



HP D2846A

HP P1100

21-inch Color Monitor
19.8 inch Viewable Image
User's Guide

21-Zoll-Farbbildschirm
19.8 Zoll Bildanzeige
Benutzerhandbuch

Moniteur couleur 21 pouces
Affichage 19.8 pouces
Guide de l'utilisateur

Pantalla de color de 21 pulgadas
19.8 pulgadas de imagen visualizada
Manual del Usuario *Léase esto primero*

Video a colori da 21 pollici
19.8 effettivi per l'immagine
Manuale utente

Notice

The information contained in this document is subject to change without notice.

Hewlett-Packard makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Hewlett-Packard assumes no responsibility for the use or reliability of its software on equipment that is not furnished by Hewlett-Packard.

This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of Hewlett-Packard Company.

Hinweis

Inhaltliche Änderungen vorbehalten.

Hewlett-Packard übernimmt keine Garantie welcher Art auch immer für diese Ausrüstung, einschließlich der (doch nicht begrenzt auf die) Qualitätsgarantie und die Garantie bezüglich Eignung für einen bestimmten Zweck.

Hewlett-Packard haftet nicht für in dieser Dokumentation enthaltene Fehler oder für unbeabsichtigte oder indirekte Schäden in Verbindung mit der Lieferung, der Leistung oder der Benutzung der Ausrüstung.

Hewlett-Packard übernimmt keine Haftung für den Betrieb oder die Zuverlässigkeit seiner Software, wenn diese auf Hardware benutzt wird, die nicht von Hewlett-Packard geliefert wurde.

Dieses Dokument enthält proprietäre Informationen, die durch das Copyright geschützt sind. Alle Rechte vorbehalten. Dieses Dokument darf ohne vorherige schriftliche Genehmigung der Hewlett-Packard Company weder ganz noch teilweise fotokopiert, reproduziert oder übersetzt werden.

Avertissement

Les informations contenues dans ce document peuvent être modifiées sans préavis.

Hewlett-Packard ne donne aucune garantie de quelque sorte que ce soit concernant, sans que ce soit limitatif, les garanties implicites de qualité commerciale de ce matériel, ou la bonne adaptation de celui-ci à un usage particulier.

Hewlett-Packard n'est pas responsable des erreurs pouvant apparaître dans ce manuel et n'est pas non plus responsable des dommages directs ou indirects résultant de l'équipement, des performances et de l'utilisation de ce matériel.

Hewlett-Packard ne saurait être tenu pour responsable de l'utilisation et de la fiabilité de son logiciel sur des matériels non fournis par Hewlett-Packard.

Les informations contenues dans ce document sont originales et protégées par copyright. Tous droits réservés. L'acheteur s'interdit en conséquence de les photocopier, de les reproduire ou de les traduire dans toute autre langue, sauf accord préalable et écrit de Hewlett-Packard.

Aviso

La información contenida en este documento está sujeta a cambios sin previo aviso.

Hewlett-Packard no ofrece ningún tipo de garantía con respecto a este material, incluyendo, pero sin limitarse a, las garantías implícitas de comerciabilidad e idoneidad para un fin determinado.

Hewlett-Packard no asume responsabilidad alguna por los posibles errores contenidos o por los daños casuales o emergentes relacionados con el suministro, funcionamiento o uso de este material.

Hewlett-Packard no asume responsabilidad alguna por el uso o fiabilidad de su software en equipos que no hayan sido fabricados por Hewlett-Packard.

Este documento contiene información patentada, protegida por las leyes del copyright. Reservados todos los derechos. Ninguna parte de este documento puede ser fotocopiada, reproducida o traducida a otro idioma sin la autorización previa y por escrito de Hewlett-Packard Company.

Avviso

Le informazioni contenute in questo documento sono soggette a cambiamento senza preavviso.

Hewlett-Packard non rilascia garanzie di alcun tipo riguardo a questo materiale, comprese le garanzie implicite di commerciabilità e di idoneità per uno scopo particolare.

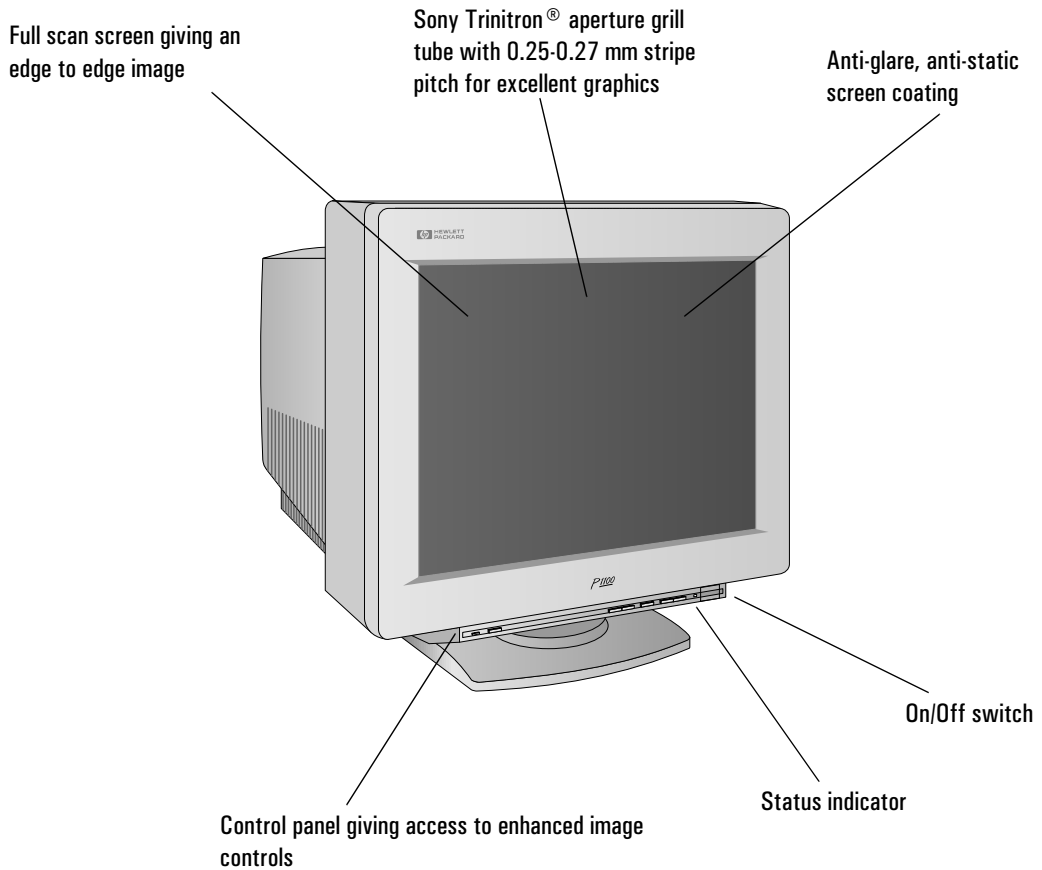
Hewlett-Packard non sarà ritenuta responsabile per errori contenuti in questo documento, né per danni accidentali o conseguenti alla fornitura, alle prestazioni o all'uso di questo materiale.

Hewlett-Packard non si assume alcuna responsabilità riguardo all'uso o all'affidabilità del proprio software su apparecchiature di altri produttori.

Questo documento contiene informazioni di proprietà protette da copyright. Tutti i diritti sono riservati. Nessuna parte di questo documento può essere fotocopiata, riprodotta o tradotta in un'altra lingua senza un precedente consenso scritto di Hewlett-Packard Company.

Hewlett-Packard France
Commercial Desktop Computing Division
38053 Grenoble Cedex 9
France

© 1997 Hewlett-Packard Company



HP P1100 21-inch Color Monitor 19.8-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 P1100 Monitor is a 21-inch (19.8-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 D2846A color display has the following features:

- A 21-inch Sony Trinitron^{®1} tube, with a 19.8-inch viewable image, and 0.25-0.27 mm stripe pitch for excellent graphics. Anti-glare, antistatic screen to minimize reflection.
- Support of video modes up to Ultra VGA 1600 at 85 Hz refresh rates.
- Image adjustment using onscreen menus. Includes advanced geometry, color temperature, and image purity controls to optimize the quality and position of the image.
- Display power management system (VESA² 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 EPA³ and the Swedish NUTEK⁴ 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 D2846A complies with the TCO⁵ '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 D2846A complies with the new Swedish standard SS4361490, equivalent to MPR-III guidelines, Level A, for upper limits of electrical and electrostatic emissions. This Level A corresponds to TCO '91 requirements which specify an even lower level of emissions than MPR-II recommendations.
- Your HP D2846A display complies with Blue Angel and E2000 environmental requirements.

1. Trinitron[®] is a registered trademark of Sony Corporation

2. VESA is the Video Electronics Standards Association

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

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

5. Swedish Confederation of Professional Employees

Setting Up Your Display

Where to Place the Display

Place your display on a flat sturdy surface.

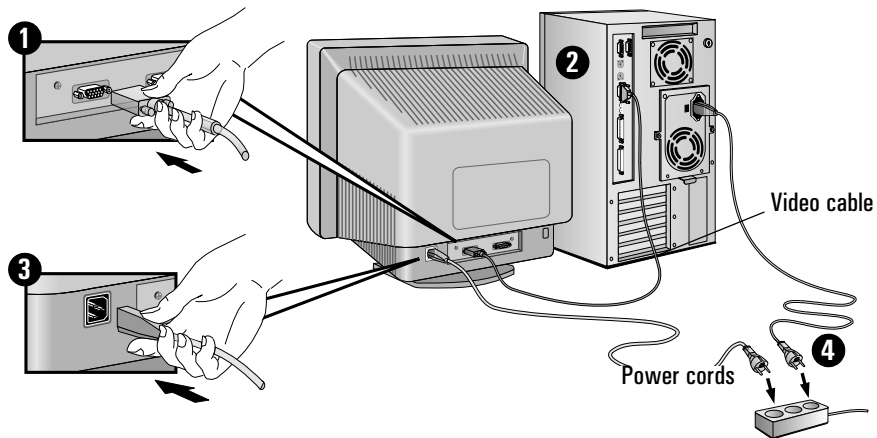
Ensure the operating site is free from excessive heat, moisture, and sources of electromagnetic fields. Sources of electromagnetic fields include transformers, motors, and other displays.

Connecting the Cables

NOTE

Your display has two video inputs, one with a standard 15-pin VGA connector, and one with a connector of the VESA EVC¹ standard. An EVC cable is not provided with the display: if you wish to use this connector — to connect more than one computer to your display, for example — you must purchase a suitable cable from your supplier.

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. Extended Video Connector

- 1 Connect the video cable to the standard 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

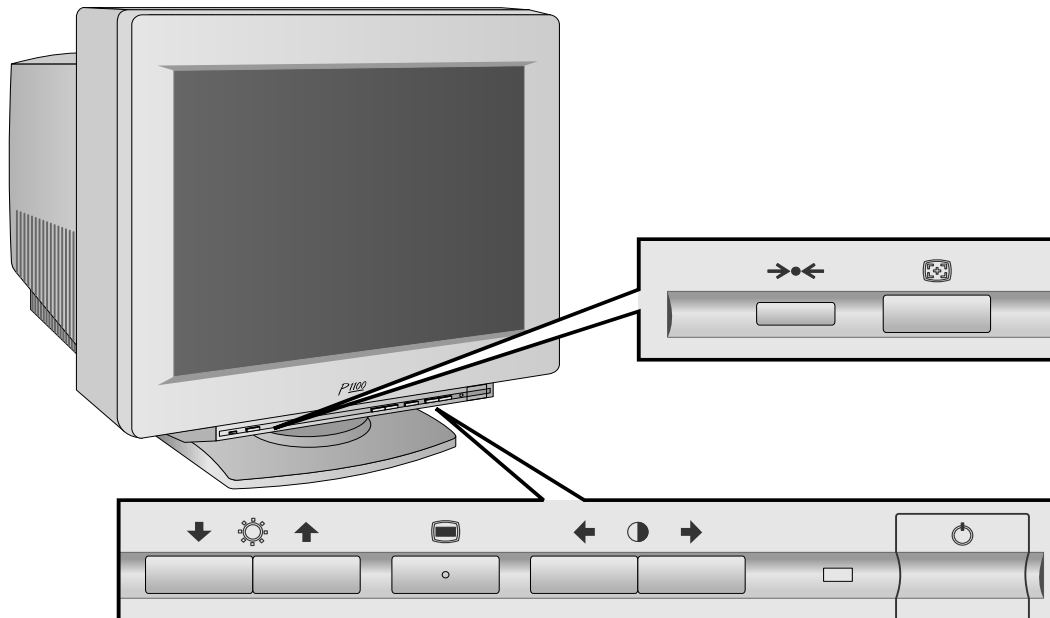
The location of your PC's video outlet may be different to the one shown in the diagram. Refer to the manual that came with your PC, if necessary.

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.

Your display also features automatic image adjustment through Auto Size and Center, to minimize the need for manual adjustment.



Making Basic Adjustments

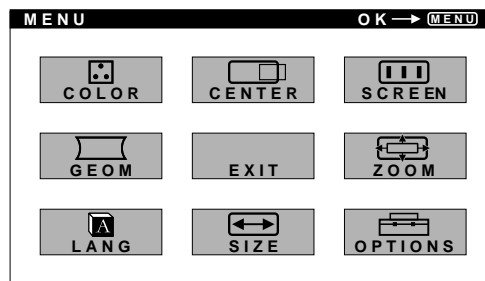
- To increase the brightness, press **▲**
- To decrease the brightness, press **▼**
- To increase the contrast, press **▶**
- To decrease the contrast, press **◀**
- To automatically adjust your display for the video mode you are using, press **(F3)**. Auto Size and Center will make the necessary adjustments for you. You can then optimize your display's settings using the controls described further on.

NOTE

Auto Size and Center works by sensing the edges of the image to be displayed on the screen. If your display is showing an image with dark or undefined edges — such as a command prompt — then you may have to make manual adjustments.

Your Display's On-screen Menus

Your display features on-screen menus to help you make adjustments. To activate the main menu, press **(M)**. It looks like this:



The blue rectangles provide access to submenus. They turn yellow when highlighted by the cursor. Use these direction controls to move the cursor: **◀**, **▶**, **▲**, **▼**.

Press **(M)** to select the highlighted submenu. Then use the direction controls to adjust the settings in the submenu. When you have finished making your adjustments, press **(M)** to leave the submenu. Then highlight EXIT, if necessary, and press **(M)** again to leave the main menu.

You can set the position and the language of your display's menus. Refer to "Setting Your Display's Preferences" later on.






Adjusting Your Display for a Particular Video Mode

These adjustments only apply when you are working in the video mode in which you set them. So, for example, you can adjust your display whilst working in 1280 × 1024 resolution, switch to another resolution, and your display will switch back to your preferred settings when you start to work in 1280 × 1024 resolution once more.






NOTE

You may want to adjust the rotation of the displayed image *before* adjusting your display for a particular video mode. See "Configuring Your Display" further on.







Centering the Displayed Image

Select  from the main menu. Use  and  to adjust the horizontal position of the displayed image. Use  and  to adjust the vertical position.







Resizing the Displayed Image

Select  from the main menu. Use  and  to adjust the horizontal size of the displayed image. Use  and  to adjust the vertical size.







Correcting for Pincushion Distortion

Select  from the main menu. Use  and  to highlight . Use  and  to adjust until the edges of the displayed image are straight.







Adjusting the Pin Balance

Select  from the main menu. Use  and  to highlight . Use  and  to adjust until the edges of the displayed image are straight.

Correcting for Keystone Distortion








Select  from the main menu. Use  and  to highlight . Use  and  to adjust until the edges of the displayed image are parallel with each other.

Adjusting the Key Balance


Select  from the main menu. Use  and  to highlight . Use  and  to adjust until the edges of the displayed image are parallel with the edges of the screen.




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, select  from the main menu. You will see either one or two icons like this: . If there is only one visible, highlight it and then press  to turn on Moire reduction. Then press  to highlight the lower icon, and use  and  to adjust the level of Moire reduction. If both icons are visible, simply select the lower one and adjust straight away. If you want to turn off Moire reduction temporarily, highlight the upper icon and press . When you come to turn it back on again, the level you chose before will be restored.

Resetting Your Adjustments for the Video Mode you are Working in





Press . Your adjustments are deleted for the video mode you are working in, and the settings preset at the factory are restored.

Resetting Individual Settings You can also reset individual settings. Select the item you want to reset in the on-screen menu, and press  whilst the submenu is still displayed. For example, to reset your display's geometry settings, select  from the main menu, and then press  whilst the submenu titled GEOMETRY is displayed. All the settings accessible through that submenu — for rotation, pincushion distortion, pin balance and so on — are reset to those set in the factory.

Configuring your Display

These adjustments let you configure your display very precisely to its environment and to your needs. They are always effective, whatever video mode you are working in.

Rotation








Select  from the main menu. Then highlight  and use  and  to rotate the displayed image.

Color Temperature

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. This is called changing the *color temperature*.

Your display can store three color temperatures. When it is shipped from the factory, these are preset to 5000 Kelvin, 6500 Kelvin and 9300 Kelvin, but you can overwrite any or all of these presets with your own color temperatures if you wish.

To Select A Preset Color Temperature Select  from the main menu. Use  and  to select the color temperature.

To Create Your Own Color Temperature Setting Select  from the main menu. Use  and  to select the color temperature setting you want to overwrite. Use  and  to select Red, Green or Blue, and then use  and  to adjust the selected color level.

To Restore the Factory Preset Color Temperature Settings Select  from the main menu. Press . The factory preset color temperature settings are restored.






Advanced Configuration

NOTE








These controls are for advanced users who want to optimize the purity of the displayed image. Unnecessary adjustment of these controls may adversely affect the overall performance of the display. Remember that you can restore the factory settings at any time — refer to “Resetting Individual Settings” above.

Convergence Use this control if you see *fringing* in the displayed image. That is when areas in the displayed image — more noticeably dark areas — appear to have fringes of color round their edges.

You can adjust the horizontal and vertical convergence over the whole screen. You can also adjust separately the vertical convergence settings for the top and the bottom portions of the screen.




Select  from the main menu. You will see one icon like this  and three icons like this . Highlight the convergence setting you want to change, and use  and  to adjust. For best results, adjust the horizontal and vertical convergence settings before adjusting the individual settings for the top and bottom portions of the screen.

Landing Use this control to correct variations in color temperature over the displayed image. You can adjust separately the beam landing in each corner of the screen.







Select  from the main menu. You will see two icons like this: . Highlight the upper icon and then use  and  to select the corner of the screen you wish to make an adjustment for. Then press  to highlight the lower icon, and use  and  to adjust.







Setting the Preferences of Your Display

Setting the Language of the On-Screen Menus






Select  from the main menu. Use  and  to select the language you want.

Setting the Position of the On-Screen Menus




Horizontal Position Select  from the main menu. Use  and  to highlight . Use  and  to move the on-screen menu horizontally.

Vertical Position Select  from the main menu. Use  and  to highlight . Use  and  to move the on-screen menu vertically.

Locking and Unlocking the Controls of Your Display



From the main menu, select . Then use  and  to highlight , and press . The controls of your display are now locked: if you attempt to adjust your display, a picture of a key will appear in the bottom left hand corner, and your settings will not be changed.

The only item available in the main menu is the  item.

To unlock your display, select  from the main menu. Then highlight  and press . Your display is now unlocked.







Selecting a Video Input

If you have connected more than one computer to your display, by using the EVC input as well as the standard input, you can select which input is used.

From the main menu, select . Use  and  to highlight . Then use  and  to select video input 1 (standard) or 2 (EVC).

Setting the Power Save Delay

If your display does not receive any input from your computer, it will wait a certain length of time, and then go into power saving mode. See “Minimizing Energy Consumption” further on for more details on your display’s power management features.

To set this delay, select  from the main menu. Use  and  to highlight . Then use  and  to select your preferred delay.

Degaussing Your Display


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

Select  from the main menu. Use  and  to highlight . Then press  to degauss your display.

NOTE

Your display degausses itself automatically when you turn it on. Do not degauss your display repeatedly — leave at least 20 minutes between attempts.

Fully Resetting Your Display

To fully reset you display, when no menu is displayed on the screen press  and hold it down for more than two seconds. Your display will dim two times, and all settings, including brightness and contrast and language setting, will be deleted and those preset in the factory are restored.

NOTE

If the reset button doesn't seem to work, check that the controls of your display are not locked. Refer to “Locking and Unlocking the Controls of Your Display” above.

Getting Information About Your Display

Your display indicates the horizontal frequency and the vertical frequency of the current video mode whenever you adjust the brightness or the contrast level.

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 1600 × 1200 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 through Hewlett-Packard Electronic Information Services. Look on HP's website at <http://www.hp.com>, or dial into an HP BBS.

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 15W). In this mode, the display's front panel indicator light blinks green and amber.
- Sleep mode² (uses less than 5 W). In this mode, the display's front panel indicator light glows amber.

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 vertical 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	85 Hz	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
1600×1200	85 Hz	Ergonomic Ultra VGA 1600

CAUTION

Selecting a screen resolution/image refresh rate combination higher than 1600 × 1200 at 85 Hz can damage your display.

Technical Specifications

PICTURE TUBE	Size	21-inch Trinitron®/ 19.8-inch viewable image
	Phosphorous	Red, Green, Blue short persistence
	Dot pitch	0.25-0.27 mm stripe pitch
	Face Plate	Anti-glare, anti-static coating
INPUT SIGNAL	Video	0.7 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; EVC
SCANNING FREQUENCY	Horizontal	30 to 107 kHz
	Vertical	50 to 160 Hz
MAX. RESOLUTION (H × V)	1600×1200 (85 Hz)	
WARM-UP TIME	30 minutes to reach optimum performance level	
PIXEL CLOCK	230 MHz	
IMAGE SIZE	At 1280×1024	At other resolutions
	Standard size ¹ : 364(H) x 291(V) mm	Standard size ¹ : 388(H) x 291(V) mm
	Maximum size: 403(H) x 302(V) mm	Maximum size: 403(H) x 302(V) mm
POWER SOURCE	AC 90 to 264 V, 47 to 63 Hz, 160 W (max), less than 15 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) - 40 °C to + 60 °C (storage)
	Operating Humidity	10% RH through 80% RH (without condensation)
CABINET DIMENSIONS	504(H) × 498(W) × 474(D) mm (with stand)	
WEIGHT	31 kg	
TILT/SWIVEL STAND	Tilt Angle	- 5° to + 15°
	Swivel Angle	±90°

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 D2846A	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 P1100 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.

Limitation of Liability and Remedies

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 P1100 Monitor
Model Number: D2846

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 + A1 / EN 55022:1994 - Class B¹
EN 50082-1:1992
IEC 801-2:1992 / prEN 55024-2:1992 - 4kV CD, 8 kV AD
IEC 801-3:1984 / prEN 55024-3:1991 - 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 B² / ICES-003, Issue 2 / VCCI-2¹
AS / NZ 3548:1992

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.

1. This 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 must 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, August 1997

For Compliance Information ONLY, contact: Hewlett-Packard Company, Corporate Product Regulations Manager,
3000 Hanover Street, Palo Alto, CA 94304, USA
Telephone: (415) 857 1501

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.

ENERGY STAR

As an ENERGY STAR Partner, Hewlett Packard has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

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）の基準に基づくクラスB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。
取り扱い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 전자파장해검정을 받은 기기로서 주거지역에서는 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）。

HP P1100 Monitor User's Guide

Regulatory Information



Paper not bleached with chlorine

Part Number: D2846-90001

Printed in Japan 08/97



D2846-90001