SAMSUNG

SyncMaster 750ST
Color Monitor

**Owner's
Instructions**

Safety Instructions

1 Before connecting the AC power cord to an outlet, make sure the voltage designation on your monitor corresponds to the local electrical supply.

2 Never insert anything metallic into the monitor openings. Doing so may create the danger of electric shock.

3 To avoid electric shock, never touch the inside of the monitor. Only a qualified technician should open the monitor's case.

4 Never use your monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.

5 Be sure to hold the plug, not the cord, when disconnecting the monitor from an electric socket.

6 Openings in the monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the monitor on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.

7 Put your monitor in a location with low humidity and a minimum of dust.

8 Do not expose the monitor to rain or use it near water (in kitchens, near swimming pools, etc.). If the monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the monitor with a damp cloth when necessary, but be sure to unplug the monitor first.

9 Place the monitor on a solid surface and treat it carefully. The screen is made of glass and can be damaged if dropped, hit or scratched.

10 Locate your monitor near an easily accessible AC outlet.

11 If your monitor does not operate normally – in particular, if there are any unusual sounds or smells coming from it – unplug it immediately and contact an authorized dealer or service center.

12 High temperatures can cause problems. Don't use your monitor in direct sunlight, and keep it away from heaters, stoves, fireplaces, and other sources of heat.

13 Unplug the monitor when it is going to be left unused for an extended period of time.

14 Unplug your monitor from the AC outlet before any service.

⚠	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN	⚡
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Table of Contents

English   1
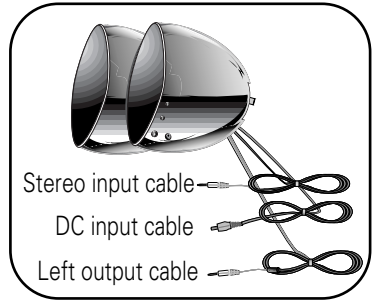
Your New Monitor

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

Manual

Monitor

Stereo input cable
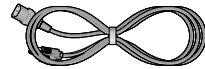
DC input cable

Left output cable

Speaker Assembly

Warranty Card
(Not available in all locations)

Driver Installation Diskette
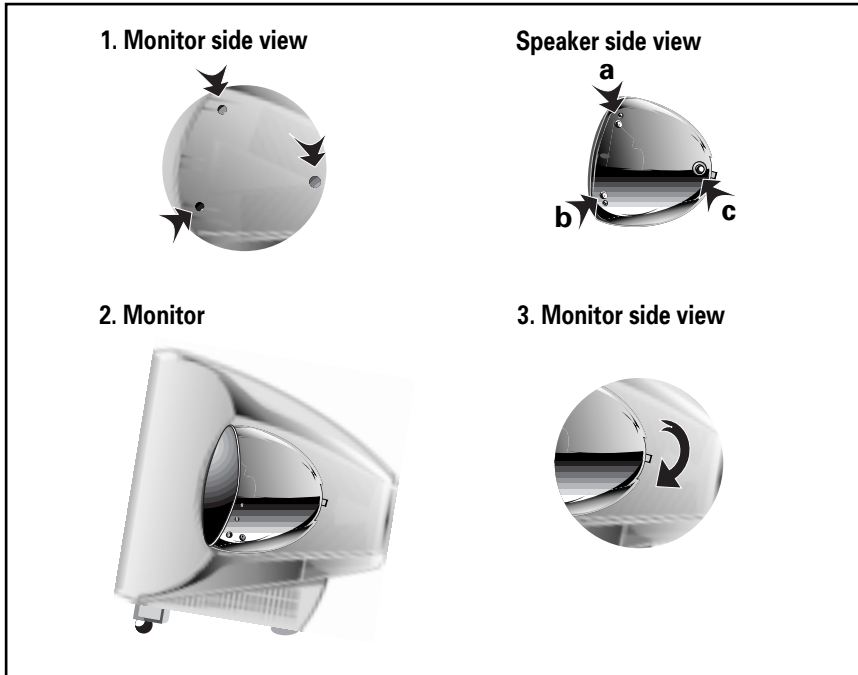(Not available in all locations)

Stand Feet

Power Cord

Speaker Assembly

1. Monitor side view

Speaker side view

a

b   c

2. Monitor

3. Monitor side view

1   Prepare left and right speakers for each side of the monitor.
(Note: Left and right speakers are not identical.)

2   Install the two retainers (a, b) at the two front-most holes on left and right side of the monitor and then put a third retainer (c) in the rear-most hole on left and right side of the monitor.

3   Verify proper speakers fit and then lock the speakers onto both sides of the monitor by pushing down on the rear lever.

4   When disassembling, lift the lever up and take the speakers off the monitor.

Connecting Your Monitor & Speakers
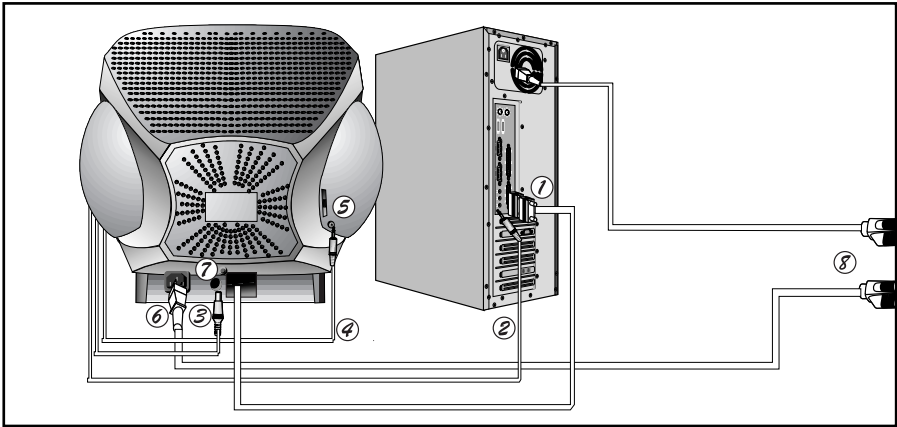
Caution : Turn the power off to the monitor, computer and speakers before connecting or disconnecting the speakers.

1 Signal cable
Connect the end of the signal cable to your computer's video port. If you are using a Macintosh computer, connect the cable to a Macintosh adapter, and set the pins on your adapter (adapter not included). A PC-compatible computer does not need an adapter.

2 Stereo input cable
Connect this cable to your sound card or computer

3 DC input cable
Connect this cable to DC output port on the back of your monitor.

4 Left output cable
Connect this cable to L- input port on the back of the left side speaker.

5 L-input port
Connect the left output cable from right speaker here.

6 Power port
Connect the power cord for your monitor to the power port on the back of the monitor.

7 DC output port
Connect DC input cable here.

8 Power cords
Plug the power cord for the monitor and the power cord for your computer into a nearby outlet.

9 Turn on your computer and monitor. If your monitor displays an image, installation is complete.

10 Install the monitor driver

• Insert the provided diskette into the A drive.
• Double click the "install.exe" file.

Control Viewing Angle
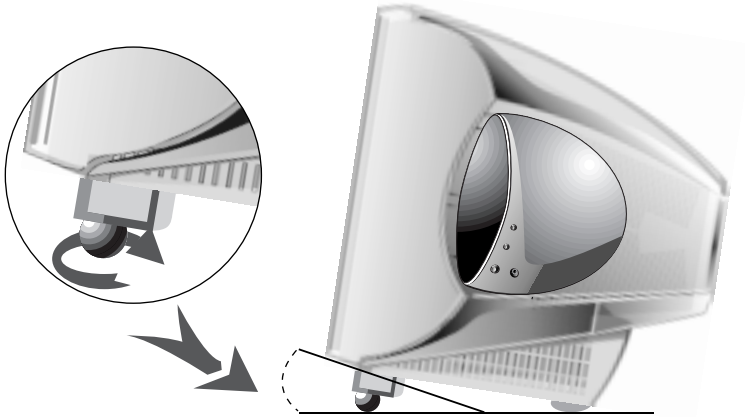
Control the viewing angle to allow the user optimum viewing. (This monitor can tilt up and down from 4 to 11 degrees.)

Control

1 Turn the stand feet underneath the monitor to control viewing angle. Refer to the illustrations above.

2 Turn left to lower viewing angle and turn right to raise viewing angle.

Multimedia Speakers

Right Speaker

1 **Power button**
Push the power button to turn sound on/off for the multimedia speakers.

2 **BBS button**
Push the BBS (bass boost sound) button to amplify a specific frequency band for audio. (The BBS purpose is to amplify 6-8 dB at 100 Hz band. Therefore, the amplification provided by the BBS is dependant on input signal.)

3 **Volume**
Use this button to control the sound volume when speakers are on.

4 **Headphone port**
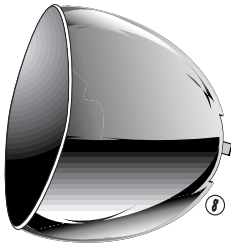To listen in privacy, connect headphones here.

5 **Stereo input cable**

6 **DC input cable**
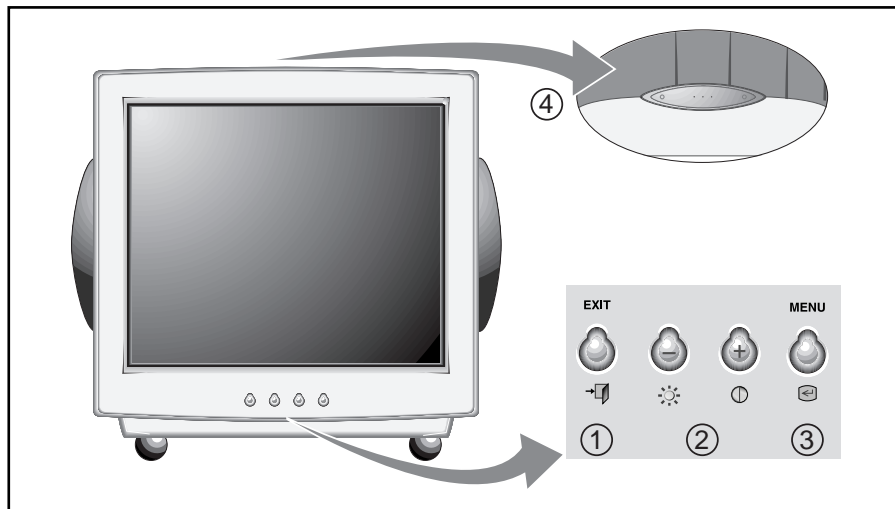
7 **Left output cable**

Left Speaker

8 **L - input port**
Connect the left output cable from right speaker here.

Front Panel

1 **EXIT (→❚) button**
Closes the on-screen menu. It is also used to return to the previous menu when using the on-screen menu system.

2 **The ⊖ / ⊕ (☼ / ◑) buttons**
These buttons allow you to select and adjust items using the on-screen menu. When adjusting an item using the on-screen menu, the ⊖ button lowers the value of the selected function. The ⊕ button raises the value of the selected function. These buttons are also direct access buttons for the Contrast and Brightness feature controls. (See the section below on Direct Access Buttons.)

3 **MENU (⇐) button**
Opens the on-screen menu. It is also used to select a highlighted function, open a sub-menu, or move between menus when using the on-screen menu system.

4 **Power button** ⬭
The power button turns the monitor on and off. The power indicator light glows green during normal operation, see page15.

Direct Access Buttons
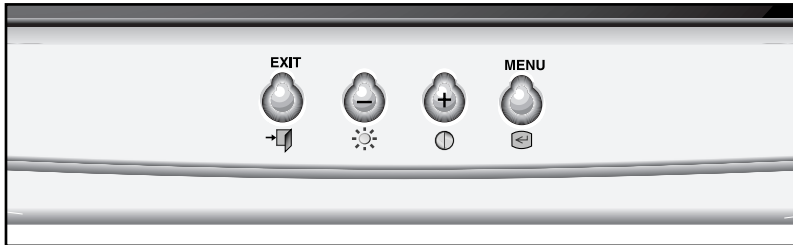
Most of the adjustments you make to your monitor will be accessed through the on-screen menu described in the next section. The Contrast and Brightness features can also be accessed directly from the front of your monitor.

1 With the menu off, press the ☼ or ◑ button on the front of your monitor. The ☼ button accesses the Brightness feature. The ◑ button accesses the Contrast feature.

2 Push the ⊕ button to increase or the ⊖ button to decrease the value of the selection.

3 Press the EXIT button →◲ twice to exit the on-screen menu.

On-screen Menu System

Your monitor has an on-screen menu system, accessed by the buttons on the front of your monitor, that allows you to adjust characteristics of the screen image. Display changes are indicated by on-screen adjustment icons. Some functions have sub-menus.

1 Push the menu button ⎯ to display the main menu.
Function icons are arranged across the top of the on-screen menu.

2 Push the ⊕ or ⊖ button to move through the icons.
The name of the function will appear below the rows of function icons.

3 To select a function or open a sub-menu, push the ⎯ button. The screen will display the options for adjustment. If there is a sub-menu, use the ⊕ or ⊖ button to highlight the feature you want to adjust, then push the ⎯ button to select it.

4 Use the ⊕ and ⊖ buttons to make adjustments. ⊕ increases values and ⊖ decreases values. On-screen calibration numbers show the effect of your adjustment. If you are in a sub-menu, use the EXIT button →⫿ to return to the previous menu.

5 Push the EXIT button →⫿ to exit and save your changes
.

Function icons

Active function

Adjustment icons

Function selection and Menu navigation

Brightness

⎯ **: Access Function**

→⫿ **: Exit Menu**

Icon	Monitor Function Control

Brightness
Background brightness of screen.
— Decreases brightness
+ Increases brightness

Brightness

☼   ☼

⊡ : **Access Function**

Contrast
Contrast of screen image.
— Decreases contrast
+ Increases contrast

Contrast

◑   ◑

⊡ : **Access Function**

Horizontal Position
Horizontal screen position.
— Moves screen left
+ Moves screen right

H-Position

⊞   ⊞

⊡ : **Access Function**

Vertical Position
Vertical screen position.
— Moves screen down
+ Moves screen up

V-Position

⊟   ⊟

⊡ : **Access Function**

Horizontal Size
Horizontal screen size.
— Decreases size
+ Increases size

H-Size

⊞   ⬌

⊡ : **Access Function**
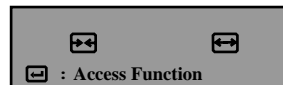
Vertical Size
Vertical screen size.
— Decreases size
+ Increases size

V-Size

⬍   ⬍

⊡ : **Access Function**
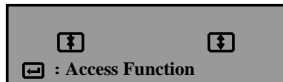
Icon	Monitor Function Control

Pincushion

Straightens screen vertical edges.
— Curves image inward
+ Curves image outward

Pincushion

⬛ : Access Function

Geometry

Trapezoid

Width of top and bottom of screen.
— Widens bottom of screen
+ Widens top of screen

Geometry

1. ⬛ :Access Function
   ⬛ :Exit Menu

Parallelogram
— Skews screen image left
+ Skews screen image right

Rotation
— Rotates entire screen left
+ Rotates entire screen right

Trapezoid

2. + - :Select Function
   ⬛ :Previous Menu

Pinbalance
— Curves vertical lines to left
+ Curves vertical lines to right

V-Linearity
— Compresses image at top of screen
+ Compresses image at bottom of screen
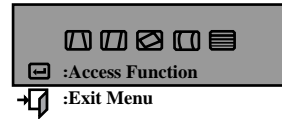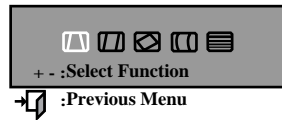
Operation

Icon	Monitor Function Control

Language
— and + scroll through on-screen
language options.
(English/ Deutsch/ Francais/ Italiano
Português/ Español/ Svenska/ Russian/
Korean)

Language
1 2 3 4 5 6 7 8 9
◄ –   English   + ►
⊟ :Access Function
→⏻ :Exit Menu
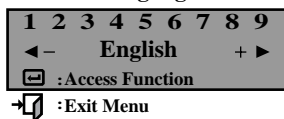
Advanced

H- Moiré
Corrects for on-screen moiré
pattern.
— and + clear Horizontal Moiré

Advanced
1.
⊟ : Access Function
→⏻ : Exit Menu

V- Moiré
Corrects for on-screen moiré
pattern.
— and + clear Vertical Moiré

H-Moiré
2.
+ - : Select Function
→⏻ : Previous Menu

Video Input Level
Selects the video signal level
— Select 0.7 V
+ Select 1.0 V

Color Temperature
— 9300k more blue
+ 6500k more red

Halftone
— Off
+ On

English   12

Icon	Monitor Function Control

Zoom
- – Reduces view of display area
- + Enlarges view of display area

Zoom

⊠

⊟ : **Access Function**

Degauss
Removes color distortion caused by magnetic fields. Do not use more than once in 30 minutes.

Degauss

⊗

⊟ : **Access Function**

Recall
Returns monitor to original settings.
- – No
- + Yes

Recall

▸□◂

⊟ : **Access Function**

Display Timing
Monitor display settings.
- – Factory timing
- + User timing

Display Timing

60.1KHz 75Hz NN

⊟ : **User Mode**
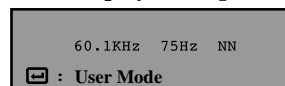
OSD Lock/Unlock
Allows you to secure the current control settings so that they cannot be inadvertently changed. You can unlock the OSD controls at any time by using the same procedure.
- ■ Push and hold the Menu (⇦) button for 10 seconds or more to Lock or to Unlock.

OSD Lock/Unlock

Control Lock

Locked

Troubleshooting

Before calling for service, check the information in this section to see if you can solve the problem yourself. If you do need assistance, please call the phone number on the warranty card, the phone number on the back cover of this manual, or contact your dealer.

There is no screen image
- Check to see that both the monitor and the computer are plugged in and turned on.

"No Connection, Check Signal Cable" appears
- Check the signal cable connection between the computer and the monitor.

"Sync. Out of Range" appears
- The input signal frequency is over or under the synchronization range of the monitor, see "Specifications" on page 16.

The screen image is too light or too dark
- Adjust the brightness or contrast settings, see page 10.

The screen image is too large or too small
- Adjust the size settings, see H-size and V-Size on page 10.
- Adjust the Zoom setting, see page 13.

The colors are distorted with dark or shadowed areas
- Activate the degauss feature, see page 13.
- Adjust the color temperature, see page 12.

The power indicator light is blinking green
- The monitor is using its power management system, see "PowerSaver" on page 15.

You need the monitor driver software
- Download the driver from the internet at
  http://www.samsungelectronics.com/support/downloads/monitor/index.html

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you move the computer's mouse or press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPMS compliant video card installed in your computer. Use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power Saving function mode EPA/NUTEK		
		Standby mode	Suspend mode Position A1	Power-off Mode Position A2
Power Indicator	Green	Green, Blinking (0.5 sec. interval)	Green, Blinking (0.5 sec. interval)	Green, Blinking (1 sec. interval)
Power Consumption	90 W (Maximum) 75 W (Nominal)	55 W (Nominal)	Less than 15 W	Less than 3 W

NOTE: *This monitor is EPA Energy Star® compliant and NUTEK compliant when used with a computer equipped with VESA DPMS functionality.*

Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync. Polarity (H/V)
IBM, VGA2, 720 x 400	31.469	70.087	28.322	–/+
IBM, VGA3, 640 x 480	31.469	59.940	25.175	–/–
VESA, 640 x 480	37.500	75.000	31.500	–/–
VESA, 640 x 480	43.269	85.008	36.000	–/–
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	53.674	85.061	56.250	+/+
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1024 x 768	68.677	84.997	94.500	+/+

Specifications

Specifications	Model: SyncMaster 750ST
Picture Tube	• 17″ (43 cm) Full square type [16″ (40.6 cm) Viewable] • 90° Deflection • Dot pich: 0.24 mm (H) / 0.14 mm (V) • Silica coated with anti-electrostatic properties (TCO: Multilayer coating) • Medium-short persistence phosphor
Synchronization	• Horizontal: 30 kHz to 70 kHz • Vertical: 50 Hz to 160 Hz
Display Color	• Unlimited
Maximum Resolution	• 1280 Dots • 1024 Lines
Active Display	• Horizon tal: 12.0 ± 0.16 inch (306.0 ± 4 mm) • Vertical: 9.1 ± 0.16 inch (230.5 ± 4 mm)
Input Signal, Terminated	• Analog: .7 Vpp positive at 75 ohms • Separate Sync.: TTL level, positive or negative
Maximum Pixel Clock	• 110 MHz
Power Supply	• AC 100-240 V ± 10%, 60 Hz / 50 Hz ± 3 Hz
Power Consumption	• 90 W maximum

Dimensions/Weight (WxDxH)	• Unit (Without Speakers): 16.53 x 16.88 x 15.86 inch / 35.3 lbs.
	                                 (420 x 429 x 403 mm /16.0 kg)
	          (With Speakers): 20.19 x 16.88 x 15.86 inch / 37.5 lbs.
	                                 (513 x 429 x 403 mm / 17.0 kg)
	• Carton (With Speakers): 21.02 x 21.73 x 21.02 inch / 44.1 lbs.
	                                 (534 x 552 x 534 mm / 20.0 kg)

Tilt	• Min: 4° • Max: 11°

Environmental Considerations	• Operating temperature: 32°F to 104°F (0°C to 40°C)
	              Humidity: 10% to 80%
	• Storage temperature: -4°F to 113°F (-20°C to 45°C)
	              Humidity: 5% to 95%

Design and specifications are subject to change without notice.

Index

Regulatory Information

FCC Information
User Instructions
The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

Note: 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 receptions, 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.

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

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

Warning
User must use shielded signal interface cables to maintain FCC compliance for the product.

Declaration of conformity for products Marked with FCC Logo
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.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
85 West Tasman Drive
San Jose, CA 95134 USA
Tel) 408-544-5124
Fax) 408-544-5191

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, make sure 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 voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemont ICES-003 sur les équipements produisant des interférences au Canada.

MPR II Compliance
This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

European Notice
Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

■ EN55022 (CISPR 22) – Radio Frequency Interference
■ EN50082-1 : 1992 – Electromagnetic Immunity
■ EN60555-2 (IEC555-2) – Power Line Harmonics
■ EN60555-3 (IEC555-3) – Voltage Fluctuations
■ EN60950 (IEC950) – Product Safety.

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