the sub-miniature 15-pin (DB9-15P) end of the AD-A205 Adapter to the SC-B110 cable.
5. Connect the other end of the SC-B110 cable to the DB9-15P receptacle on the back of the monitor.
6. Power on the monitor, then the Macintosh.
7. After using the system, power off the monitor, then the Macintosh.

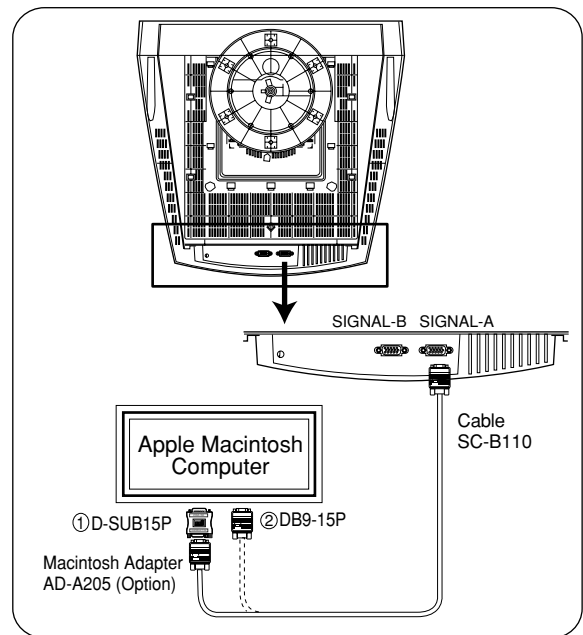


Figure 6

### NOTE

- For the Apple Macintosh Computers having a VGA compatible port, steps 2 through 4 are not necessary. Connect the end of the signal cable to the port directly.
- If you have an Apple Macintosh G3 series, use the Control Panel in the Apple Menu to select the resolution. If the resolution is selected from the Control Strip, the screen may go blank and the computer may freeze.

### 3.2.3 Connecting to two computers

Figure 7 shows the connection to two computers.

Refer to clause 3.2.1 or 3.2.2 for the connection procedure.

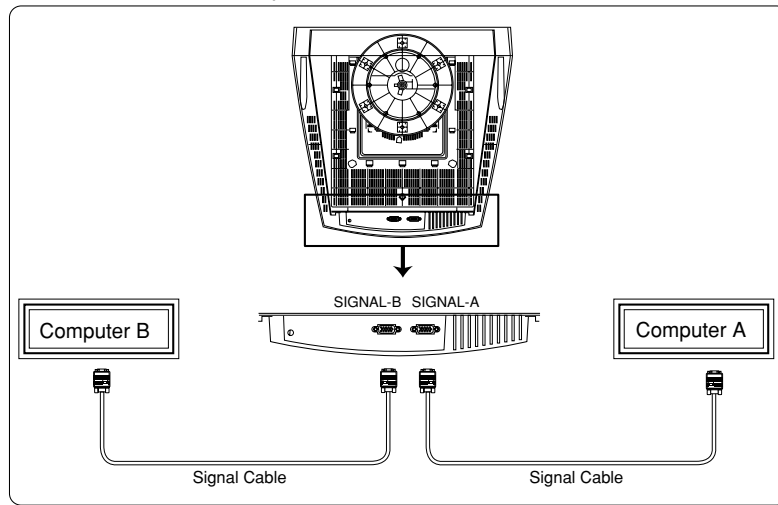
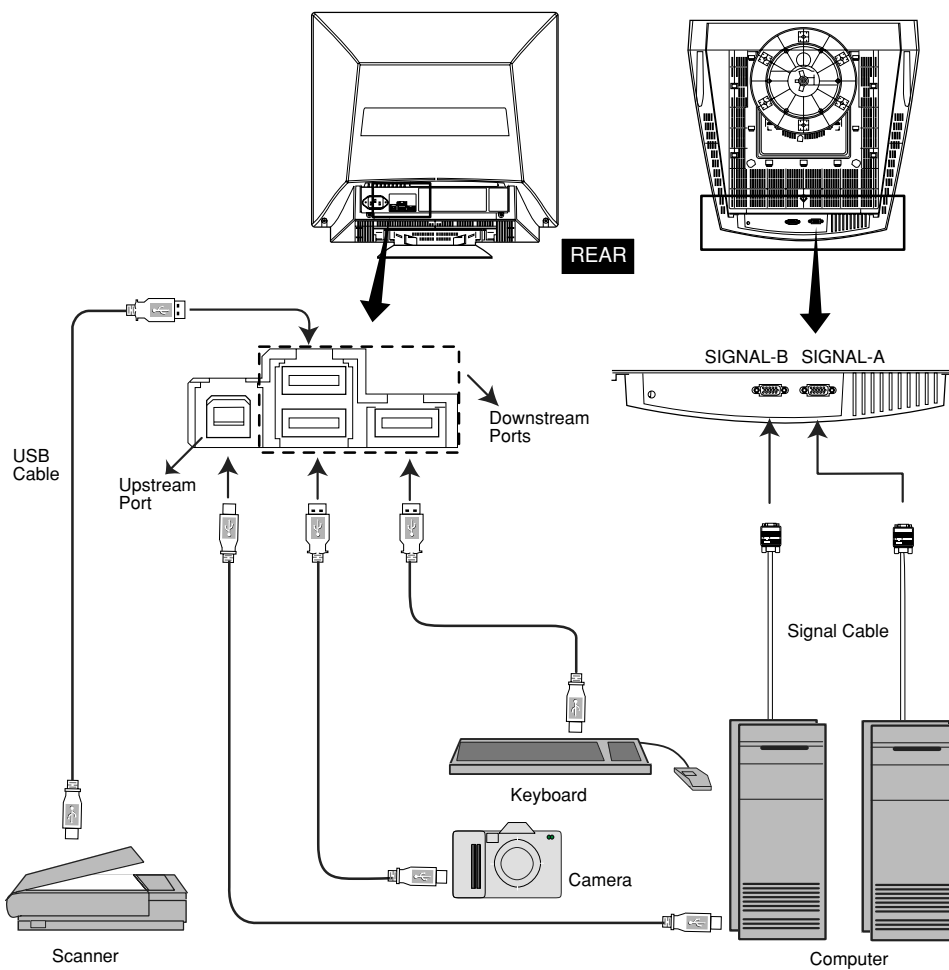


Figure 7

### 3.3 USB System Basic Application



**NOTE**

The computer must have Windows 98 or later installed to support USB functions.

### 3.4 Installation of USB Function

The following procedure permits your computer to recognize or "enumerate"(A USB term) the USB HUB.

1. Power on the display monitor and then the computer.
2. Start "Enumeration" from the Windows® Desktop.

**NOTE**

- During the enumeration of USB Hub, connect the keyboard and mouse, to the computer and not to the downstream ports on the display monitor. After the enumeration, the keyboard and mouse can be used by connecting to the downstream ports, if they are USB-compliant.
- Do not unplug the USB cable during the enumerations.

- (1) Connect the computer and the display monitor with the included USB cable. Figure 8 will appear.
- (2) Click "Next" on Figure 8 to get Figure 9.
- (3) Click "Finish" on Figure 9 to complete the enumeration of USB HUB.



Figure 8



Figure 9

You can confirm that the USB HUB is successfully enumerated with the following method.

- Open "Device Manager" tab in "System" property under "Control Panel". Confirm that "Generic USB HUB" is listed in "Universal Serial Bus Controller". If you can't confirm it, re-enumerate the USB HUB again by following (a) or (b).

- (a) Disconnect and connect the USB cable to the upstream port of the display monitor.
- (b) Cycle power of the display monitor off then on.

**NOTE**

If the mark ① appears with "Generic USB HUB", then enumeration was unsuccessful. Select "Generic USB HUB" marked with ① mark and click "Remove" and "Refresh". After that, the enumeration is automatically started.

**NOTE**

The enumeration of USB HUB may be necessary for each USB port on the computer.

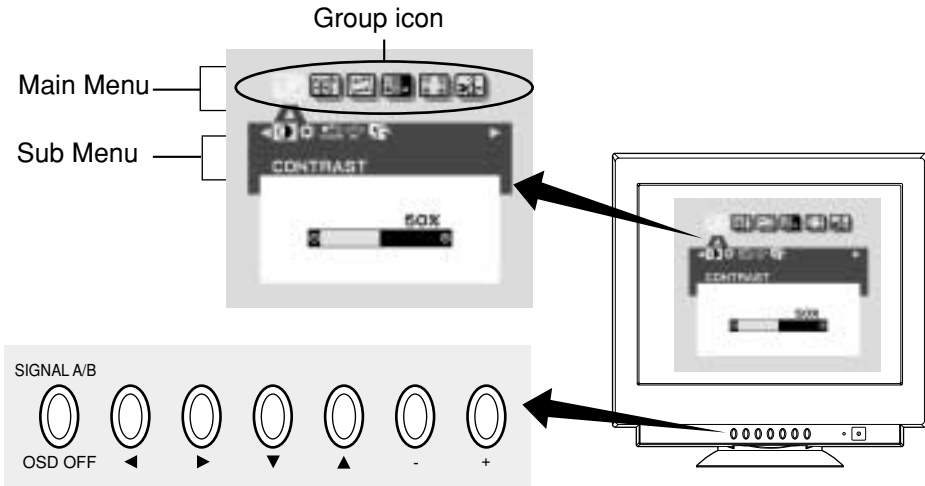


Figure 10

# 4 OSD (On Screen Display) FUNCTIONS

## 4.1 How to adjust the screen

































The monitor has an OSD(On Screen Display) function.  
The following procedure shows how to adjust the screen using the OSD function.





- (1) Turn on the monitor by pressing
- (2) Display the OSD screen by pressing
- (3) Select the group icon on Main Menu by pressing
- (4) Display the Sub Menu by pressing
- (5) Select the item icon on Sub Menu by pressing
- (6) Adjust by pressing
- (7) To turn the OSD screen off, press button

If you don't press a button during the time set by "OSD TURN OFF", the OSD will turn off automatically.



























## 4.2 Adjustment Items



Group Icon	Item Icon	Item	Press the Minus Button  	Press the Plus Button  	A	B	C	
 (COLOR)		CONTRAST	To decrease the contrast.	To increase the contrast.	X	X	X	
		BRIGHT	To decrease the brightness.	To increase the brightness.	X	X	X	
		COLOR	To select preferable display color mode. And, to adjust the color balance at the selected color mode.		X	X	X	
	<b>NOTE</b> When selecting mode "sRGB", "COLOR TEMPERATURE", "CONTRAST" and "BRIGHT" are unavailable.							
		COLOR TEMPERATURE	To decrease the color temperature of the color mode selected by "COLOR"	To indecrease the color temperature of the color mode selected by "COLOR"	X	X	X	
		FINE PICTURE MODE	Selects the status which provides the most pleasing image. NORMAL MODE - - - for normal use TEXT MEDE - - - - for image using many letters or characters GRAPHIC MODE - - - for graphic and photographic images.		X			
 (GEOMETRY)		FACTORY PRESET	_____	To restore to factory preset level.	-	-	-	
		AUTO SIZE ADJUST	_____	To adjust the screen size automatically based on input timing.	-	-	-	
	<b>NOTE</b> "AUTO SIZE ADJUST" is unavailable when no image signal or narrow size of the image signal are inputted.							
		HORIZ-SIZE	To narrow the width of the image on the screen.	To expand the width of the image on the screen.	X	X		
		HORIZ-POSITION	To move the image on the screen to the left.	To move the image on the screen to the right.	X	X		
		VERT-SIZE	To narrow the height of the image on the screen.	To expand the height of the image on the screen.	X	X		
		VERT-POSITION	To move the image down.	To move the image up.	X	X		
		ROTATION	To rotate the image counterclockwise.	To rotate the image clockwise.	X	X	X	
 (DISTORTION)		GTF AUTO ADJUST	_____	To adjust the screen size automatically based on GTF timing.	-	-	-	
	<b>NOTE</b> "GTF AUTO ADJUST" is available when using with the computer which VESA GTF function is installed.							
		FACTORY PRESET	_____	To restore to factory preset level.	-	-	-	
	<b>NOTE</b> If a non-Factory Preset timing is used, "FACTORY PRESET" is unavailable.							
		PINCUSHION	To contract the center of the image.	To expand the center of the image.	X	X		
	PIN-BALANCE	To move the top and bottom of the screen image to the right.	To move the top and bottom of the screen image to the left.	X	X			
	KEYSTONE	To decrease the width at the top of the screen image and to increase the width at the bottom.	To increase the width at the top of the screen image and to decrease the width at the bottom.	X	X			
	KEY-BALANCE	To make the screen slant to the left.	To make the screen slant to the right.	X	X			
	TOP-PIN	To expand the width of the screen image near the corners of top.	To narrow the width of the screen image near the corners of top.	X	X			
	TOP-BALANCE	To make the screen slant to the left at the top.	To make the screen slant to the right at the top.	X	X			
	BOTTOM-PIN	To expand the width of the screen image near the corners of bottom.	To narrow the width of the screen image near the corners of bottom.	X	X			
	BOTTOM-BALANCE	To make the screen slant to the left at the bottom.	To make the screen slant to the right at the bottom.	X	X			
	VERT-LIN	To vertically compress the center of the screen and expand the top and bottom.	To vertically expand the center of the screen and compress the top and bottom.	X	X			
	VERT-LIN-BALANCE	To vertically expand the bottom of the screen and compress the top.	To vertically compress the bottom of the screen and expand the top.	X	X			
	FACTORY PRESET	_____	To restore to factory preset level.	-	-	-		
<b>NOTE</b> If a non-Factory Preset timing is used, "FACTORY PRESET" is unavailable.								

- A. Press "FACTORY PRESET" to restore to the factory preset level.  
 B. Press  and  buttons together, to restore to the factory preset level.  
 C. Set data does not change by the change of the signal timing.

### NOTE

If a non-Factory Preset timing is used, "FACTORY PRESET" does not work.

Group Icon	Item Icon	Item	Press the Minus Button	Press the Plus Button	A	B	C
							
 (PURITY)		CORNER PURITY(TL)	To adjust the purity condition on the top-left corner.		X	X	X
		CORNER PURITY(TR)	To adjust the purity condition on the top-right corner.		X	X	X
		CORNER PURITY(BL)	To adjust the purity condition on the bottom-left corner.		X	X	X
		CORNER PURITY(BR)	To adjust the purity condition on the bottom-right corner.		X	X	X
		MOIRE CANCEL LEVEL	To decrease the level of the moire-clear wave.		X	X	
		CLAMP PULSE POSITION	To eliminate an excessive green or white-back ground that may occur when both Sync-On green and external sync signals are applied to the monitor. To clamp the video signal at the front of the H-Sync pulse.	To clamp the video signal at the back of the H-Sync pulse. If you connect to an older Macintosh, you may need to press plus button.	X		
		FACTORY PRESET	_____	To restore to factory preset level.	-	-	-
 (CONVER.)		HORIZ-CONVERGENCE	To adjust the horizontal beam alignment on the full screen area.		X	X	X
		VERT-CONVERGENCE	To adjust the vertical beam alignment on the full screen area.		X	X	X
		FACTORY PRESET	_____	To restore to factory preset level.	-	-	-
 (MISC.)		DEGAUSS	_____	To eliminate possible color shading or impurity due to magnetic effects.	-	-	-
		INPUT	To select the signal input connector, SIGNAL A or B.				
		POWER SAVE	To select the constant power consumption mode.	To select the power-save mode. (Your computer must be set for power management.)	X		X
		CONTROL LOCK	To unlock the OSD adjustments.	To lock the OSD function except for "BRIGHT" and "CONTRAST".			X
			<b>NOTE</b> "BRIGHT" and "CONTRAST" are available at the locked condition.				
		OSD POSITION	To move the OSD screen position in a counter clockwise direction.	To move the OSD screen position in a clockwise direction.	X		X
		OSD TURN OFF	To adjust the time that the OSD screen is displayed for when no buttons are pressed, before it disappears.		X	X	X
		DIAGNOSIS	Indicates the current scanning frequency, factory or user preset timing number, and signal input connector.		-	-	-
		LANGUAGE	To choose the language used on OSD. ENG.....English, GER.....German, FRA.....French, ESP.....Spanish, ITA ..... Italian, 日本語 .....Japanese				X
		AUTO SAVE	To save the new setting automatically.	To save the new setting with a confirmation message.			X
			<b>NOTE</b> When selecting "OFF", if "SAVE" is not done before the OSD screen disappeared, the new setting is invalid.				
	ALL RESET	_____	Restores all items to the factory preset level.		-	-	-
	FACTORY PRESET	_____	To restore to factory preset level.		-	-	-


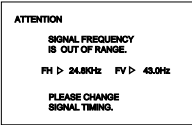
- A. Press "FACTORY PRESET" to restore to the factory preset level.  
 B. Press  and  buttons together, to restore to the factory preset level.  
 C. Set data does not change by the change of the signal timing.

**NOTE**

If a non-Factory Preset timing is used, "FACTORY PRESET" does not work.

# 5 TROUBLESHOOTING

Before calling your Authorized Product Support, please check that the items below are properly connected or set. In case of using a non-standard signal, please check the pin assignments and the signal timing of your computer with the specification outlined in Section 6. SPECIFICATIONS and Section 7. APPENDIX.

PROBLEM		ITEMS TO CHECK	LOCATION
No picture	LED On (Green)	<ul style="list-style-type: none"> <li>Contrast and brightness controls.</li> </ul>	<ul style="list-style-type: none"> <li>Front</li> </ul>
	LED Off	<ul style="list-style-type: none"> <li>Power switch.</li> <li>AC power cord disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>Front</li> <li>Rear</li> </ul>
	LED On (Orange)	<ul style="list-style-type: none"> <li>Signal cable disconnected.</li> <li>Computer power switch.</li> <li>Power management function is active.</li> </ul>	<ul style="list-style-type: none"> <li>Rear</li> <li>Computer</li> <li>Press any key on the keyboard or move the mouse.</li> </ul>
The following message appeared. 		<ul style="list-style-type: none"> <li>Signal cable disconnected.</li> <li>Computer power switch.</li> <li>Power management function is active.</li> </ul>	<ul style="list-style-type: none"> <li>Rear</li> <li>Computer</li> <li>Press any key on the keyboard or move the mouse.</li> </ul>
The following message appeared. 		<ul style="list-style-type: none"> <li>Input signal frequency range is too high or too low for the monitor to synchronize with.</li> </ul>	<ul style="list-style-type: none"> <li>Check the specification of graphics adapter</li> </ul>
Abnormal picture	Display is missing, center shifts, or too small or too large of a display size	<ul style="list-style-type: none"> <li>Do "FACTORY PRESET" or "ALL RESET" for a standard signal.</li> <li>Adjust HORIZ-SIZE, VERT-SIZE, HORIZ-POSITION, and VERT-POSITION with non-standard signals.</li> <li>Monitor may not be able to get full-screen image depend on signal. In this case, please select other resolution, or other vertical refresh timing.</li> <li>Make sure you wait a few seconds after adjusting the size of the image before changing or disconnecting the signal.</li> </ul>	<ul style="list-style-type: none"> <li>Front (OSD)</li> <li>Front (OSD)</li> </ul>
	No operation of the USB devices	<ul style="list-style-type: none"> <li>[Universal serial bus controller] is not listed in [Device Manager].</li> <li>[Generic USB HUB] is not listed in [Device Manager].</li> </ul>	<ul style="list-style-type: none"> <li>Confirm that Windows98 is installed into the computer.</li> <li>Make sure of the cable connections.</li> <li>Restart the computer.</li> <li>Switch the monitor off and switch it on again.</li> <li>Disconnect all the cables connected to the Upstream ports and re-connect then.</li> </ul>



PROBLEM		ITEMS TO CHECK	LOCATION
Abnormal Picture	<p>Black vertical lines are visible on the screen.</p>	<ul style="list-style-type: none"> <li>Thin vertical black lines on one or both sides of the screen. This minor condition is caused by grille element overlap which can occur during shipping.</li> <li>Position an open white window over the affected area of the screen and maximize the brightness and contrast controls. This will cause localized heating of the overlap which will clear in a few minutes. Be sure to readjust the brightness and contrast controls back to the normal viewing levels after this procedure.</li> </ul>	
	<p>Two fine horizontal lines are visible on the screen.</p>	<ul style="list-style-type: none"> <li>The 2 very faint thin lines across the screen are normal. They are caused by the aperture grille stabilization filaments(Damper Wires) which are required for all aperture grille CRTs'.</li> </ul>	
	<p>A buzzing sound when power on.</p>	<ul style="list-style-type: none"> <li>A brief vibration or hum sound that is heard just after power up is normal. This is caused by the automatic degaussing function. This sound will be heard each time the monitor is powered up from a cold start and each time the manual degauss button is used.</li> </ul>	
SELF DIAGNOSIS FUNCTION	<p>This monitor has "SELF DIAGNOSIS" to check the operating conditions of the monitor. If the signal cable is disconnected or abnormal signal is received, the following message will appear.</p>	<ul style="list-style-type: none"> <li>Check the colour bar. (e.g RED, GREEN, BLUE)</li> <li>CHECK the H, V signal input.</li> <li>Push the ▷ button, the picture size is expanded to a large size.</li> <li>Check power-on indicator on the bezel. If this indicator is blinking (Orange--&gt; Black--&gt; Orange), there is a possibility of failer. Please call your Authorized Product Support.</li> </ul>	

# 6

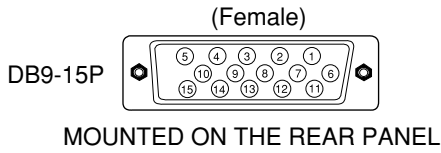
## SPECIFICATIONS

CRT	Size	55cm/22" (508mm/20" Viewable Image Size)	
	Mask type	Aperture grille	
	Gun	In-line	
	Deflection angle	90°	
	Phosphors	Red, Green, Blue EBU (medium short persistence)	
	Aperture grille pitch	0.24mm	
	Phosphor pitch	0.25mm	
	Face Plate	G-WARAS	
	Focusing method	Dynamic Beam Forming (DBF)	
INPUT SIGNAL	Video	0.7Vp-p analog RGB	
	Sync	Separate H, V sync., Composite sync., or Sync on Green	
SIGNAL INTERFACE	Input Connectors	DB9-15P X 2	
	Input Impedance	75Ω (video), 2.2kΩ (sync.)	
USB	Function	•Self-powered HUB complying with Universal Serial Bus Specification Rev.1.1	
	Interface	•Upstream port/12Mbps •3 Downstream ports/12Mbps, 1.5 Mbps (500mA max. per each Downstream port)	
SCANNING FREQUENCY	Horizontal	30 - 121kHz	
	Vertical	50 - 160Hz	
RESOLUTION (HxV)	2048 dots x 1536 lines Non-Interlaced maximum addressable resolution format at 75Hz		
WARM-UP TIME	30 minutes to reach optimum performance level		
BRIGHTNESS	100cd/m <sup>2</sup> , standard full white video signal at 9300K (+ 8MPCD)		
BLANKING TIME	Horizontal	≥ 2.0 μsec (typ.)	
	Vertical	≥ 400 μsec (typ.)	
DISPLAY SIZE	396mm x 297mm(typ.) ratio 4:3 (371mm x 297mm(typ.) ratio 5:4)		
COLOUR	5000K~9300K		
POWER SOURCE	AC100-120/220-240V±10% 50/60Hz 140W (typ.) (155W (typ.) with USB operation)		
OPERATING ENVIRONMENT	Temperature	5 - 35°C	
	Humidity	10 - 90%RH (without condensation)	
DIMENSIONS	(W)19.5inch x (H)19.4inch x (D)18.6inch / (W) 495mm x (H) 493.5mm x (D) 473mm		
WEIGHT	Approx. 29.7kg (65.5 lbs.)		
TILT/SWIVEL BASE	Tilt Angle	-5° - +10°	
	Swivel Angle	±90°	
REGULATIONS	Safety	UL1950 (UL), CSA C22.2 No.950 (C-UL) EN60950 (TÜV-GS)	
	EMC	FCC Class-B, DOC Class-B EN55022 Class-B, VCCI Class-B, AS / NZS 3548 Class-B EN61000-3-2, EN61000-3-3, EN55024	
	X-Ray	DHHS, HWC, Röv vom 8.1, 1987	
	Other	CE-Marking, MPR-II/TCO'91 ISO9241-3, ISO9241-7, ISO9241-8 (TÜV-GS) TCO '99 International ENERGY STAR Program Energy 2000 Labeling Award Guidelines for the Suppression of Harmonics in Appliances and General-Use Equipment	

\* This monitor is registered / certified with Model No. NSZ2107STTUW.

# 7 APPENDIX

## 7.1 Monitor Signal Input Connector (DB9-15P)

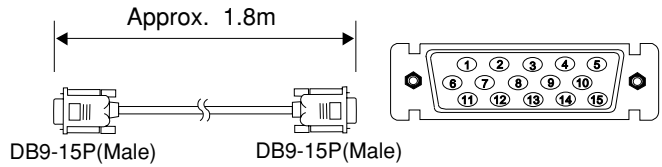


PIN ASSIGNMENTS

Pin No.	Signal
1	RED VIDEO
2	GREEN VIDEO
3	BLUE VIDEO
4	GROUND
5	DDC GROUND
6	RED GROUND
7	GREEN GROUND
8	BLUE GROUND
9	NC
10	SYNC GROUND
11	GROUND
12	SDA
13	HORIZONTAL SYNC or COMPOSITE SYNC
14	VERTICAL SYNC(VCLK)
15	SCL

DDC ..... DISPLAY DATA CHANNEL  
 SDA ..... SERIAL DATA  
 SCL ..... SERIAL CLOCK  
 NC ..... NO-CONNECTION

## 7.2 SC-B110 Signal Cable



PIN ASSIGNMENTS

Pin No.	Signal
1	RED
2	GREEN
3	BLUE
4	GROUND
5	DDC GROUND
6	RED GROUND
7	GREEN GROUND
8	BLUE GROUND
9	NC
10	SYNC GROUND
11	GROUND
12	SDA
13	HORIZONTAL SYNC
14	VERTICAL SYNC(VCLK)
15	SCL

DDC ..... DISPLAY DATA CHANNEL  
 SDA ..... SERIAL DATA  
 SCL ..... SERIAL CLOCK  
 NC ..... NO-CONNECTION

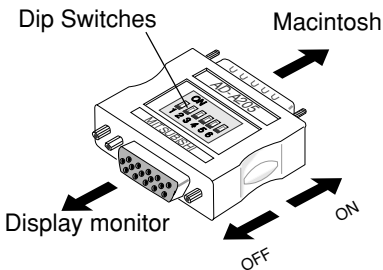
## 7.3 Optional Macintosh Adapter AD-A205 Settings

The AD-A205 Macintosh Adapter(option) allows you to take an advantage of the built in video capabilities of your Macintosh computer with the monitor.

- (1) Set the dip switches of the adapter, before connecting to the computer.

- (2) Set the dip switches according to the following chart. By using the following chart, you can choose a main resolution, quickly.

If you wish to use other resolutions, refer to the “AD-A205 Mac Adapter Setting Chart” on the next page.



Apple Macintosh	Switch ON	Switch Setting
Macintosh IIsi, IIfx, IIvx, LC, LC II	1,2	
Macintosh LC III, LC475, LC630	2,4	
Macintosh Quadra 610, 650, 700, 800, 840AV, 900, 950 Macintosh Centris 610, 650, 660AV	1,2,3,4	
Performa 6260, 6310, 6410, 6420 Power Macintosh 6100, 6100AV, 6200, 6300 Power Macintosh 7100AV, 7200, 7300, 7500, 7600 Power Macintosh 8100, 8100AV, 8500, 8600 Power Macintosh 9500, 9600 Workgroup Server 7350, 8150, 9150, 9650	1,2,6	
Power Macintosh 4400, G3	3,4	

## <Optional Macintosh AD-A205 Adapter Setting Chart>



● Set the dip switch "ON" as shown below. (Example; "1,2" )

RESOLUTION	Macintosh						Power Macintosh												
	Ilisi Ilvi	LC LCII	LCIII LC475	LC630	Quadra 700 900	Quadra 610 650 800 950 Centris 610 650	Quadra 840AV Centris 660AV	6260 6310	6410 6420	Workgroup Server 8150 9150	8100 VRAM Video Card (DB-15)	6200 6300	7200	4400	7300 7500 7600 8500 8600 Workgroup Server 7350	9500	9600/233 Workgroup Server 9650	9600/300 9600/350	G3
640 x480@60Hz	3,4	3,4	3,4	3,4	3,4	3,4	3,4	1,2,6	1,2,6	3,4	3,4	1,2,6	3,4	3,4	3,4	3,4	3,4	3,4	3,4
<b>640 x480@67Hz</b>	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	3,4	1,2,6	1,2,6	1,2,6	1,2,6	3,4
640 x480@72Hz														3,4					3,4
640 x480@75Hz														3,4					3,4
640 x480@85Hz								1,2,6	1,2,6			1,2,6	3,4	3,4	3,4	3,4	3,4	3,4	3,4
800 x600@60Hz				3,4															3,4
800 x600@72Hz				3,4			3,4	1,2,6	1,2,6		3,4	1,2,6	3,4	3,4	3,4	3,4	3,4	3,4	3,4
800 x600@75Hz																			3,4
800 x600@85Hz																			3,4
<b>832 x624@75Hz</b>			2,4	2,4	2,4	2,4	2,4	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	1,2,6	3,4	1,2,6	1,2,6	1,2,6	1,2,6	3,4
1024 x768@60Hz																			3,4
1024 x768@70Hz																			3,4
1024 x768@72Hz																			3,4
<b>1024 x768@75Hz</b>										1,2,6									3,4
1024 x768@85Hz																			3,4
<b>1152 x870@75Hz</b>																			3,4
1280 x960@60Hz																			3,4
1280 x960@75Hz																			3,4
1280 x960@85Hz																			3,4
1280 x1024@60Hz																			3,4
1280 x1024@75Hz																			3,4
1280 x1024@85Hz																			3,4
1600 x1200@60Hz																			3,4
1600 x1200@65Hz																			3,4
1600 x1200@67Hz																			3,4
1600 x1200@70Hz																			3,4
1600 x1200@75Hz																			3,4

1. The resolution does not change with the computer powered on when you set the dip switches. Be sure to power off the computer when you set the dip switches.
2. Set the dip switches by a pointed article like a pencil or ball point pen to touch end of the switch groove.

# 8

# WARRANTY

## IMPORTANT

Please keep this Warranty in a safe place.

It is valuable.

The benefits conferred by this Warranty are in addition to all other rights and remedies in respect of the product which the consumer has under the Trade Practices Act and similar State and Territory Laws.



PC and GRAPHIC  
MONITORS

3 YEAR WARRANTY

Please complete and keep with original purchase docket.

OWNER'S NAME: .....

ADDRESS: .....

CITY: ..... STATE: ..... POSTCODE: .....

MODEL No: ..... SERIAL No: .....

DATE OF PURCHASE: .....

INVOICE/SALES DOCKET No: .....

RETAILER'S NAME: .....

ADDRESS: .....

CITY: ..... STATE: ..... POSTCODE: .....

## OWNER RESPONSIBILITY

Before you request repair to the product under this Warranty please check the following to save you unnecessary expense. You will have to pay for attention to and correction of all faults or problems not related to the product.

**POWER:** Check that the power plug is pushed in and the power is switched on. If there is still no power check whether there is power at the power point by using another appliance.

**USER CONTROLS:** Ensure that they are set in accordance with the instructions in the Owner's Instruction Manual.

**INSTALLATION:** Make sure your product is correctly installed.

**INPUT SIGNAL:** Check that the input signal is connected and is the correct type for this product.

**RELOCATION:** This Warranty does not cover relocation or re-installation and set up of the product.

**BATTERIES:** This Warranty does not apply if the product is damaged by the use of exhausted, leaking or used batteries or fails to function correctly as a result of the use of such batteries.

### 1. This Warranty:

- a) covers the product described above against labour and faulty materials for a period of **three (3) years** from the date of purchase.
- b) covers replacement parts and repair labour provided under this Warranty for the remainder of the period of warranty for the product into which they are incorporated or applied.
- c) only covers the product if purchased in Australia and operated in Australia or its Territories.
- d) does not cover any consumable including accessories supplied with the product unless such item is shown to be defective when the product is first purchased by the consumer.
- e) does not cover relocation or re-installation and set up of the product.

### 2. This Warranty will not apply if:

- a) the product is damaged by the use of an accessory which is not supplied by Mitsubishi Electric Australia.

- b) the product is damaged by the use of a consumable which is not supplied by Mitsubishi Electric Australia or its recognised retailer and which consumable is not of an equivalent standard and quality.
- c) the product is damaged by exhausted, leaking or used batteries or fails to function correctly as a result of the use of such batteries.
- d) the product case is opened by a person other than Mitsubishi Electric Australia's recognised retailer or repairer, or the recognised retailer's repair agent.
- e) the cathode ray tube exhibits a burned-in image due to continued use without an effective PC screen saver.

**3. Under this Warranty:**

- a) product defects covered by this Warranty will be repaired, during normal business hours, at the premises of Mitsubishi Electric Australia's recognised retailer or repairer, or the recognised retailer's repair agent without cost to the owner for parts and repair labour or, at the option of Mitsubishi Electric Australia, the product will be replaced. (Contact the Mitsubishi Electric Australia office in your State for details of recognised repairers).
- b) the owner is responsible for all transport costs and intransit insurance costs if the product or part has to be returned for repair to Mitsubishi Electric Australia's recognised retailer or repairer, or the recognised retailer's repair agent. Whenever possible, the product should be returned in its original carton and packing or alternatively in packing suitable to prevent damage to the product. Mitsubishi Electric Australia will not accept responsibility for damage to the product caused by unsuitable or inadequate packing.
- c) the owner is at all times responsible for the repair of defects caused by accidental or intentional damage, improper voltage, fire, misuse, abuse, neglect, alterations by or negligence of the consumer, incorrect or incomplete installation or operation by the consumer, Acts of God, vermin or foreign matter entering the product, e.g. dirt and moisture. The OWNER RESPONSIBILITY list is provided to help in this regard. Refer to the Owner's Instruction Manual for operation and other information.

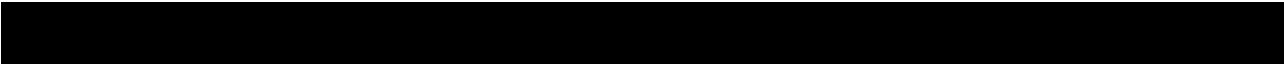
**4. For repair of the product under this Warranty:**

- a) the retailer or repairer should be contacted within thirty (30) days of the fault developing.
- b) this Warranty with the original purchase docket must be presented to Mitsubishi Electric Australia's recognised retailer or repairer or the recognised retailer's repair agent.

**5. Various warranties or conditions may be implied or obligations may be imposed on Mitsubishi Electric Australia by provisions of the Trade Practices Act 1974 and other laws in force in Australia. If any such provision applies, then to the extent permitted by law and to the extent that this Warranty is given in addition to such warranties or conditions, any liability under this Warranty is expressly limited to:**

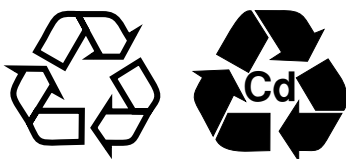
- a) in the case of products, the replacement of the product, the payment of the cost of replacing the product or of acquiring an equivalent product, at the discretion of Mitsubishi Electric Australia; and
- b) in the case of services, supplying the services again or the payment of the cost of having the services supplied again, at the discretion of Mitsubishi Electric Australia.

**6. This is the only Warranty given by Mitsubishi Electric Australia on this product. No other person or non-statutory organisation is authorised by Mitsubishi Electric Australia to vary the provisions and conditions of this Warranty.**



**IMPORTANT NOTICE**

This recycle symbol may appear on packaging material or components of this product.



This symbol is a mandatory requirement in some countries and does not necessarily indicate that the material can be recycled in Australia. The Plastic Identification Code (numbers 1 to 7 in a “chasing arrows triangle”) may also appear on packaging material or components for this product.



This symbol is designed to identify the resin type used in the manufacture of the material on which it appears. It does not indicate that the material is recyclable.

If you have any questions on the recyclability of any materials please contact the Mitsubishi Electric Australia office in your state.

<b>MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD.</b>		
(INCORPORATED IN NEW SOUTH WALES)		
A.B.N. 58 001 215 792		
<p><b>New South Wales</b> 348 Victoria Road, Rydalmere NSW 2116 Phone: (02) 9684 7777</p>	<p><b>Queensland</b> Unit 1, 104 Newmarket Road, Windsor QLD 4030 Phone: (07) 3357 8877</p>	<p><b>Western Australia</b> Unit 5, 329 Collier Road, Bassendean WA 6054 Phone: (08) 9377 3400</p>
<p><b>South Australia/ Northern Territory</b> 77 Port Road, Hindmarsh SA 5007 Phone: (08) 8340 2000</p>	<p><b>Victoria/ Tasmania</b> Unit 4, 303 Burwood Highway, East Burwood VIC 3151 Phone: (03) 9262 9855</p>	
<p><a href="http://www.mitsubishi-electric.com.au">www.mitsubishi-electric.com.au</a></p>		

CP871C202A10

**Declaration of Conformity - United States only**

Product Name: 22 in. Color Display Monitor  
Type: NSZ2107STTUW  
Brand Name: MITSUBISHI

This device complies with Part 15 of the 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.

For questions regarding this declaration, contact:  
NEC-Mitsubishi Electronics Display of America, Inc.  
1250 North Arlington Heights Road, Itasca, Illinois 60143-1248, U.S.A.

or, call  
(630) 467-5000

To identify this product, refer to the model number found on the product.

As an ENERGY STAR Partner, NEC-Mitsubishi Electronics Display of America, Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.