

COMPAQ

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User's Guide

Compaq S710 Color Monitor

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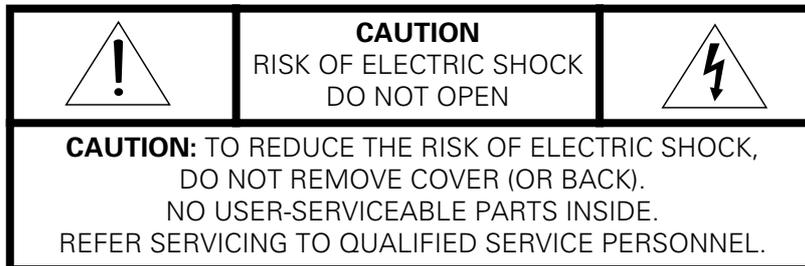
Compaq S710 Color Monitor



154821-A71

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.



Notice

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User's Guide **Compaq S710 Color Monitor**

First Edition (August 1999)
Part Number 154821-001

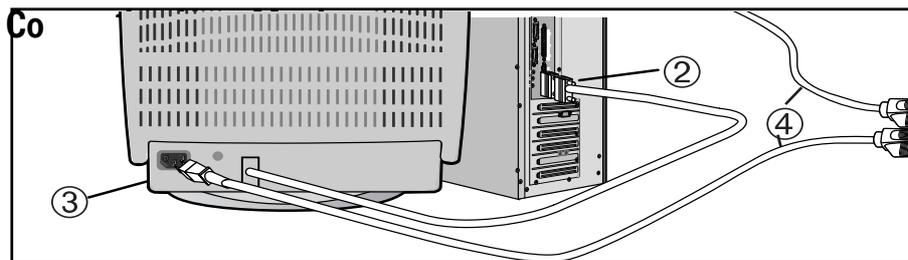
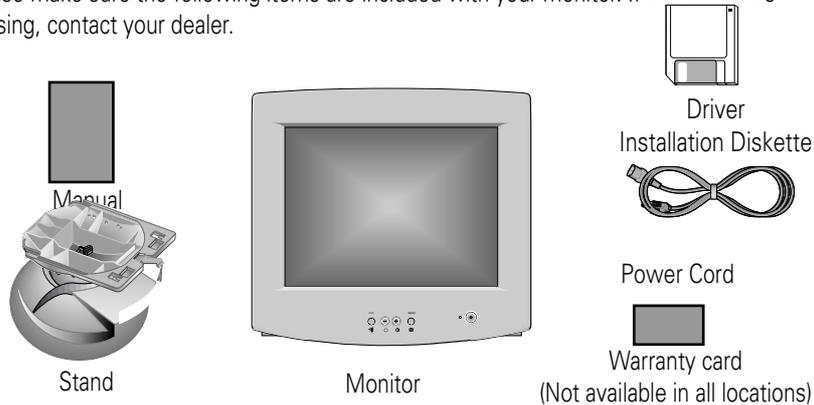
Compaq Computer Corporation

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Your New Monitor

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



- 1** Turn off your computer and unplug the power cord.
- 2** **Signal cable**
Connect the end of the signal cable to your computer's video port (Video board, video card, or graphics card). 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.
- 3** **Power port**
Connect the power cord for your monitor to the power port on the back of the monitor.
- 4** **Power cords**
Plug the power cord for the monitor and the power cord for your computer into a nearby outlet.
- 5** Turn on your computer and monitor. If your monitor displays an image, installation is complete.
- 6** **Install monitor driver**
 - Insert the provided diskette into the A drive.
 - Open Read Me file. Follow instructions.

Your New Monitor

Adding a Compaq Powered USB Hub

The monitor base is designed to house an optional Compaq powered USB hub. The Compaq powered USB hub is not included with the monitor; it is sold separately. For information on purchasing the Compaq powered USB hub (part. No. 138638-xxx), call your Compaq authorized dealer, seller, or reseller. To locate a reseller near you, call Compaq at 1-800- AT-COMPAQ or visit the Compaq web site at <http://www.compaq.com>



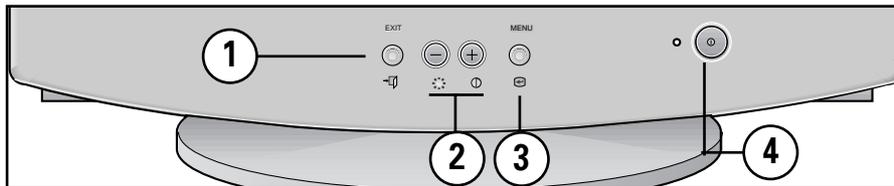
The following are required to operate the USB hub:

- Your computer must be fitted with a USB port.
- Your computer must have Microsoft Windows 95 OSR2.1 or later, or Microsoft Windows 98 as the operating system.

USB connectors are used to connect USB-compatible Plug and Play devices such as a keyboard, mouse or joystick to the hub.

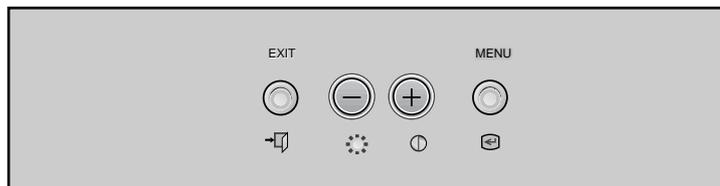
Your New Monitor

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
- 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 page 10

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.

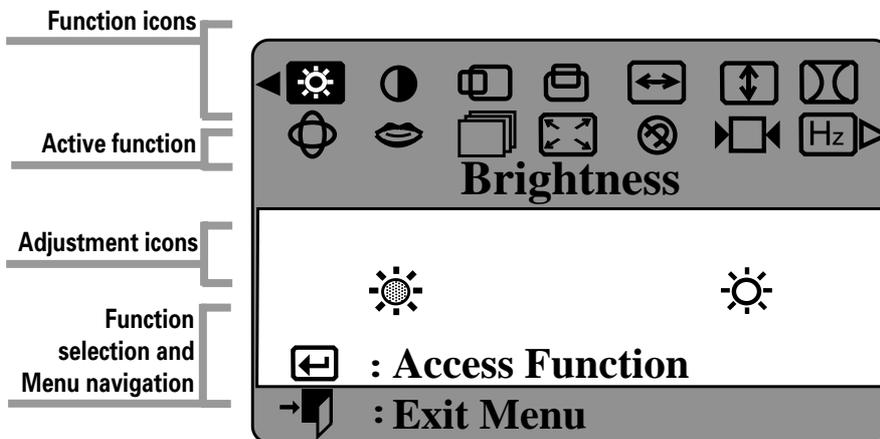
- 1** With the menu off, press the ☀ or ● button on the front of your monitor. The ☀ button accesses the Brightness feature. The ● button accesses the Contrast feature.
- 2** Push the (+) button to increase or the (-) button to decrease the value of the selection.
- 3** Press the EXIT button → twice to exit the on-screen menu.

Operation

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.

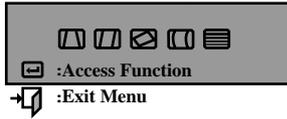
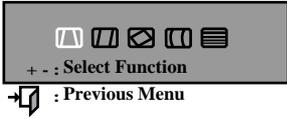
- 1** Push the menu button  to display the main menu. Function icons are arranged across the top of the on-screen menu.
- 2** Push the  or  button to move through the icons. The name of the function will appear below the rows of function icons.
- 3** To select a function or open a sub-menu, push the  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.



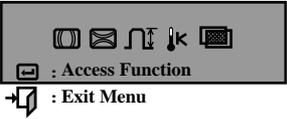
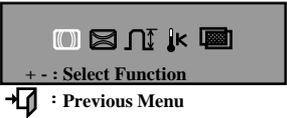
Operation

Icon	Monitor Function Control	
	Brightness Background brightness of screen. – Decreases brightness + Increases brightness	
	Contrast Contrast of screen image. – Decreases contrast + Increases contrast	
	Horizontal Position Horizontal screen position. – Moves screen left + Moves screen right	
	Vertical Position Vertical screen position. – Moves screen down + Moves screen up	
	Horizontal Size Horizontal screen size. – Decreases size + Increases size	
	Vertical Size Vertical screen size. – Decreases size + Increases size	

Operation

Icon	Monitor Function Control	
	Pincushion Straightens screen vertical edges. – Curves image inward + Curves image outward	 <p>Pincushion</p> <p>☐ : Access Function</p>
	Geometry	
	Trapezoid Width of top and bottom of screen. – Widens bottom of screen + Widens top of screen	 <p>Geometry</p> <p>☐ : Access Function</p> <p>→☐ : Exit Menu</p>
	Parallelogram – Skews screen image left + Skews screen image right	
	Rotation – Rotates entire screen left + Rotates entire screen right	 <p>Trapezoid</p> <p>+ - : Select Function</p> <p>→☐ : Previous Menu</p>
	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)	 <p>Language</p> <p>1 2 3 4 5 6 7 8 9</p> <p>← English →</p> <p>[Access Function]</p> <p>[Exit Menu]</p>
	Advanced	
	H- Moire Corrects for on-screen moiré pattern. – and + clear Horizontal Moiré	 <p>1.</p> <p>[H-Moire] [V-Moire] [Video Input Level] [Color Temperature] [Halftone]</p> <p>[Access Function]</p> <p>[Exit Menu]</p>
	V- Moire Corrects for on-screen moiré pattern. – and + clear Vertical Moiré	 <p>2.</p> <p>[H-Moire] [V-Moire] [Video Input Level] [Color Temperature] [Halftone]</p> <p>[Select Function]</p> <p>[Previous Menu]</p>
	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	

Operation

Icon	Monitor Function Control	
	Zoom – Reduces view of display area + Enlarges view of display area	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Zoom   : Access Function </div>
	Degauss Removes color distortion caused by magnetic fields. Do not use more than once in 30 minutes.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Degauss   : Access Function </div>
	Recall Returns monitor to original settings. – No + Yes	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Recall   : Access Function </div>
	Display Timing Monitor display settings. – Factory timing + User timing	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Display Timing 60.1KHz 75Hz NN  : User Mode </div>
	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.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> OSD Lock/Unlock Control Lock <div style="background-color: gray; color: white; padding: 2px; display: inline-block;">Locked</div> </div>

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 12.

The screen image is too light or too dark

- Adjust the brightness or contrast settings, see page 6.

The screen image is too large or too small

- Adjust the size settings, see H-size and V-Size on page 6.
- Adjust the Zoom setting, see page 9.

The colors are distorted with dark or shadowed areas

- Activate the degauss feature, see page 9.
- Adjust the color temperature, see page 8.

The power indicator light is blinking green

- The monitor is using its power management system, see “PowerSaver” on page 11.

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: S710
Picture Tube	<ul style="list-style-type: none"> •17" (43 cm) Full square type (40.6 cm Viewable) •90° Deflection •0.28 mm Dot pitch •Silica coated with anti-electronic properties (TCO: Multilayer coating) •Medium-short persistence phosphor
Synchronization	<ul style="list-style-type: none"> •Horizontal: 30 kHz to 70 kHz •Vertical: 50 Hz to 160 Hz
Display Color	•Unlimited
Maximum Resolution	•1280 Dots •1024 Lines
Active Display	<ul style="list-style-type: none"> •Horizontal: 12.0 ± 0.16 in (306.0 ± 4 mm) •Vertical: 9.1 ± 0.16 in (230.5 ± 4 mm)
Input Signal, Terminated	<ul style="list-style-type: none"> •Analog: .7 Vpp positive at 75 ohms •Separate Sync.: TTL level, positive or negative
Maximum Pixel Clock	•110 MHz
Power Supply	AC 100-240 Volt ± 10%, 60 Hz/50Hz ± 3Hz
Power Consumption	•90 Watt maximum
Dimensions/Weight (WxDxH)	<ul style="list-style-type: none"> •Unit:: 16.22 x 16.54 x 16.36 in/33.1 lbs. (412 x 420 x 415.5 mm/15.0 kg) •Carton: 21.02 x 21.73 x 18.39 in/38.6 lbs. (534 x 552 x 467 mm/17.5 kg)
Environmental Considerations	<ul style="list-style-type: none"> •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.

Care and Maintenance

This section explains how to care for and maintain your Compaq monitor during normal everyday use.

Protecting the Monitor

To protect your monitor from overheating and other types of damage, follow these suggestions:

- Use only a power source and connection appropriate for this monitor, as indicated on the marking label/back plate.
- If an extension cord or power strip is used, make sure that the cord or strip is rated for the product and that the total ampere ratings of all products plugged into the extension cord or power strip do not exceed 80% of the extension cord or strip ampere ratings limit.
- Do not overload an electrical outlet, power strip, or convenience receptacle. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip input rating.
- Install the monitor near an outlet that you can easily reach. Disconnect the product by grasping the plug firmly and pulling it from the outlet. Never disconnect it by pulling the cord.
- Unplug the monitor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Do not place plants on top of the monitor. Water or dirt from the plant may fall into the vents.
- Do not drop the monitor or place it on an unstable surface.
- Do not allow anything to rest on the power cord. Do not walk on the cord.
- Keep the monitor in a well-ventilated area, away from excessive light, heat, and moisture.
- In a two-monitor system, place the monitors as far apart from each other as possible to lessen interference between them.
- Do not open the monitor cabinet or attempt to service this product yourself. Adjust only those controls that are covered by the operating instructions. If the monitor is not operating properly or has been dropped or damaged, contact your Compaq authorized dealer, reseller, or service provider.

Care and Maintenance

Cleaning the Monitor

To clean the monitor, follow these steps:

- 1 Turn off the monitor and the computer.
- 2 Dust the monitor by wiping the screen and the cabinet with a soft, clean cloth.

If the screen requires additional cleaning, use any antistatic CRT screen cleaner.



CAUTION: Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor.

Shipping the Monitor

Keep the original packing box in a storage area. You may need it later if you move or ship your monitor.

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:

For questions regarding your product, contact:

Compaq Computer Corporation
P.O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call 1-800-652-6672 (1-800-OK COMPAQ)

For questions regarding this FCC declaration, contact:

Compaq Computer Corporation
P.O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call (281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.

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 6015P type (tandem blades) plug cap.

Canadian Notice

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

Avis Canadien

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

Japanese Notice

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Regulatory Information

German Ergonomics Notice

Compaq Computers, when tested with the Compaq PE1030 Series monitors, were evaluated and found compliant to the requirements of ZH 1/618 (German Safety Regulations for Display Work Places in the Office Sector).

EPA ENERGY STAR Compliance

Monitors that are marked with the ENERGY STAR Logo meet the requirements of the EPA ENERGY STAR program. As an ENERGY STAR Partner, Compaq Computer Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency. Specific details on using the Energy Saving features can be found in the energy saver or power management section of the computer manual.

Power Cord Set Requirements

If you were not provided with a power cord for your monitor, you should purchase a power cord that is approved for use in your country. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the diameter of the wire must be a minimum of 0.75 mm or 18AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact your Compaq authorized service provider.

A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

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