HEWLETT PACKARD

Information Note

How to Get the Most From Your HP Monitor

Thank you for selecting Hewlett-Packard as your monitor supplier. We want to do everything we can to make sure that you receive the finest performance possible from this product, and so we'd like you to take a few moments to read the following regarding the operation of your new monitor.

Installation and Operation

Read the enclosed installation manual for directions on connecting the monitor to your computer system. This product does not require any special environment for reliable operation, but you should be aware of how the local environment may affect the monitor's performance:

Magnetic Effects

CRT displays are magnetically-controlled devices; they use internally-generated magnetic fields to direct the electron beam that lights the phosphor screen. As such, they may be affected by local magnetic fields, and may even be affected to some degree by the Earth's own magnetic field, which may be different at your location than at the place where the display was originally adjusted. While these external fields will not damage your monitor, they may degrade the display performance. The convergence and purity of color displays may be affected, as well as the position of the image on the screen. For best performance, your monitor should be located away from any sources of strong magnetic fields, such as large industrial motors or heavy power lines. In addition, some of these effects may be noted if the product is installed very close to large iron or steel objects, such as the beams in many buildings.

If you suspect that you may be having a problem with external fields, try moving the monitor to a different location. If the problem persists, contact your HP service representative.

Stronger magnetic fields, such as those produced by some electrical equipment such as large motors, may produce an unacceptable movement, or "jitter", of the displayed image. This is particularly a problem when the equipment is running on line current of a different frequency than the monitor's refresh rate (which is typically 60Hz). Operation of the monitor near such equipment is not recommended. If the monitor must be operated in such a location, try various orientations of the unit to minimize this disturbance. If this is not successful, your HP service representative may be able to partially correct the problem. You should be aware that any corrective actions taken, other than removing the monitor from the locale in which the problem occurs, may be only partially effective.

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Movement of the image or visible "noise" may also be caused by problems in the ground connection of your building's electrical wiring. If you experience such problems, and do not believe external magnetic fields to be the cause, try powering the monitor from a different outlet. Ideally, the monitor and the computer driving it should be powered from the same AC circuit, although this may prove impractical when the monitor is used at a remote location (such as use with the HP 46082A/B Extension Modules).

Ambient Light; Color

Operation of the monitor in extremely brightly lit areas may cause the images to appear dim or washed-out. Try to position the monitor so that it will not be in path of direct sunlight or other bright lights. Use of the 98787B tilt/swivel assembly (for all HP high-resolution color monitors and the 98788A high-resolution monochrome monitor) may help in reducing glare by permitting the screen to be directed away from light sources. In addition, use of certain colors for text may result in eyestrain, as the eye does not perceive these colors to be as bright as others. Blue and red characters should be avoided; white or green text (on a dark background), or black text (on a white background), will be much easier to read.

Some Things to be Aware of

Flashover

Under some circumstances, loose materials within the CRT (cathode ray tube) itself may cause a short-duration arc to occur; this will appear as a momentary flash on the display, and may be accompanied by a short "snap". This is normal during initial operation, as some excess phosphor or other materials within the CRT may have been shaken loose during shipping. This will not damage the monitor, and the occurrence of flashover should diminish rapidly during the first few hours following initial turn-on. However, if the problem persists, you should contact your HP service representative. Continued arcing (past the first few hours of monitor operation) indicates a problem with the CRT or high-voltage components.

NOTE

The arcing occurs within the CRT itself; it does not pose an electrical shock hazard. If you experience an electrical shock (other than simple static discharge) from this product, it indicates a serious problem. Contact your HP service representative immediately.

Automatic Degaussing

All of HP's high-resolution color monitors include an automatic degaussing feature, which prevents the buildup of magnetism in the structure of the CRT and so helps maintain the proper display purity. This degaussing action occurs every time the monitor is turned on; you will hear a short hum as it takes place. While it is very unlikely, the fields produced by this degaussing action may corrupt data stored on magnetic media such as floppy discs. Do not leave floppy discs or tapes on top of or directly beside the monitor.

This degaussing action may be necessary from time to time during operation of the monitor. To degauss the CRT at any time, simply turn the monitor off, wait several seconds, and then turn the monitor back on. You should hear the hum of the degaussing coil.

The Trinitron® CRT

HP's high-resolution color monitors use Sony's Trinitron color CRT. The unique design of this tube provides improvements in brightness and color purity over conventional CRT designs. You may, however, notice two very faint horizontal lines across the screen when lit; these are due to mechanical supports within the tube, and are normal.

Phosphor Burn-in

While the phosphor screens of these monitors are aged for some time during manufacture, the light output of any phosphor will decrease slightly with extended operation. This may cause patterns to be "burned in" on the screen if the same image is displayed for long periods of time. (This is often visible on terminals, where the lines of text may cause darkened lines to appear even when the terminal is turned off.) To avoid this, the monitor should be turned off when not being used; this will not affect the data displayed or the operation of the rest of the system, as long as the other system components are left running. When the monitor is powered back on, the same image as was present at power-off will re-appear, assuming that none of the other system components were disturbed.

* Note: "Trinitron" is a registered trademark of the Sony Corporation.

Hewlett-Packard Company • 3404 East Harmony Road • Fort Collins, Colorado 80525

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