

HP D2843A

HP M900

19-inch Color Monitor
18 inch Viewable Image
User's Guide

19-Zoll-Farbbildschirm
18 Zoll Bildanzeige
Benutzerhandbuch

Moniteur couleur 19 pouces
Affichage 18 pouces
Guide de l'utilisateur

Pantalla de color de 19 pulgadas
18 pulgadas de imagen visualizada
Manual del Usuario *Léase esto primero*

Video a colori da 19 pollici
18 effettivi per l'immagine
Manuale utente

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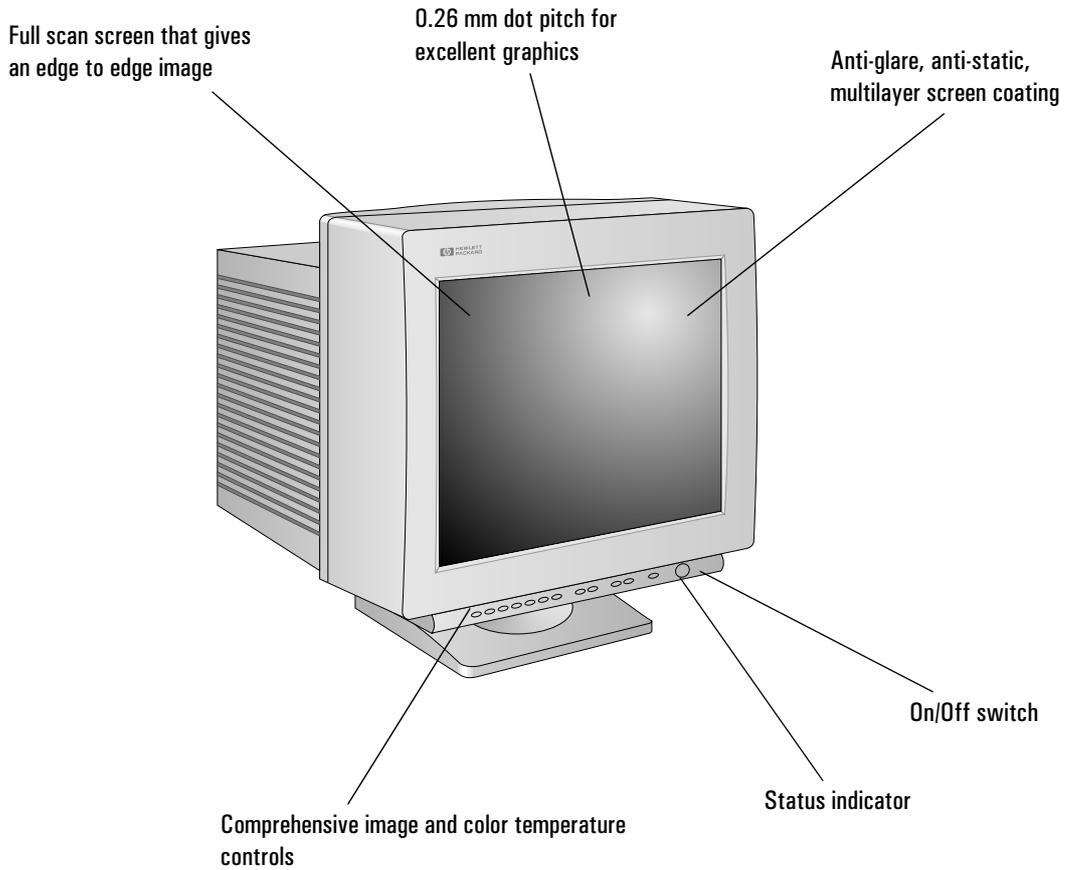
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HP M900 19-inch Color Monitor 18-inch Viewable Image

User's Guide

Important Safety Instructions

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

WARNING

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

To avoid the risk of an electric shock, do not open the cover of the display. There are no user-serviceable parts inside. To completely disconnect power at the display, remove the power cord from the power outlet. Ensure that the power outlet is easily accessible.

The display 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.

USA and Canada

If the power cord is not supplied with your display, select the proper power cord according to the appropriate national electric codes.

- USA: use a UL Listed Type SVT or Type SJT detachable power cord.
- Canada: use a CSA certified detachable power cord.

Si le cordon secteur n'est pas livré avec votre moniteur, utiliser un cordon secteur en accord avec le code national électrique applicable.

- USA: utiliser un cordon secteur UL Liste de type SVT ou SJT.
- Canada: utiliser un cordon secteur certifié CSA.

What Your New Display Offers

The HP M900 Monitor is a 19-inch (18-inch viewable image), high resolution, multi-synchronous color display. Multi-synchronous means that the display supports a range of video modes. It is optimized to be used with all Hewlett-Packard PCs.

Your HP D2843A color display has the following features:

- A 19-inch flat square tube, with a 18-inch viewable image, and 0.26 mm dot pitch for excellent graphics. Anti-glare, multilayer coating to minimize reflection.
- Support of video modes up to Ultra VGA 1280 at 85 Hz refresh rates, and up to Ultra VGA 1600 using a 75 Hz refresh rate.
- Direct image adjustment from the ergonomic control panel. Includes color adjustment and image rotation controls to optimize the quality and position of the image.
- Display power management system (VESA¹ standard) controlled from suitably equipped HP Vectra PCs to automatically reduce the power consumption of the display. Complies with the Energy Star Computers Program initiated by the US EPA² and the Swedish NUTEK³ specification for energy efficient displays.
- Display Plug and Play capability (VESA DDC1/2B standard) that enables the display to identify itself to suitably equipped HP Vectra PCs, even when the display is switched off.
- Compliance with ISO 9241-3 and ISO 9241-8 ergonomic standards.
- Your HP D2843A complies with the TCO⁴ '92 requirements for low frequency electrical and magnetic fields, and for energy saving. It also complies with TCO '95 requirements which include environmental specifications.
- Your HP D2843A complies with the Swedish standard SS4361490, Level B, (MPR III) for electric and magnetic field emission.

1. VESA is the Video Electronics Standards Association

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

3. NUTEK is the Swedish National Board for Industrial and Technical Development

4. Swedish Confederation of Professional Employees

Setting Up Your Display

Where to Place the Display

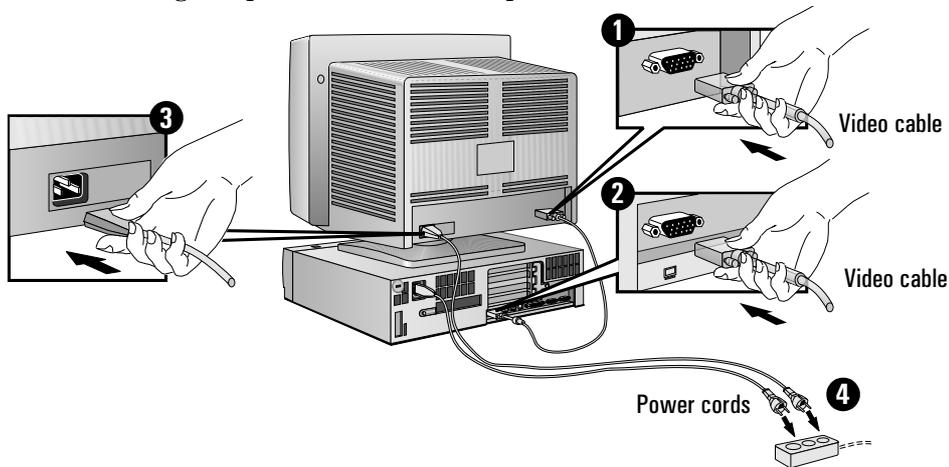
Place your display on a flat sturdy surface.

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

Connecting the Cables

Before you connect any cables, refer to the safety instructions at the beginning of this manual and make sure your PC and display are switched off.

- 1 Connect the video cable to the video input on the back of your display. Tighten the thumbscrews on the plug.
- 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 display.
- 4 Plug the power cord into the power outlet.



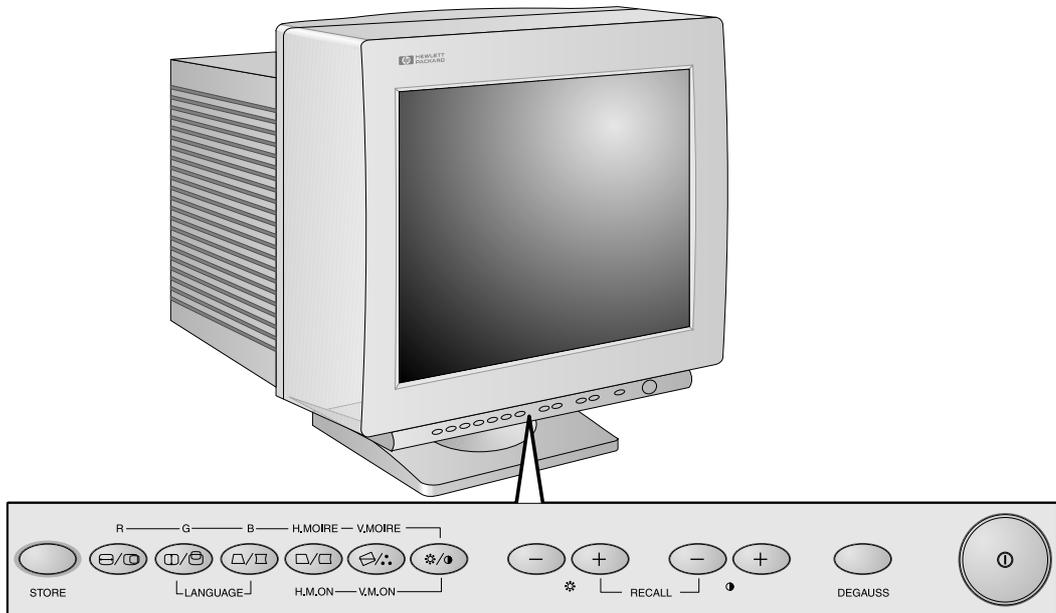
NOTE

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 Display

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

You can adjust the quality, position, size and shape of the displayed image using the control panel on the front of the display. You can also store the settings that you make.



Your Display's Onscreen Menus

Your display features onscreen menus to help you make adjustments. To change the language of the menus, press  and  at the same time. Use  and  to cycle through the available languages. Your display can show menus in English, German, Spanish, Italian and French.

Making Basic Adjustments



To adjust the contrast (image white level) use these buttons. Contrast is the difference in brightness between the dark and light parts of the displayed image.



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

Your display will store brightness and contrast levels automatically.

Adjusting the Size, Shape, and Position of the Displayed Image

Horizontal Size and Position



Press . Use  and  to adjust the horizontal position of the displayed image. Use  and  to adjust the horizontal size.

Vertical Size and Position



Press . Use  and  to adjust the vertical position of the displayed image. Use  and  to adjust the vertical size.

Rotation control



Depending on the orientation of your display, 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 displays.

To adjust the displayed image, press . Then press  to rotate the image clockwise, or press  to rotate the image counter-clockwise.

Pincushion control



If the vertical edges of the image appear to bow in or out, press  and then use  and  to reshape. For best results, adjust so that the left edge of the image is straight. You can then use the Right Pincushion control described later to adjust the right edge.

Trapezoid control



If the vertical edges of the image do not appear parallel, press  and then use  and  to correct. For best results, adjust so that the left edge of the image is vertical. You can then use the Right Trapezoid control described later to adjust the right edge.

Right Pincushion control



This control only affects the right side of the image. Press . Then press  to make the right side bow outwards, or press  to make it bow inwards. For best results, use the Pincushion control to make the left side of the image straight before using this control to adjust the right side.

Right Trapezoid control



This control only affects the right side of the image. Press . Then press  to expand the top right side of the image, or press  to expand the bottom right side. For best results, use the Trapezoid control to make the left side of the image vertical before using this control to adjust the right side.

Reducing Moire

Under certain circumstances, the displayed image may be distorted by the Moire effect. This usually happens when your display is showing certain complex patterns, and can often be reduced by adjusting the brightness and contrast settings of your display, or by adjusting the vertical or horizontal size.



If this does not work, you can reduce vertical Moire by pressing  and  at the same time. Then press  and  to increase or decrease the amount of vertical Moire reduction, or press  to turn off vertical Moire reduction.



To reduce horizontal Moire, press  and  at the same time, and then adjust in the same way.

Storing your Size, Position, Shape and Moire Reduction Settings.



To store your size, position, shape and Moire reduction settings, press **STORE**. The settings will be stored for the current video mode, and will be used whenever you work in that video mode.

Adjusting the Tint of the Displayed Image

Your display combines red, blue, and green to show a full color image. Under certain circumstances you may wish to change the proportions of red, blue, and green used by the display, known as the *color temperature*.

Choosing a Preset Color Temperature



Your display has three factory-set color temperature settings. Press  and then press  and  to cycle through the settings.

Setting Your Own Color Temperature

You can also set your own color temperature setting. This table shows how.

	PRESS AT THE SAME TIME			DECREASE	INCREASE
RED			THEN PRESS		
GREEN					
BLUE					

When a color is set to full intensity, an attempt to increase that color has the effect of reducing the intensity of the other two colors. So if green is already set to full intensity, an attempt to increase its intensity will instead reduce the intensity of red and blue, and the image will appear greener as a result.

If you make a mistake, you can undo the color change you have just made by pressing  and  at the same time, and holding them down for about two seconds.

Storing Your Color Temperature Setting



To store your color temperature setting, adjust the red, green and blue levels and then press **STORE**. You can restore this color temperature at any time, in any video mode, by pressing  and then using , and  to select **USER**. Your display does not store different color temperature settings for different video modes.

Degaussing Your Display



To degauss the display, press **DEGAUSS**. Your display may need degaussing if you see color impurities in the displayed image, caused by magnetic interference.

NOTE

Your display degausses itself automatically when you turn it on. Do not degauss your display repeatedly—leave at least ten minutes between presses of the **DEGAUSS** button.

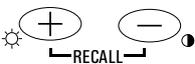
Getting Information About Your Display

Whenever you change video mode, your display will indicate for a few seconds the Horizontal Frequency and Vertical Frequency of the new video mode. If you want information on the current video mode, press . If you have turned on Moire reduction, you will also see this symbol: . If only vertical Moire reduction is turned on, only the **V** will be visible. If only horizontal Moire reduction is turned on, you will see only the **H**.

Recalling Your Display's Factory Presets

CAUTION

Recalling the factory presets will delete any settings you have made for the video mode you are working in and replace them with those preset at the factory.



To recall your display's factory settings for the video mode you are working in, press  and , at the same time, and hold them down for two seconds. This does not affect any settings you have made for other video modes.

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 1280 × 1024 at 85 Hz. This gives easy-to-read characters, a large amount of displayed information, and a flicker-free image.

To find out which resolutions are supported by your display, refer to “Supported Video Modes”. To change the screen resolution, please refer to the manual that came with your PC or your operating system documentation, if necessary.

Your display has a Plug and Play capability (VESA DDC1/2B standard) that enables it to identify itself to suitably equipped HP Vectra PCs. This will automatically give you the best refresh rate for the resolution that you have set.

NOTE

If you have trouble configuring your operating system to work with your display, refer to the manual that came with your PC or your operating system documentation. Software updates and further information are available on HP's website.

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.

To find out which image refresh rates are supported by your display, refer to “Supported Video Modes”. 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 documentation, if necessary. If your PC supports Plug and Play, it will automatically select the best refresh rate for the screen resolution you have set.

Minimizing Energy Consumption

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

- Standby mode¹ (uses less than 28W). In this mode, the display's front panel indicator light blinks quickly.
- Sleep mode² (uses less than 5 W). In this mode, the display's front panel indicator light blinks slowly.

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 display may be in a power saving mode.

1. Standby mode is activated when either vertical synchronization or horizontal synchronization is cut by the video controller.
2. Sleep mode is activated when both vertical and horizontal synchronization are cut by the video controller.

Supported Video Modes

Your display supports the video modes shown in the table below.

Screen Resolution	Image Refresh Rate	Video Solution
640×400	70 Hz	VGA
640×480	85 Hz	Ergonomic VGA
800×600	85Hz	Ergonomic Super VGA
1024×768	75 Hz	Ergonomic Ultra VGA 1024
1024×768	85 Hz	Ergonomic Ultra VGA 1024
1280×1024	75 Hz	Ergonomic Ultra VGA 1280
1280×1024	85 Hz	Ergonomic Ultra VGA 1280
1600×1200	75 Hz	Ergonomic Ultra VGA 1600

CAUTION

Selecting a screen resolution/image refresh rate combination higher than 1600 × 1200 at 75 Hz can damage your display.

Technical Specifications

PICTURE TUBE	Size	19-inch flat screen / 18-inch viewable image
	Phosphorous	Red, Green, Blue short persistence, Dot Type Black Matrix
	Dot pitch	0.26 mm
	Face Plate	Anti-glare, multilayer coating
INPUT SIGNAL	Video	0.660 Vp p analog RGB
	Synchronization	Separated H/V (TTL level), H/V mixed (TTL level), Sync-on-green
INTERFACE	Input Connector	15-pin mini D-SUB
SCANNING FREQUENCY	Horizontal	30 to 95kHz
	Vertical	50 to 160 Hz
MAX. RESOLUTION (H × V)	1600×1200 (75 Hz)	
WARM-UP TIME	30 minutes to reach optimum performance level	
PIXEL CLOCK	200 MHz	
IMAGE SIZE	At 1280×1024	At other resolutions
	Standard size ¹ : 330(H) x 265(V) mm	Standard size ¹ : 355(H) x 265(V) mm
	Maximum size: 367(H) x 276(V) mm	Maximum size: 367(H) x 276(V) mm
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz, 140W (max), less than 28 W in Standby mode, less than 5 W in Sleep mode, less than 1 W when switched off.	
OPERATING ENVIRONMENT	Temperature	5 °C to 40 °C (operating) - 20 °C to + 60 °C (storage)
	Operating Humidity	10% RH through 80% RH (without condensation)
CABINET DIMENSIONS	454(H) × 448(W) × 460(D) mm (with stand)	
WEIGHT	25 kg	
TILT/SWIVEL STAND	Tilt Angle	- 5° to + 12°
	Swivel Angle	±60°

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

Care and Cleaning

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

Do not let liquid get on or into the display.

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 display power management system (on HP Vectra 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 display off or reduce the brightness and contrast to minimum levels when the display is not in use.

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

- 1 Switch the display 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 display.
- 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 display has been designed to respect the environment as much as possible.

HP can also take back your old display 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 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 display does not contain cadmium.

Hardware Warranty

This is your HP Display 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.

Limited Display Hardware Warranty

Model	Warranty Period	Service provided
Model D2843A	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 1st year, and return to an HP or repair-authorized reseller service-center for the following two years.

HP M900 Monitor User's Guide

Hardware Warranty

Hewlett-Packard (HP) warrants this display 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 display 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 display hardware product for use with an HP Vectra personal computer, please refer to the terms and conditions of the HP Hardware Warranty statement provided with your HP Vectra personal computer, 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 display 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: HEWLETTPACKARD

Manufacturer's Address: 5, Avenue Raymond Chanas – EYBENS
38053 GRENOBLE CEDEX 09, FRANCE

declares, that the product:

Product Name: HP M900 Monitor
Model Number: D2843* (see Note)

conforms to the following Product Specifications:

SAFETY International: IEC 950:1991 + A1 + A2 + A3
European: EN 60950:1992 + A1 + A2 + A3

EMC CISPR 22:1993 / EN 55022:1994 - Class B
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

Supplementary information: the product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC amended by the Directive 93/68/EEC, and carries the CE-marking accordingly.

Note: * can be any alphanumeric character, or blank.



Jean Marc JULIA
Quality Manager

Grenoble, August 1997.

Notice for the USA: FCC Statement

Federal Communications Commission (FCC) STATEMENT WARNING

WARNING: 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 one of 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/television technician for help.

CAUTION

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

DECLARATION OF CONFORMITY

according to 47CFR, Part 2 and 15 for Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B Personal Computers:

We: NISSEI SANGYO AMERICA, LTD.
Located at: 200 Lowder Brook Drive Suite 2200
Westwood, MA. 02090 1124 U.S.A.

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR § 2.909. 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 above named party is responsible for ensuring that the equipment complies with the standards of 47CFR § 15.101 to 15.109.

Trade Name: Color Monitor
Model Number: CM751 / D2843

Signature of Party Responsible: 
Printed name of Party Responsible: Satoshi Tanabe
Executed on (Date), at (Place): June 20, 1997, MA, U.S.A.

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 (1uSv/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.

Notice for Japan

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づく第二種情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

Notice for Canada

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

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

Notice for Korea

이 기기는 비업무용으로 전자과장해검정을 받은 기기로서 주저지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Notice for China

重要的安全指令

在安装屏幕时，要注意如下几项安全措施：

屏幕的电缆只可接上有地线的插头，请使用屏幕原有的电缆或另一接地电缆。并应检查电缆是否符合本国的安全准则。

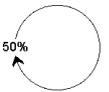
屏幕电缆可接上各种电源，包括"IT"系统。至于完全断止屏幕的电源，只需将电缆拔离插头。插头应安装在易接近的地方。

在搬抬或移动屏幕时，应由两人抬动，因屏幕比较重（其重量写在技术规格上）。



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