

COMPAQ

User's Guide

Compaq V710 Color Monitor

COMPAQ

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The following word and symbols mark special messages throughout this guide:



WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

User's Guide

Compaq V710 Color Monitor

First Edition (May 2000)
Part Number 191716-001

Compaq Computer Corporation

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.



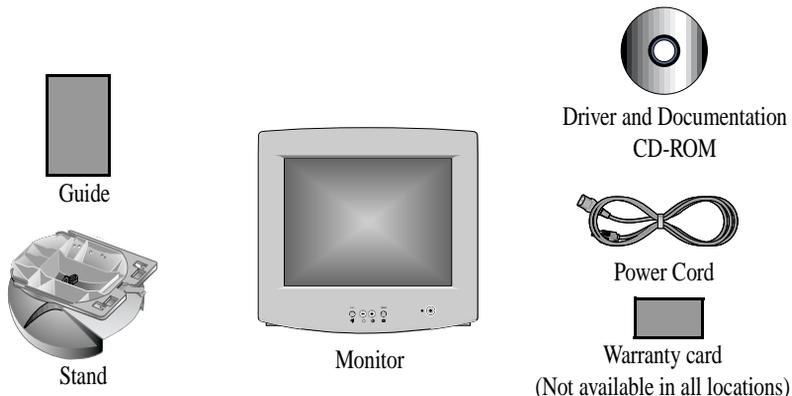
CAUTION
RISK OF ELECTRIC
SHOCK
DO NOT OPEN



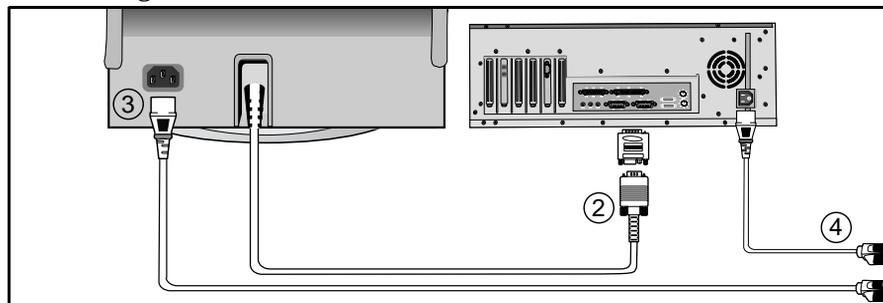
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Compaq V710 Color Monitor

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



Connecting Your Monitor

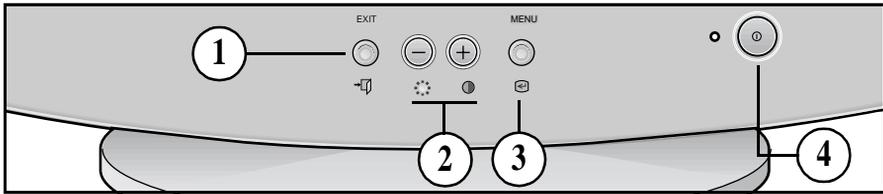


- 1** Turn off your computer and unplug the power cord.
- 2** **Signal cable**
Connect the end of the signal cable to your computer's video port (Video board, video card, or graphics card).
- 3** **Power port**
Connect the power cord for your monitor to the power port on the back of the monitor.

- 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 CD-ROM.
 - Refer to the Readme file on the CD-ROM.

Compaq V710 Color 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 feature controls. (See the section below on Direct Access Buttons.)

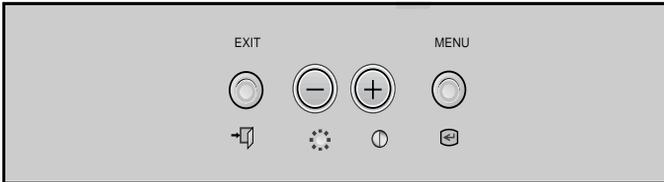
3 MENU (←) button

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.

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.



Operation

Icon Monitor Function Control



Brightness

Background brightness of screen.

-- Decreases brightness

+ Increases brightness

Brightness



Contrast

Contrast of screen image.

-- Decreases contrast

+ Increases contrast

Contrast



Horizontal Position

Horizontal screen position.

-- Moves screen left

+ Moves screen right

H-Position



Vertical Position

Vertical screen position.

-- Moves screen down

+ Moves screen up

V-Position



Horizontal Size

Horizontal screen size.

-- Decreases size

+ Increases size

H-Size



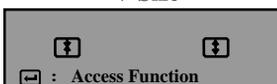
Vertical Size

Vertical screen size.

-- Decreases size

+ Increases size

V-Size



Operation

Icon Monitor Function Control



Pincushion

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

Pincushion



Geometry



Trapezoid

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



Parallelogram

- Skews screen image left
- + Skews screen image right



Rotation

- Rotates entire screen left
- + Rotates entire screen right



Pinbalance

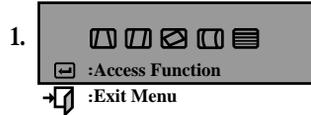
- Curves vertical lines to left
- + Curves vertical lines to right



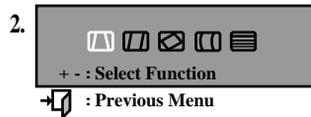
V-Linearity

- Compresses image at top of screen
- + Compresses image at bottom of screen

Geometry



Trapezoid



Operation

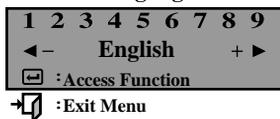
Icon Monitor Function Control



Language

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

Language



Advanced



H- Moiré

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

Advanced



V- Moiré

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

H-Moiré



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

Zoom



Degauss

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

Degauss



Recall

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

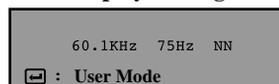
Recall



Display Timing

- Monitor display settings.
- Factory timing
 - + User timing

Display Timing



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



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 contact your dealer or refer to the *Contacting Customer Support* booklet that shipped with this product.

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.

The screen image is too light or too dark

- Adjust the brightness or contrast settings.

The screen image is too large or too small

- Adjust the size settings, see H-size and V-Size.
- Adjust the Zoom setting.

The colors are distorted with dark or shadowed areas

- Activate the degauss feature.
- Adjust the color temperature.

The power indicator light is blinking green

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

You need the monitor driver software

- Refer to the Readme file on the CD-ROM that shipped with this product.

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.

PowerSaver

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	100 W (Maximum) 90 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	31.50	70.00	28.00	-/+
IBM, VGA3, 640 x 480	31.50	60.00	25.00	-/-
VESA, 800 x 600	53.70	85.00	56.30	+/+
VESA, 1024 x 768	48.40	60.00	65.00	-/-
VESA, 1024 x 768	60.00	75.00	78.75	+/+
VESA, 1024 x 768	68.70	84.99	94.50	+/+
VESA, 1280 x 1024	80.00	75.00	135.00	+/+
VESA, 1600 x 1200	81.25	65.00	175.50	+/+

Specifications

Specifications	Model: Compaq V710 Color Monitor
Picture Tube	<ul style="list-style-type: none"> • 17" (43 cm) Full square type [16"(40.6 cm)Viewable] • Flat face, 90° Deflection • Dot pitch: 0.20 mm (Horizontal)/0.24mm(Diagonal) • TCO: Multilayer coating ~ anti-static, anti-reflection properties • Medium-short persistence phosphor
Synchronization	<ul style="list-style-type: none"> • Horizontal: 30 kHz to 85 kHz • Vertical: 50 Hz to 160 Hz
Display Color	• Unlimited
Maximum Resolution	• 1600 Dots (H), 1200 Lines (V) @ 60 Hz
Active Display	<ul style="list-style-type: none"> • Horizontal: 12.3 ± 0.16 inch (312 ± 4 mm) • Vertical: 9.2 ± 0.16 inch (234 ± 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	• 175 MHz
Power Supply	• AC 100-240 V ± 10%, 60 Hz / 50 Hz ± 3 Hz
Power Consumption	• 100 W maximum
Dimensions / Weight (W x D x H)	<ul style="list-style-type: none"> • Unit: 16.22 x 16.54 x 16.36 inch / 33.1 lbs. (412 x 420 x 415.5 mm / 15.0 kg) • Carton: 21.02 x 21.73 x 18.39 inch / 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) <li style="padding-left: 20px;">Humidity: 10% to 80% • Storage temperature: -4°F to 113°F (-20°C to 45°C) <li style="padding-left: 20px;">Humidity: 5% to 95%

Design and specifications are subject to change without notice.

Agency Regulatory Notices

Federal Communications Commission Notice

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 the 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 or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Compaq Computer Corporation may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with FCC Logo, United States Only

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 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.

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.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/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 (IEC801-2, IEC801-3, IEC801-4) - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

Japanese Notice

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取扱説明書に従って正しい取り扱いをして下さい。

German Ergonomics Notice

Compaq Computers, when tested with the Compaq V710 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

The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100-120V or 200-240V.

The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country where you purchased the equipment.

If you need to obtain a power cord for a different country, you should purchase a power cord that is approved for use in that 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 mm² 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.