



HP D2837A

17-inch Color Monitor
15.7 inch Viewable Image
User's Guide

17-Zoll-Farbbildschirme
15.7 Zoll Bildanzeige
Benutzerhandbuch

Moniteur couleur 17 pouces
Affichage 15,7 pouces
Guide de l'utilisateur

Pantalla de color de 17 pulgadas
15.7 pulgadas de imagen visualizada
Manual del Usuario *Léase esto primero*

Video a colori da 17 pollici
15.7 effettivi per l'immagine
Manuale utente

Monitor Colorido de 17 polegadas
Imagem Visível de 15.7 polegadas
Guia do Usuário

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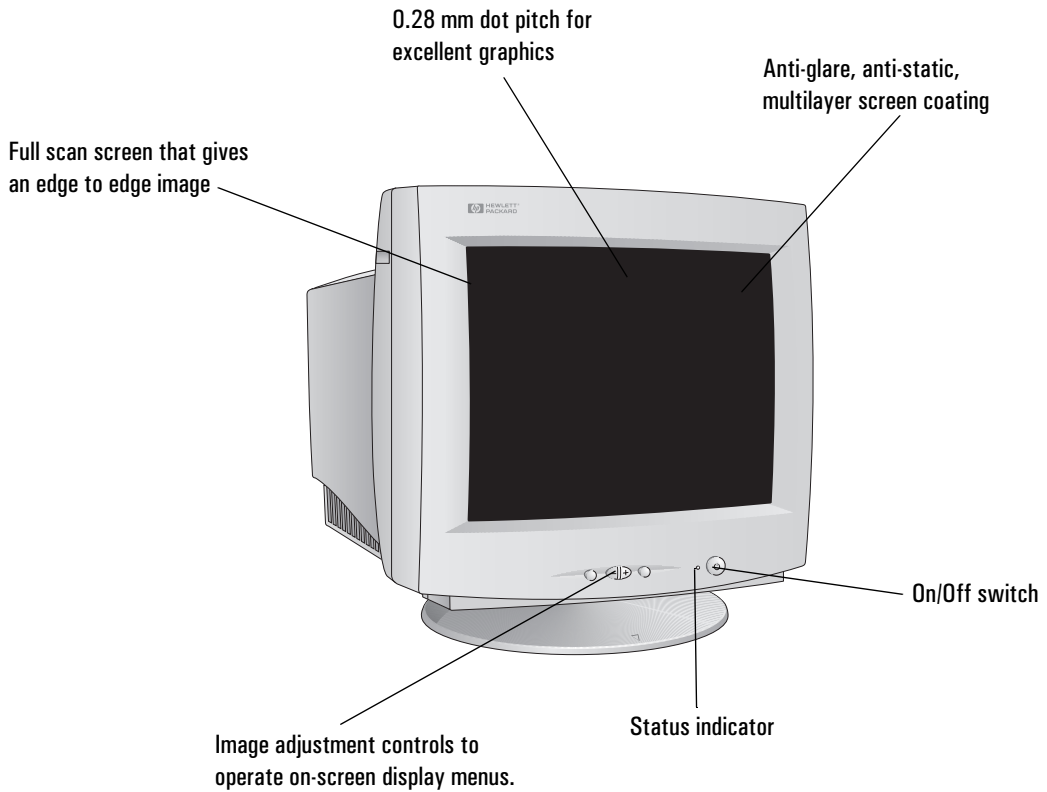
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HP D2837A 17-inch Color Monitor 15.7-inch Viewable Image

User's Guide

Important Safety Instructions

Before you plug in your new monitor, read these important safety instructions.

WARNING

Connect the monitor only to a grounded power outlet. Use the power cord supplied with the monitor or one with a properly grounded plug. Ensure the cable meets your country's standards for safety.

This monitor operates on all power systems, including "IT" power systems. To completely disconnect power at the monitor, remove the power cord from the power outlet. Ensure that the power outlet is easily accessible.

The monitor is quite heavy (the weight is shown in the technical specifications). We recommend you ask the assistance of a second person when lifting or moving it.

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.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

What Your New Monitor Offers

Your HP monitor is a 17-inch (15.7-inch viewable image), high resolution, multi-synchronous color monitor. Multi-synchronous means that the monitor supports a range of video modes. It is optimized to be used with all Hewlett-Packard PCs.

Your HP color monitor has the following features:

- A 17-inch flat square tube, with a 15.7-inch viewable image, and 0.28 mm dot pitch for excellent graphics. Anti-glare, multilayer coating to minimize reflection.
- Support of video modes up to Ultra VGA 1024 at 85 Hz refresh rates, and up to Ultra VGA 1280 using a 60 Hz refresh rate.
- Image adjustment using on-screen display menus. Includes color adjustment and image manipulation controls to optimize the quality and position of the image.
- Monitor power management system (VESA¹ standard) controlled from suitably equipped HP PCs to automatically reduce the power consumption of the monitor. Complies with the Energy Star Computers Program initiated by the US EPA² specification for energy efficient monitors.
- Monitor Plug and Play capability (VESA DDC1/2B standard) that enables the monitor to identify itself to suitably equipped HP PCs.
- Compliance with ISO 9241-3/8 and ZH-1/618 ergonomic standards.
- Your HP D2837A complies with MPRII guidelines for upper limits of electrical and electrostatic emissions, from the Swedish National Board for Measurement and Testing.

1. VESA is the Video Electronics Standards Association

2. The US EPA is the United States Environmental Protection Agency

Setting Up Your Monitor

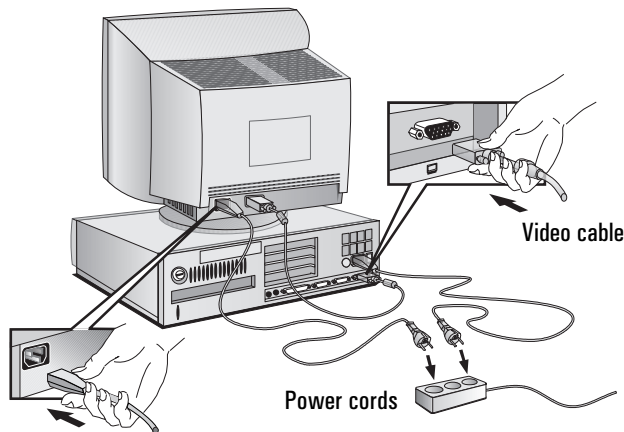
Where to Place the Monitor

Place your monitor on a flat sturdy surface.

Ensure the operating site is free from excessive heat, moisture, and sources of electromagnetic fields. Sources of electromagnetic fields include transformers, motors, and other monitors.

Connecting the Cables

- 1 Before you connect any cables, refer to the safety instructions at the beginning of this manual and make sure your PC and monitor are switched off.
- 2 Connect the video cable (it has a 15-pin plug) to the video outlet on your PC. Tighten the thumbscrews on the plug.
- 3 Connect the power cord to the monitor.
- 4 Plug the power cord into the power outlet.



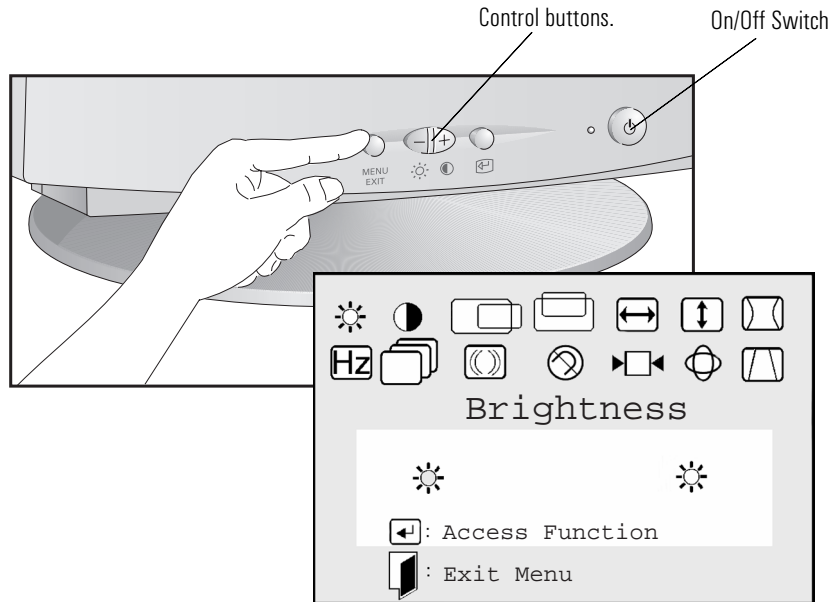
NOTE


The location of your PC's video outlet may be different to the one shown in the diagram. Refer to the manual that came with your PC, if necessary.




Using Your Monitor



The on/off switch  is on the front of the monitor.

You can adjust the quality, position, size and shape of the displayed image using the controls on the front of the monitor to operate the on-screen menus.



Pressing the  button activates the monitor's on-screen main menu. This menu contains the monitor's various adjustment features.

You can select a feature using the  and  controls to scroll to the adjustment feature you require and pressing  to access its menu.

To adjust the required feature, use the  and  controls until the desired changes are complete.

Adjusting the Quality of the Displayed Image



CONTRAST

To adjust the contrast (image white level), select this feature. Contrast is the difference in brightness between the dark and light parts of the displayed image.



BRIGHTNESS

To adjust the overall picture brightness (image black level), use this feature. Set so that the dark areas of the displayed image remain black.

NOTE




You can access the contrast and brightness features directly using the  and  controls respectively, and adjusting as required.

DEGAUSS




To degauss the monitor, select the DEGAUSS icon  and press the enter key . Degaussing keeps the monitor free from unwanted magnetism that can result in color impurity. It is recommended that you degauss at least every week. Degaussing is accompanied by brief instability of the displayed image and a slight humming sound.

Adjusting the Size, Position and Shape of the Displayed Image




RECALL

To revert to the original position, shape and size settings of the displayed image, select the RECALL icon  and use the  and  adjustment controls.




H-SIZE

To adjust the horizontal size of the displayed image, select the H-SIZE icon  from the menu, and use the  and  adjustment controls to resize.




V-SIZE

To adjust the vertical size of the displayed image, select the V-SIZE icon  from the menu, and use the  and  adjustment controls to resize.




H-POSITION

To adjust the horizontal position of the displayed image, select the H-POSITION icon  from the menu, and use the  and  adjustment controls to locate the image.






To adjust the vertical position of the displayed image, select the V-POSITION icon  from the menu, and use the  and  adjustment controls to locate the image.








To adjust the displayed image if its vertical edges appear to bow in or out, select the PINCUSHION icon  from the menu, and reshape using the  and  adjustment controls.




To adjust the displayed image if its vertical edges do not appear parallel, select the TRAPEZOID icon  from the menu, and use the  and  adjustment controls to correct the distortion.

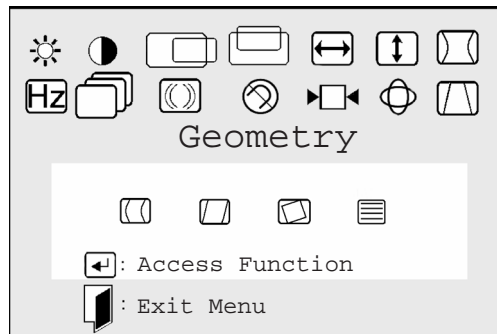





To correct for the effects of moire (screen ripple), select the MOIRE icon  from the menu then either  V-MOIRE for vertical moire or  H-MOIRE for horizontal moire. Finally, use the  and  adjustment controls to reduce screen ripple.











Adjusting the Geometry of the Displayed Image


Adjustments to the shape of the displayed image are performed from the secondary geometry menu. To access this secondary menu, select the GEOMETRY icon  from the main menu.



To adjust the displayed image if its vertical edges appear to bow to the right or left, select the PINBALANCE icon  from the menu, and reshape using the  and  adjustment controls.


 **PARALLELOGRAM** To adjust the displayed image if its vertical edges appear to be tilted to the left or right, select the PARALLELOGRAM icon  from the menu, and use the  and  adjustment controls to correct the distortion.

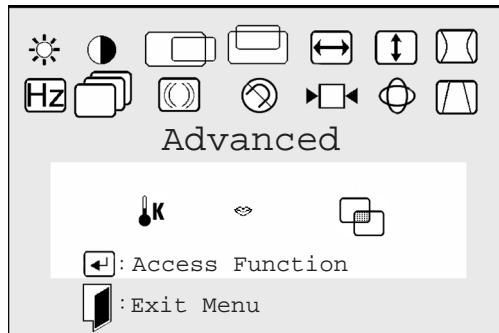
 **ROTATION** Depending on the orientation of your monitor, for example, whether it faces north or south, you may experience some rotation of the image. This effect is due to the influence of the earth's magnetic field and is normal for all monitors. To adjust the displayed image if it appears to be rotated, select the ROTATION icon  from the menu, and use the  and  adjustment controls to re-orient the image.





 **V-LINEARITY** To adjust the displayed image if it appears to be compressed at the top or the bottom, select the V-LINEARITY icon  from the menu, and use the  and  adjustment controls to correct this effect.





 **ADVANCED**

Advanced Menu




To access the advanced settings, select the ADVANCED icon  from the main menu.



 **COLOR TEMP.** To adjust the tint of your monitor, select the COLOR TEMPERATURE icon  from the advanced menu, and use the  and  adjustment controls to achieve the required color temperature.

 **LANGUAGE** To adjust the language of the monitor's on-screen menu, select the LANGUAGE icon  from the advanced menu, and use the  and  adjustment controls to select the required language.

 HALF TONE

To set the monitor's on-screen menu to half tone (semi-transparent), select the HALF TONE icon  from the advanced menu and then press  for ON. For a solid on-screen menu, switch the half tone off by pressing  for OFF.





Setting the Amount of Displayed Information

To set the amount of displayed information, change the *screen resolution* of your PC. The higher the screen resolution, the more information you can see on the screen. It is recommended that you use a resolution of 1024 × 768 at 85 Hz or 1280×1024 at 60 Hz. This gives easy-to-read characters, a large amount of displayed information, and a flicker-free image.

You can make adjustments to the displayed image and they are automatically saved for the resolution you are using. For example, if you adjust your monitor when working in SVGA those settings are saved for SVGA. If you then work in VGA and change the image settings, they are saved for VGA. The next time you switch back to SVGA, your previous settings are used automatically.

 DISPLAY TIMING

To find out which resolution and refresh rate your monitor is currently running at, highlight the DISPLAY TIMING icon  in the main menu. The current resolution is displayed.

To find out which resolutions and refresh rates are supported by your monitor, highlight  in the main menu then press  to access the list of available resolutions. Use the  and  adjustment controls to scroll through the list. Alternatively, you can also refer to “What Video Modes are Supported” on page 11. To change the screen resolution, please refer to the manual that came with your PC or your operating system documentation, if necessary. To set the image refresh rate (also known as the *vertical frequency*), refer to the manual that came with your PC or your operating system.

Your monitor has a Plug and Play capability (VESA DDC1/2B+ standard) that enables it to identify itself to suitably equipped HP PCs. This will automatically give you the best refresh rate for the resolution that you have set. Also, by using the appropriate software (when available), you can adjust the monitor's settings directly from your PC.

Minimizing Eye Strain

To avoid screen flicker and minimize eye strain, use the highest supported *image refresh rate* for the chosen resolution. It is recommended that you use a refresh rate of 85 Hz. The image refresh rate is the number of times per second that the image is refreshed.

Minimizing Energy Consumption

If your PC supports VESA monitor power management (available on many HP PCs), you can minimize the power consumed by the monitor. There are two power saving modes:

- Suspend mode¹ (uses less than 10 W). In this mode, the monitor's front panel indicator light blinks rapidly in green.
- Sleep mode² (uses less than 5 W). In this mode, the monitor's front panel indicator light blinks slowly in green.

To set these power saving modes, refer to the manual that came with your PC. If your screen is not displaying an image, check the front panel indicator light first — your monitor may be in a power saving mode.

1. Suspend mode is activated when horizontal sync is cut by the video controller.
2. Sleep mode is activated when both vertical and horizontal sync are cut by the video controller.

What Video Modes are Supported

Your monitor comes with the preset modes shown in the table below. It also supports intermediate video modes. With the intermediate modes, the displayed image may need to be optimized using the adjustment controls. All modes are non-interlaced.

Screen Resolution	Image Refresh Rate	Video Solution
640×400	70 Hz	VGA/DOS
640×480	75 Hz	Ergonomic VGA
640×480	85 Hz	Ergonomic VGA
800×600	75 Hz	Ergonomic Super VGA
800×600	85 Hz	Ergonomic Super VGA
1024×768	75 Hz	Ergonomic Ultra VGA 1024
1024×768	85 Hz	Ergonomic Ultra VGA 1024
1280×1024	60 Hz	Ultra VGA 1280

CAUTION

Selecting a screen resolution/image refresh rate combination higher than 1280×1024 at 60Hz can damage your monitor.

Technical Specifications

PICTURE TUBE	Size	17-inch flat screen/ 15.7-inch viewable image
	Phosphorous	Red, Green, Blue short persistence
	Dot pitch	0.28 mm
	Face Plate	Anti-glare, multilayer coating
INPUT SIGNAL	Video	0.7 Vp p analog RGB, no setup.
	Synchronization	Separated H/V (TTL level), H/V mixed (TTL level)
INTERFACE	Input Connector	15-pin mini D-SUB
SCANNING FREQUENCY	Horizontal	30 to 70 kHz
	Vertical	50 to 120 Hz
MAX. RESOLUTION (H × V)	1280 × 1024 (60 Hz)	
WARM-UP TIME	30 minutes to reach optimum performance level	
PIXEL CLOCK	110 MHz	
IMAGE SIZE	Standard size ¹ : 306(H) × 230(V) mm Maximum size: 320(H) × 240(V) mm	
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz, 100W (max), less than 10 W in Suspend mode, less than 5 W in Sleep mode, less than 1 W in Off mode	
OPERATING ENVIRONMENT	Temperature	0 °C to 40 °C (operating) - 40 °C to + 65 °C (storage)
	Humidity	10% RH through 80% RH (without condensation)
CABINET DIMENSIONS	422(H) × 420(W) × 426(D) mm (with stand)	
WEIGHT	17 kg	
TILT/SWIVEL STAND	Tilt Angle	- 5° to + 13°
	Swivel Angle	±45°

1. Use the standard image sizes to avoid distortion of the displayed image.

Care and Cleaning

Do not place anything on top of the monitor. Doing so may block the monitor vents and cause damage to the monitor due to overheating.

Do not let liquid get on or into the monitor.

To maximize screen life and prevent damage to the picture tube (such as *burned phosphor* due to leaving the same image on the screen for a long time), it is recommended that you:

- Use the monitor power management system (on HP PCs) or a screen saver program.
- Avoid setting contrast and brightness to their maximum levels for prolonged periods.
- If you do not have a power management system or a screen saver program, switch the monitor off or reduce the brightness and contrast to minimum levels when the monitor is not in use.

Your monitor has an anti-glare, anti-static screen coating. To prevent damage to the monitor screen's coating, use a regular household glass cleaner when cleaning the screen. To clean the screen:

- 1 Switch the monitor off and remove the power plug (pull the plug, not the cable).
- 2 Wet a soft cotton cloth with the cleaning solution and gently wipe the screen. Do not spray cleaner onto the screen because the cleaner may drip inside the monitor.
- 3 Dry with a clean, soft cotton cloth.

Do not use cleaning solutions containing fluoride, acids, or alkalis.

Environmental Information

HP has a strong commitment toward the environment. Your HP monitor has been designed to respect the environment as much as possible.

HP can also take back your old monitor for recycling when it reaches the end of its useful life.

In fact, HP has a product take-back program in several countries. The collected equipment is sent to one of HP's recycling facilities in Europe or the USA. As many parts as possible are reused. The remainder is recycled. Special care is taken for batteries and other potentially toxic substances, which are reduced to non-harmful components through a special chemical process. If you require more details about HP's product take-back program, contact your dealer or your nearest HP Sales Office.

The cathode ray tube used in this monitor does not contain cadmium.

Hardware Warranty

This is your HP Monitor Hardware Warranty Statement. Warranty terms may be different in your country. If so, your Authorized HP Dealer or Hewlett-Packard Sales and Service Office can give you details.

For Consumer Transactions in Australia and New Zealand: The warranty terms contained in this statement, except to the extent lawfully permitted, do not exclude, restrict or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

Limited Monitor Hardware Warranty

Model	Warranty Period	Service provided
Model D2837A	3 years—unless original end-user customer has otherwise agreed to a shorter period of warranty at the time of purchase.	On-site service for first year, and return to an HP or repair-authorized reseller service-center for the following two years.

Hewlett-Packard (HP) warrants this monitor hardware product against defects in materials and workmanship for the applicable warranty period stated above, commencing from the date of purchase by you, the original end-user customer. If you return this monitor hardware product with a defect as defined above, during the warranty period, to an HP-authorized reseller or service center, HP will either, at its option, repair or replace the defective product with a new or equivalent-to-new unit of the same or equivalent model. Should HP be unable to repair or replace the product within a reasonable amount of time, your alternate exclusive remedy shall be a refund of the purchase price upon return of the product.

If you purchased this monitor hardware product for use with an HP personal computer (Vectra, Brio or Kayak), please refer to the terms and conditions of the HP Hardware Warranty statement provided with your HP personal computer (Vectra, Brio or Kayak), including limitations, your responsibilities and method for obtaining warranty service.

Limitation of Warranty

The above warranty shall not apply to defects resulting from: misuse (including "burned" screens); unauthorized modification; operation or storage outside the environmental specifications for this monitor product; in-transit damage; improper maintenance; or defects resulting from use of non-HP software, accessories, media, supplies, consumables, or such items not designed for use with this product.

HP MAKES NO OTHER EXPRESS WARRANTY, WHETHER WRITTEN OR ORAL, WITH RESPECT TO THIS PRODUCT. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE.

Some states or provinces do not allow limitations on warranty, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, or province to province.

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THE REMEDIES PROVIDED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL HP BE LIABLE FOR ANY OTHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON WARRANTY, CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

The foregoing limitation of liability shall not apply in the event that any HP product sold hereunder is determined by a court of competent jurisdiction to be defective and to have directly caused bodily injury, death, or property damage; provided, that in no event shall HP's liability for property damage exceed the greater of \$50,000 or the purchase price of the specific product that caused such damage.

Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Regulatory Information

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: HEWLETT-PACKARD
Manufacturer's Address: 5, Avenue Raymond Chanas - EYBENS
38053 GRENOBLE CEDEX 09
FRANCE

declares, that the product:

Product Name: D2837A - HP 70 17-inch Color Monitor
Model Number: D2837-60*1*

conforms to the following Product Specifications:

SAFETY International: IEC 60950:1991 + A1 + A2 + A3 + A4
Europe: EN 60950:1992 + A1 + A2 + A3 + A4

EMC CISPR 22:1993+A1 / EN 55022:1994 - Class B 1)
EN 50082-1:1992
IEC 801-2:1992 / prEN 55024-2:1992 - 4kV CD, 8 kV AD
IEC 801-3:1984 - 3V/m
IEC 801-4:1988 / prEN 55024-4:1992 - 1 kV Power Lines

IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 1000-3-3:1994 / EN 61000-3-3:1995

FCC Title 47 CFR, Part 15 class B 2) / ICES-003, Issue 2

Supplementary information: The product herewith complies with the requirements of the following Directives and carries the CE mark accordingly:

the EMC Directive 89/336/EEC, the Low Voltage Directive 73/23/EEC both amended by the Directive 93/68/EEC.

- 1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer systems.
- 2) 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.



Jean Marc JULIA
Quality Manager

Grenoble, October 1998.

For Compliance Information ONLY, contact:

USA contact: Hewlett-Packard Company, Corporate Product Regulations Manager, 3000 Hanover Street, Palo Alto, CA 94304.
(Phone (415) 857-1501).

HP 17" Color Monitor User's Guide

Regulatory Information

X-Ray Radiation Notice

When operating, this product emits x-rays; however, it is well shielded and meets the safety and health requirements of various countries, such as the Radiation Act of Germany and the Radiation Control for Health and Safety Act of the United States.

Radiation emitted by this product is less than 0.1 mR/hr (1 μ Sv/hr) at a distance of 10 centimeters from the surface of the cathode ray tube. The x-ray radiation primarily depends on the characteristics of the cathode ray tube and its associated low voltage and high voltage circuitry. Internal controls have been adjusted to ensure safe operation. Only qualified personnel should perform any internal adjustments as specified in the service manual for this product.

Replace the cathode ray tube with an identical CRT only.

General Notice

The HP D2837A 17-inch Color Monitor has been tested according to MPR 1990:8 for Emission properties and meets the guidelines as given by MPR 1990:10 (2.01 - 2.04).



Paper not bleached with chlorine

Part Number 5967-7296

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* HP. Et tout devient possible