

**HP****Vectra****Corporate PCs**

Quick User's Guide



www.hp.com/go/vectrasupport

www.hp.com/desktops/pccafe

Notice

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Important Safety Information

WARNING

If you are in any doubt that you can lift the equipment safely, do not try to move it without help.

For your safety, never remove the PC's cover without first removing the power cord from the power outlet and any connection to a telecommunications network. If a Power Protection Device is fitted to your PC, you must shut down your computer using the on/off switch, then remove the power cord before removing the PC's cover. Remove the Power Protection Device cables before any servicing operation. Always replace the cover before switching the PC on again.

To avoid electric shock, do not open the Power Supply Unit. There are no serviceable parts inside. For your safety only replace with a Power Supply Unit provided by HP Support Services.

Ensure that the electrical power requirements of your PC (refer to the label on the Power Supply Unit) can be suitably provided by your electrical installation.

There is a danger of explosion if the battery is incorrectly installed. For your safety, never attempt to recharge, disassemble, or burn an old battery. Only replace the battery with the same or equivalent type, as recommended by the manufacturer. The battery in this PC is a lithium battery which does not contain any heavy metals. Nevertheless, in order to protect the environment, do not dispose of batteries in household waste. Please return used batteries either to the shop from which you bought them, to the dealer from whom you purchased your PC, or to HP so that they can either be recycled or disposed of in the correct way. Returned batteries will be accepted free of charge.

If you have a modem:

Do not attempt to connect this product to the phone line during a lightning storm. Never install telephone jacks in wet locations unless the telephone line has been disconnected at the network interface. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface. Use caution when installing or modifying telephone lines. Avoid using a telephone (other than a cordless type) during a lightning storm. There may be a risk from lightning.

Do not use the telephone to report a gas leak in the vicinity of the leak

Never touch or remove the communications board without first removing the connection to the telephone network.

Setting Up and Using Your PC

IMPORTANT ERGONOMIC INFORMATION

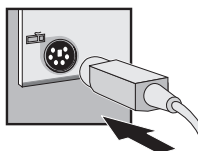
Improper and prolonged use of keyboards and input devices are among those tasks associated with repetitive strain injury (RSI) to soft tissues in the hands and arms. If you do experience discomfort or pains while using any computing equipment, discontinue use immediately and consult your physician as soon as possible.

Your comfort and safety are our primary concern. Consequently, we strongly recommend that you read HP's ergonomic information before using your PC. For detailed information, refer to HP's online version of "Working in Comfort" which is preloaded on your PC's hard disk or visit HP's Working in Comfort Web Site at: www.hp.com/ergo/.

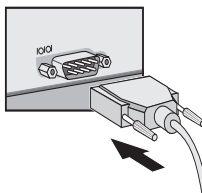
A summary is provided in the "Comfort and Safety Checklist" on page 9.

Connecting Devices

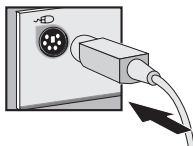
The connectors are color-coded for easy matching. Match the colors. Please note, however, that some monitor connectors may not be color-coded. *The connectors are shaped to go in one way only.*



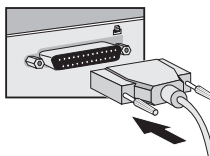
Keyboard (purple)
To connect an HP multimedia keyboard, refer to page 4



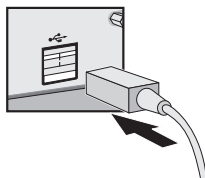
Two 9-pin Serial Connectors (turquoise)



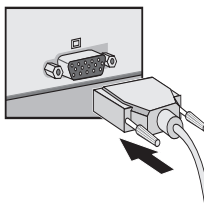
Mouse (green)



25-pin Parallel Connector (burgundy)
To connect the printer to your PC, refer to the manual that came with the printer



Two USB Connectors (black)
USB is supported by:
a) the latest version of Windows 95
b) Windows 98
c) Windows 2000



Monitor
To connect the monitor to your PC, refer to the manual that came with the monitor

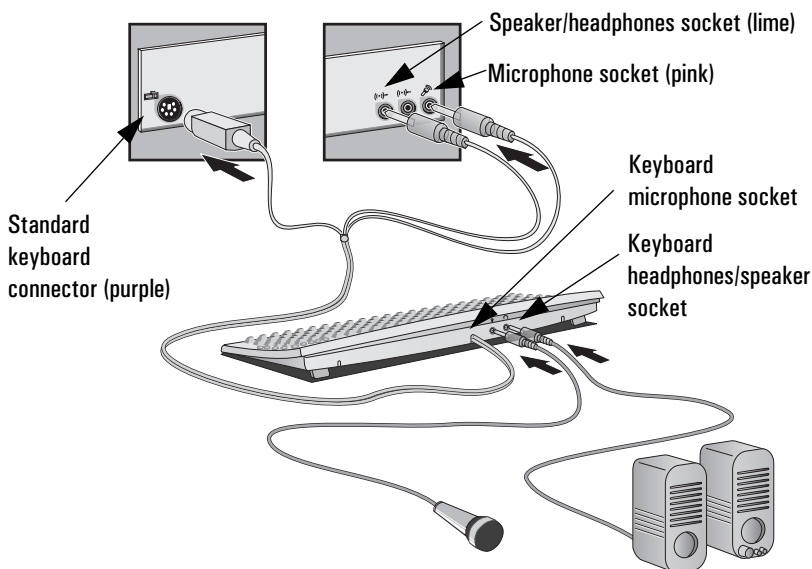
Connecting Multimedia Accessories

WARNING

To avoid electrical shock and harm to your eyes by laser light, do not open the laser module. The laser module should only be serviced by service personnel. Do not attempt to make any adjustment to the laser unit. Refer to the label on the CD-ROM for power requirements and wavelength. This product is a class 1 laser product.

Always turn the volume down before connecting the headphones or speakers. This avoids discomfort from unexpected noise or static. Listening to loud sounds for prolonged periods of time may permanently damage your hearing. Before putting on headphones, place them around your neck and turn the volume down. When you put the headphones on, slowly increase the volume until you find a comfortable listening level. When you are able to hear comfortably and clearly, without distortion, leave the volume in that position.

-
- 1 Connect the HP multimedia keyboard to the PC. *The connectors are color-coded for easy matching.*
 - 2 Connect the microphone and headphones (or amplified speakers) to the keyboard.



NOTE

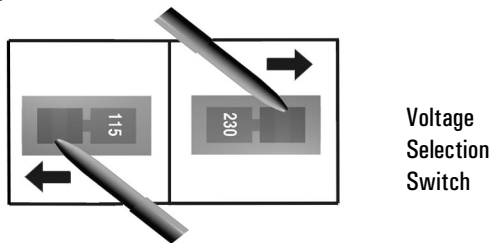
Connect devices such as a smart card reader to both a serial connector and a mouse port (not a keyboard port, which does not provide enough power).

Connecting the Power Cord

WARNING

For your safety always connect equipment to a grounded wall outlet. Always use a power cord with a properly grounded plug, such as the one provided with the equipment, or one in compliance with your national safety standards. This equipment can be disconnected from the power by removing the power cord from the power outlet. This means the equipment must be located close to an easily accessible power outlet.

- 1 Remove the warning label covering the PC's power connector, and *ensure that the voltage setting is correct for your country.* (The voltage is set during manufacture and should already be correct.)



- 2 Connect the power cords to the rear of the monitor and the computer. (*The connectors are shaped to go in one way only.*)
- 3 Connect the monitor's power cord and the computer's power cord to a grounded outlet.

NOTE

Hewlett-Packard does not support power supply upgrades. Power supply installation information is only intended to assist with the replacement of a defective power supply unit. For your safety, only replace your power supply unit with one provided by HP Support Services.

Stopping Your PC

To stop the PC, first make sure that you have exited all applications and then use your operating system's shut down command in the **Start** menu (for Windows NT 4.0, Windows 95, Windows 98 and Windows 2000 operating systems). If you want to force your PC to shut down (for example, after your operating system has crashed), press and hold the power button for approximately 5 seconds.

If Your PC Does Not Start Properly

The PC Doesn't Power On

Have you checked that...

The PC's power cord is correctly connected.

How

Connect the power cord to a working grounded power outlet and the PC.

The Power-On Self Test Results In an Error

An on-screen error message or a beep code when the PC starts up means there is a configuration problem with your PC.

Have you checked...

The part of your configuration for which the Power-On Self Test has detected an error.

How

For more detailed help refer to the troubleshooting information which is available on HP's support web site at:
www.hp.com/go/vectrasupport

If Your PC Has a Hardware Problem

The Monitor Doesn't Work...

The PC's power indicator light works but the monitor remains blank.

Have you checked that...

The monitor is switched ON (LED is on).

The monitor's power cord is correctly connected.

The monitor (video) cable is correctly connected.

The monitor's brightness and contrast settings are correctly set.

How

Refer to the monitor manual for an explanation of the LED signals (green, orange, or blinking).

Connect the power cord – ensure it is plugged into a working grounded power outlet and into the monitor.

Connect the monitor (video) cable – ensure it is properly connected to both the PC and the monitor.

Check the settings using the monitor's OSD (on-screen display) or using controls on the front of the monitor.

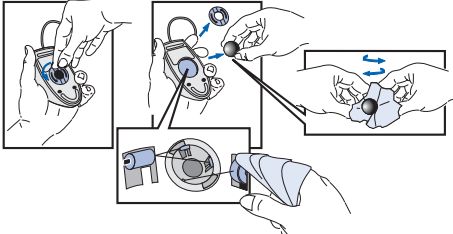
You see an image during boot but then the screen goes blank

Have you checked that...

The monitor settings in your PC are compatible with your monitor.

How

- Windows NT: Enter VGA mode when prompted during start-up.
- Windows 95, Windows 98 & Windows 2000: Restart the PC. The Vectra screen is displayed. For Windows 95 & Windows 98, when you hear a beep, press **F8** and then start the PC in safe mode. For Windows 2000, when prompted, press **F8** and then start the PC in VGA mode. Double-click on the **Display** icon in your PC's **Control Panel**, then click on the **Settings** button. Use the sliding control to reset the resolution.
- For other operating systems, refer to your operating system's documentation.

The Keyboard Doesn't Work...	
<p>Have you checked that...</p> <p>The keyboard cable is correctly connected.</p> <p>The keyboard is clean and no keys are stuck down.</p> <p>The keyboard itself is not defective.</p> <p>You are using the correct driver. If you are using HP's multimedia keyboard, ensure that the correct driver is installed. This driver is provided with all Windows NT 4.0, Windows 95, Windows 98 and Windows 2000 preloaded systems. For other operating systems, refer to your operating system's documentation.</p>	<p>How</p> <p>Plug the cable into the correct connector on the back of the PC. Color coding is used for easy matching.</p> <p>Check all keys are at the same height, and none are stuck.</p> <p>Either replace the keyboard by a known working unit or try the keyboard with another PC.</p> <p>Download the latest driver from HP's Web at: www.hp.com/go/vectrasupport</p>
If the PC starts but you still have a problem...	Run DiagTools.
The Mouse Doesn't Work...	
<p>Have you checked that...</p> <p>The mouse cable is correctly connected.</p> <p>You are using the correct driver. If you are using HP's enhanced mouse, ensure that the correct driver is installed. This driver is provided with all Windows NT 4.0, Windows 95, Windows 98 and Windows 2000 preloaded systems.</p>	<p>How</p> <ol style="list-style-type: none"> 1 Switch off the PC (not necessary with a USB mouse). 2 Plug the cable into the correct connector on the back of the PC. Color coding is used for easy matching. <p>Download the latest driver from HP's Web at: www.hp.com/go/vectrasupport</p>
<p>The mouse is clean.</p>	<p>Clean the mouse ball as shown below.</p> 
The mouse itself is not defective.	Replace the mouse by a known working unit or try the mouse with another PC.
If the PC starts but you still have a problem...	Run DiagTools.

Need More Help?

For more detailed help refer to the troubleshooting information which is available on HP's support web site at:

www.hp.com/go/vectrasupport.

HP DiagTools Hardware Diagnostics Utility

DiagTools, the Vectra Hardware Diagnostics utility, helps you diagnose hardware-related problems on HP Vectra PCs and PC Workstations. For more information about this utility, refer to the *Diagtools User's Guide*, available on the HP web site in PDF (Adobe Acrobat) format.

NOTE

Run DiagTools before contacting HP for warranty service. This is to obtain information that will be requested by a support agent.

Where Can I Get DiagTools?

There are three ways to access DiagTools:

- From the Diagnostics Partition (hidden) on your hard disk drive
- From the *HP Image Creation and Recovery CD-ROM* that came with your PC
- By ordering the *HP DiagTools CD* from HP's Support web site: www.hp.com/go/vectrasupport.

Starting DiagTools from Your Hard Disk Drive's Partition

- 1 Restart your PC and press **F2**, when prompted, to enter HP's *Setup* program.
- 2 Ensure that the **PnP OS** setting in the **Main** menu of your PC's *Setup* program is set to **NO**.
- 3 Restart your PC.
- 4 When the message "Press F10 to start hardware diagnostics" appears after the logo splash screen, press **F10**.

NOTE

This method will only work if you have left the Diagnostics partition on your hard disk drive intact.

Starting DiagTools from the *HP Image Creation & Recovery CD-ROM*

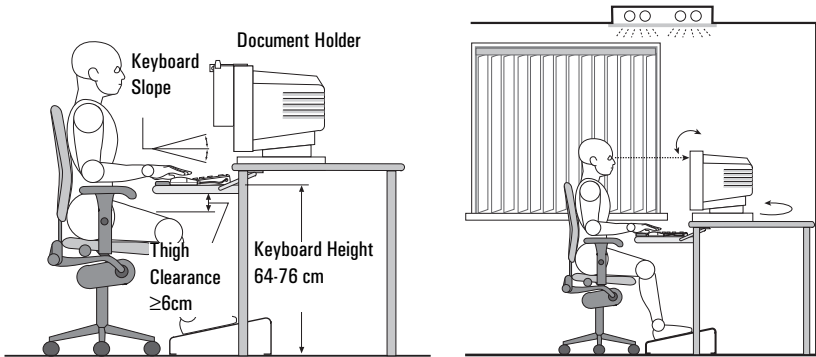
To start DiagTools from the CD-ROM:

- 1 Restart your PC and press **F2**, when prompted, to enter HP's *Setup* program.
- 2 Ensure that your PC's boot order is set so that it will start on the CD-ROM, DVD-ROM CD-RW drive (either in the PC's *Setup* program or by pressing **F8** during startup).
- 3 Insert the *HP Image Creation & Recovery CD-ROM* into the CD-ROM drive.
- 4 Restart the PC.
- 5 The PC will start (boot) from the CD-ROM and display a menu.
- 6 In the menu, select "Run the diagnostics on your PC" and follow the instructions on-screen to carry out the diagnostic tests.

Comfort and Safety Checklist

Preparing Your Work Environment

When using HP computing equipment, it is important that your work environment contributes to your comfort and productivity:



- **Work Surface Height** - Your work surface should be height adjustable. To ensure that your worksurface is at the correct height, first adjust the height of your chair so that your feet are firmly on the floor, then adjust the work surface height until your forearms are parallel to the floor when you have your fingers on the keyboard or other input devices.
- **Chair** - Your chair should provide a comfortable sitting position including features such as a height and tilt adjustment feature, curved seat edge, a stable base (for example, five legs and castors, adjustable back support, a freely rotating swivel, fully adjustable padded arm rests).
- **Monitor** - Place your monitor so that the top of the screen is at, or slightly below, eye level (up to 15 degrees).
- **Work Surface Arrangement** - Make sure that all elements of your HP computer system for example, monitor, document holder, keyboard, mice and other input devices, and headphones and speakers- are optimally arranged and adjusted to meet your personal requirements. For example, if you are primarily using the keyboard, place it directly in front of you, not to the side. If your work involves extensive use of a mouse or other pointing device, place that device directly in front of your left or right arm.

If you are using both a mouse and keyboard, place them both at the same work surface height and close together. If a palm rest is used, the height should be flush with the front edge of the keyboard. Other items, such as your telephone or notepad, should also be considered.

CAUTION

Various aspects of using mice, keyboards and other input devices may increase your risk of discomfort or injury. Optimize your comfort and safety by positioning these devices properly.

Your Work Posture

Sitting in one position for long periods can be uncomfortable. To minimize the potential risk for physical discomfort or injury, it's important that you maintain a proper posture.

- *Head* - When viewing your monitor, your head should not be tilted more than 15 degrees forward, and do not turn your head toward either side.
- *Back* - While sitting at your work surface, make sure your back is supported by the chair's backrest in an erect position or angled slightly backwards.
- *Arms* - Make sure your arms and elbows are relaxed and loose, with your upper arms perpendicular to the floor or tilted downward not more than 15 degrees. Keep your forearms and hands approximately parallel with the floor with elbows bent between 70 and 115 degrees. Keep your elbows close to your sides (less than 20 degrees away from your body).
- *Hands, Wrists, Forearms* - Try to keep your hands wrists and forearms in a relaxed neutral position when using your mouse keyboard or other input devices. For example, while using your keyboard and mouse, rest your forearms (flat) on your desktop.
- *Legs* - Your thighs should be horizontal or angled slightly downward. Your lower legs should be near a right angle to your thighs. Make sure there is sufficient room under the work surface for your legs.
- *Feet* - If after adjusting your chair you cannot rest your feet comfortably on the floor, use a footrest, preferably one that can be adjusted in height and angle.

Overall

- Look away from the screen from time-to-time to help reduce eyestrain. Focus on distant objects briefly, and blink periodically to lubricate your eyes. You also should have your eyes checked on a regular basis and ensure your eyeglass prescription is suitable for working on a computer monitor.
- Remember to occasionally shift position and move your body. Keeping your body in one position for long periods is unnatural and stressful. When prolonged work is required, take frequent short breaks. As a rule of thumb, a five or ten minute break every hour is a good idea. Short frequent breaks are more beneficial than longer less frequent breaks. Data show that people who work for long periods of time without a break may be more prone to ergonomic injury.
- Changing tasks frequently will help prevent muscle stiffness. Examples: alternating between keyboarding, reading, writing, filing, and moving around in your work environment, helps you maintain a relaxed posture. Occasionally stretch the muscles in your hands, arms, shoulders, neck and back. You should stretch at least as often as you take brief task breaks—at least once every hour.
- Discomfort may be alleviated by using alternative ergonomic designs and accessories such as ergonomically personalized chairs, palm rests, keyboard trays, alternative input devices, prescription eyeglasses, anti-glare screens, and more. Seek additional information from the sources available to you, including your employer, doctor, local office supply store, and the *Information Sources* listed in the online version of *Working in Comfort*, preloaded on the hard disk of your HP computing equipment.

Regulatory Statements

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's name: HEWLETT-PACKARD France

Manufacturer's address: 5 Avenue Raymond Chanas-Eybens
38053 GRENOBLE Cedex 09 -FRANCE

Declares that the products:

Product Name Personal Computer

Model Number(s) HP Vectra VL600

Models DT and MT

Conform(s) to the following Product Specifications:

SAFETY

- International: IEC 60950:1991 + A1 + A2 + A3 + A4 / GB4943-1995
- Europe EN 60950:1992 + A1 + A2 + A3 + A4

ELECTROMAGNETIC COMPATIBILITY

- CISPR 22:1993 + A1 + A2 / EN 55022:1994 + A1 + A2 Class B 1)
- EN 50082-1:1992
 - IEC 801-2:1992 / prEN 55024-2:1992 - 4kV CD, 8kV AD
 - IEC 801-3:1984 / prEN 55024-3:1991 - 3V/m
 - IEC 801-4:1988 / prEN 55024-4:1992 - 0.5 kV Signal Lines
1 kV Power Lines
- IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
- IEC 61000-3-3:1994 / EN 61000-3-3:1995
- GB9254-1988
- FCC Title 47 CFR, Part 15 Class B 2)
- ICES-003, Issue 2
- VCCI-B
- AS/NZ 3548:1992

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

EMC Directive 89/336/EEC and 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.

Grenoble

September 1999


Jean-Marc JULIA
Quality Manager

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)

FCC (for USA only)

Federal Communications Commission Radio Frequency Interference Statement

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 correct the interference by one or more of the following measures:

- reorient or relocate the receiving antenna
- increase the separation between the equipment and the receiver
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- consult the dealer or an experienced radio/TV technician for help.

Hewlett-Packard's FCC Compliance Tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you receive with your system. Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

Notice for Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Class B est conforme à la norme NMB-003 du Canada.

Safety Warning for the USA and Canada

If the power cord is not supplied with the computer, select a power cord in accordance with your national electrical specifications.

USA: use a UL listed type SVT detachable power cord.

Canada: use a CSA certified detachable power cord.

For your safety, never remove the PC's cover without first removing the power cord from the power outlet and any connection to a telecommunications network. Always replace the cover before switching the PC on again

(If lithium battery is used)

There is a danger of explosion if the battery is incorrectly installed. For your safety, never attempt to recharge, disassemble, or burn an old battery. Only replace the battery with the same or equivalent type, as recommended by the manufacturer. The battery in this PC is a lithium battery which does not contain any heavy metals. Nevertheless, in order to protect the environment, do not dispose of batteries in household waste. Please return used batteries either to the shop from which you bought them, to the dealer from whom you purchased your PC, or to HP so that they can either be recycled or disposed of in the correct way. Returned batteries will be accepted free of charge.

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

Canada: utiliser un cordon secteur certifié CSA.

Pour votre sécurité, ne pas enlever le capot de cet équipement avant de débrancher le cordon secteur et toute connexion au réseau de télécommunication. Remettez toujours le capot avant de mettre sous tension

(En cas d'utilisation de pile au lithium)

Il y a danger d'explosion lorsque la pile n'est pas installée correctement. Pour votre sécurité, ne jamais essayer de recharger, de démonter ou de brûler l'ancienne pile. Remplacer uniquement avec une pile du même type ou d'un type équivalent recommandé par le constructeur. La pile

Regulatory Statements

dans cet ordinateur est une pile au lithium qui ne contient pas de métaux lourds, néanmoins, afin de protéger l'environnement, ne jetez pas les piles dans les ordures ménagères. Rendez les où vous les avez achetées, au revendeur où vous avez acheté votre ordinateur ou à Hewlett Packard, pourqu'elles soient recyclées ou rangées de manière qui ne nuit pas à l'environnement. Les piles usées seront acceptées gratuitement.

Warnung

Wenn die Batterie nicht korrekt eingebaut wird, besteht Explosionsgefahr. Zu ihrer eigenen Sicherheit sollten Sie nicht versuchen, die Batterie wiederaufzuladen, zu zerlegen oder die alte Batterie zu verbrennen. Tauschen Sie die Batterie nur gegen den gleichen oder ähnlichen Typ aus, der vom Hersteller empfohlen wird. Bei der in diesem PC integrierten Batterie handelt es sich um eine Lithium-Batterie, die keine Schwermetalle enthält. Batterien und Akkumulatoren gehören nicht in den Hausmüll. Sie werden vom Hersteller, Händler oder deren Beauftragten kostenlos zurückgenommen, um sie einer Verwertung bzw. Entsorgung zuzuführen.

Notice for the Netherlands



Bij dit apparaat zijn batterijen geleverd. Wanneer deze leeg zijn, moet U ze niet weggooien maar inleveren als KCA.

Hinweis für Deutschland: Geräuschemission

Lärmangabe nach Maschinenlärverordnung - 3 GSGV (Deutschland):
LpA < 70 dB am Arbeitsplatz bei normalem Betrieb nach DIN 45635 T.19
(under normal use in the workplace, as per ISO 7779).

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）の基準に基づきクラス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。

This equipment is in the Class B category information technology equipment based on the rules of the Voluntary Control Council For Interference by Information Technology Equipment (VCCI). Although aimed for residential area operation, radio interference may be caused when used near a radio or TV receiver. Read the instructions for correct operation.

Notice for Korea

사용자 안내문 (B급 기기)

이 기기는 비업무용으로 전자파장애검정을 받은 기기로서, 주거지역에서는 물론 모든 지역에서 사용될 수 있습니다.

HP Hardware Warranty

General

This HP Hardware Warranty statement gives you, the customer, express warranty rights from HP, the Manufacturer. Please refer to HP's web site for an extensive description of your warranty entitlements. In addition, you may also have other legal rights under applicable local law or special written agreement with HP.

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 BUT ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU. THE LAWS OF YOUR COUNTRY MAY PROVIDE FOR DIFFERENT WARRANTY RIGHTS. IF SO, YOUR HP AUTHORIZED SUPPORT PROVIDER OR HP SALES AND SERVICE OFFICE CAN PROVIDE YOU WITH DETAILS.

Warranty Repair or Replacement

HP Hardware

During the applicable warranty period, HP warrants that your HP Hardware, Accessory or Supply will be free from defects in materials and workmanship. Except as indicated above, however, HP does not warrant that any HP Hardware, Accessory or Supply will operate uninterrupted or error-free.

During the product warranty period, HP will, within a reasonable time, repair your product or if unable to repair, refund (in the amount of the product purchase price) upon prompt return of the product to your HP Authorized Support Provider or other HP designate. Unless otherwise stated or agreed upon in writing with HP, all hardware components must be returned for refund with the entire central processor unit.

The central processor unit (CPU), keyboard, mouse, and Hewlett-Packard accessories inside the system unit at time of purchase—such as video adapters, mass storage devices, and interface controllers—are covered by this warranty.

HP products external to the system unit—such as external storage subsystems, monitors, printers, and other peripherals and accessories added at a later stage—are covered by the applicable warranties for those products.

HP does NOT provide support for this product configured as a network server.

Unless otherwise stated, and to the extent permitted by local law, hardware products may contain remanufactured parts (equivalent to new in performance) or parts subject to prior incidental use. HP may repair or replace hardware products (i) with equivalent products to the products being repaired or replaced but which may have been subject to prior use, (ii) with products containing remanufactured parts equivalent to new in performance or parts which may have been used, or (iii) with equivalent products to an original product that has been discontinued.

Non-HP Hardware

All *non-HP* products or peripherals external to the central processor unit—such as external storage subsystems, monitors, printers, and other peripherals—are covered by the applicable vendor warranties for those products.

Proof of Purchase and Warranty Period

In order to receive support for your hardware and software product for the applicable warranty period, proof of the original purchase date may be required, otherwise the manufacturer's date (located on the product) becomes the beginning of the warranty period.

Exclusions

Warranty does not apply to defects resulting from: (a) improper or inadequate maintenance or calibration; (b) software, interfacing, parts or supplies not supplied by HP; (c) unauthorized repair, maintenance, modification or misuse; (d) operation outside of the published operating specifications for the product; (e) improper site preparation or maintenance; (f) virus infection; or (g) such other exclusions as may be expressly set forth in this Warranty Statement.

Limitation of Implied Warranties

TO THE EXTENT ALLOWED BY APPLICABLE LOCAL LAW, ANY IMPLIED WARRANTY BY THE MANUFACTURER OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE OR OTHER IMPLIED WARRANTIES ARE HEREBY LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY.

HP Hardware Warranty

Exclusive Remedy

TO THE EXTENT ALLOWED BY APPLICABLE LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT) OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT OR OTHERWISE.

HP Hardware Warranty Options

THESE HP HARDWARE WARRANTY OPTIONS ARE SPECIFIC TO THIS HP HARDWARE PRODUCT. THEY COMPLEMENT THE GENERAL HARDWARE AND SOFTWARE WARRANTY STATEMENTS FOUND ON HP'S WEB SITE AND SUPERSEDE ANY WARRANTY TERMS THAT MAY BE FOUND ONLINE, OR IN ANY DOCUMENTATION OR MATERIALS CONTAINED IN THE COMPUTER PRODUCT PACKAGING.

Warranty Entitlements
5-Year Limited Hardware Warranty: 5-Year Free Parts Exchange Service
5-Year Limited Hardware Warranty: 5-Year On-Site Service
3-Year Limited Hardware Warranty: 3-Year On-Site Service
3-Year Limited Hardware Warranty: 1st Year On-Site Service, 3-Year Free Parts Exchange Service.
3-Year Limited Hardware Warranty: 3-Year Free Parts Exchange Service
3-Year Limited Hardware Warranty: 3-Year Return for Repair Service
1-Year Limited Hardware Warranty: 1-Year On-Site Service
1-Year Limited Hardware Warranty: 1-Year Free Parts Exchange Service
30-Day Limited Hardware Warranty: 30-Day Free Parts Exchange or Product Return Service

HP warrants this hardware product against defects in materials and workmanship, for one (1) of the *Warranty Entitlements* above, from the date of purchase. Please refer to the **Warranty Entitlement Information** provided on the back cover of this guide.

NOTE

Neither HP nor any of its designates guarantee that all of the above Warranty Entitlements will be available in your country. Please consult your local HP Sales and Service Office or HP Authorized Support Provider.

HP Validation and Service Options

If HP receives notice of a defect in your HP hardware product during the hardware product's warranty period, HP or its designate may, at its option and depending on warranty entitlement:

- 1 Repair the parts which prove to be defective *OR*,
- 2 Replace the parts which prove to be defective *OR*,
- 3 Provide, the customer, with the appropriate part(s) required for repair. In this event, HP may:
 - Provide you with written instructions for replacing the defective part(s).
 - Provide free telephone assistance for installation of the replacement component.
 - Prepay shipping charges, duties, and taxes for replacement parts sent to you as well as for any parts that HP asks to be returned. You will be billed for any defective part(s) not returned as requested by HP.

NOTE

HP reserves the right to validate any claims of defective products or components before repairing or replacing such products or components. Run HP DiagTools (HP Diagnostics Utility) before contacting HP for warranty service. This is to obtain information that will be requested by a support agent.

International Warranty

This warranty is extended worldwide under certain conditions to products which are reshipped by the original purchaser either for his own use or provided as an incidental part of systems integrated by the original purchaser. When available in the country of use, service is provided in the same manner as if the product was purchased in that country and can only be provided in countries where the product is designed to operate. Also, standard warranty service response time is subject to change due to local parts availability. *If the product is not normally sold by HP in the country of use, it may need to be returned to the country of purchase for service.* Please check with your local HP Sales and Service Office or HP Authorized Support Provider for more information.

HP Software Product License Agreement

Your HP PC contains preinstalled software programs. Please read the Software License Agreement before proceeding.

CAREFULLY READ THIS LICENSE AGREEMENT AND LIMITED WARRANTY STATEMENT BEFORE PROCEEDING TO OPERATE THIS EQUIPMENT. RIGHTS IN THE SOFTWARE ARE OFFERED ONLY ON THE CONDITION THAT THE CUSTOMER AGREES TO ALL TERMS AND CONDITIONS OF THE LICENSE AGREEMENT. PROCEEDING TO OPERATE THE EQUIPMENT INDICATES YOUR ACCEPTANCE OF THESE TERMS AND CONDITIONS. IF YOU DO NOT AGREE WITH THE TERMS OF THE LICENSE AGREEMENT, YOU MUST NOW EITHER REMOVE THE SOFTWARE FROM YOUR HARD DISK DRIVE AND DESTROY THE MASTER DISKETTES, OR RETURN THE COMPLETE COMPUTER AND SOFTWARE FOR A FULL REFUND. PROCEEDING WITH CONFIGURATION SIGNIFIES YOUR ACCEPTANCE OF THE LICENSE TERMS.

UNLESS OTHERWISE STATED BELOW, THIS HP SOFTWARE PRODUCT LICENSE AGREEMENT SHALL GOVERN THE USE OF ALL SOFTWARE THAT IS PROVIDED TO YOU, THE CUSTOMER, AS PART OF THE HP COMPUTER PRODUCT. IT SHALL SUPERSEDE ANY NON-HP SOFTWARE LICENSE TERMS THAT MAY BE FOUND ONLINE, OR IN ANY DOCUMENTATION OR OTHER MATERIALS CONTAINED IN THE COMPUTER PRODUCT PACKAGING.

Note: Operating system and software applications by Microsoft are licensed to you under the Microsoft License Agreement contained in the Microsoft documentation or displayed on your screen when Microsoft Software Products are launched.

The following License Terms govern the use of the software:

USE. Customer may use the software on any one computer. Customer may not network the software or otherwise use it on more than one computer. Customer may not reverse assemble or decompile the software unless authorized by law.

COPIES AND ADAPTATIONS. Customer may make copies or adaptations of the software (a) for archival purposes or (b) when copying or adaptation is an essential step in the use of the software with a computer so long as the copies and adaptations are used in no other manner.

OWNERSHIP. Customer agrees that he/she does not have any title or ownership of the software, other than ownership of the physical media. Customer acknowledges and agrees that the software is copyrighted and protected under the copyright laws. Customer acknowledges and agrees that the software may have been developed by a third party software supplier named in the copyright notices included with the software, who shall be authorized to hold the Customer responsible for any copyright infringement or violation of this Agreement.

PRODUCT RECOVERY CD-ROM. If your computer was shipped with a product recovery CD-ROM:

- (i) The product recovery CD-ROM and/or support utility software may only be used for restoring the hard disk of the HP computer with which the product recovery CD-ROM was originally provided.
- (ii) The use of any operating system software by Microsoft contained in any such product recovery CD-ROM shall be governed by the Microsoft License Agreement.

TRANSFER OF RIGHTS IN SOFTWARE. Customer may transfer rights in the software to a third party only as part of the transfer of all rights and only if Customer obtains the prior agreement of the third party to be bound by the terms of this License Agreement. Upon such a transfer, Customer agrees that his/her rights in the software are terminated and that he/she will either destroy his/her copies and adaptations or deliver them to the third party.

SUBLICENSING AND DISTRIBUTION. Customer may not lease, sublicense the software or distribute copies or adaptations of the software to the public in physical media or by telecommunication without the prior written consent of Hewlett-Packard.

TERMINATION. Hewlett-Packard may terminate this software license for failure to comply with any of these terms provided Hewlett-Packard has requested Customer to cure the failure and Customer has failed to do so within thirty (30) days of such notice.

UPDATES AND UPGRADES. Customer agrees that the software does not include updates and upgrades which may be available from Hewlett-Packard under a separate support agreement.

HP Software Product License Agreement

EXPORT CLAUSE. Customer agrees not to export or re-export the software or any copy or adaptation in violation of the U.S. Export Administration regulations or other applicable regulation.

U.S. GOVERNMENT RESTRICTED RIGHTS. Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause in DFARS 252.227-7013. Hewlett-Packard Company, 3000 Hanover Street, Palo Alto, CA 94304 U.S.A. Rights for non-DOD U.S. Government Departments and Agencies are as set forth in FAR 52.227-19(c)(1,2).

HP Software Product Limited Warranty

THIS HP SOFTWARE PRODUCT LIMITED WARRANTY SHALL COVER SOFTWARE THAT IS PROVIDED TO YOU, THE CUSTOMER, AS PART OF THE HP COMPUTER PRODUCT, INCLUDING ANY OPERATING SYSTEM SOFTWARE. IT SHALL SUPERSEDE ANY NON-HP WARRANTY TERMS THAT MAY BE FOUND ONLINE, OR IN ANY DOCUMENTATION OR OTHER MATERIALS CONTAINED IN THE COMPUTER PRODUCT PACKAGING.

HP Software

Ninety-Day Limited Software Warranty

HP warrants for a period of NINETY (90) DAYS from the date of the purchase that all pre-installed HP software products will execute their programming instructions when all files are properly installed. HP does not warrant that the software will be uninterrupted or error free. In case of software failure to execute its programming instructions during the warranty period customer's remedy will be the replacement of software provided by HP or a refund upon return of the product and all copies of software, installation instructions and assistance.

Removable Media (if supplied)

HP warrants the removable media, if supplied, upon which this product is recorded to be free from defects in materials and workmanship under normal use for a period of NINETY (90) DAYS from the date of purchase. Customers remedy in case of defect will be the replacement of media provided by HP or a refund upon return of the product and destruction of all other non-removable media copies of the software products.

Other Software

All other software is warranted by the software vendor and is *not* warranted by HP.

Operating System

HP warrants for a one (1) year period from the date of the purchase the installation and configuration of the pre-installed version of the operating system. HP does not warrant that the software will be uninterrupted or error free. In the event of software failure to execute its programming instructions during the warranty period, HP will provide the Customer with non-defective software along with re-installation instructions or assistance.

HP Service Procedures

Notice of Warranty Claims

Customer must notify HP in writing of any warranty claim not later than thirty (30) days after the expiration of the warranty period.

Limitation of Warranty

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 90-day duration of this written warranty.

Limitation of Liability and Remedies

THE REMEDIES PROVIDED ABOVE ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL HP BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFIT) WHETHER BASED ON WARRANTY, CONTRACT, TORT OR ANY OTHER LEGAL THEORY. This warranty in no way effects Customers right under statutory law.

Obtaining Warranty Service

Warranty Service may be obtained from the nearest HP sales office or in other locations indicated on HP's Web Site.

Technical Characteristics

As an ENERGY STAR partner, HP has determined that this product meets the ENERGY STAR guidelines for energy efficiency (Windows 98 and Windows 95 only). To check power consumption figures, refer to the following table.

Characteristics	Desktop PC	Minitower PC
Weight (configuration with 1 CD-ROM drive, excluding keyboard and display)	10kg (22 pounds)	13.4 kg (29.5 pounds)
Dimensions	Width: 43.5 cm (17.13 inches) Height: 13.5 (5.32 inches) Depth: 43 cm (16.93 inches)	Width: 20.6 cm (8.1 inches) Height: 49.9 cm (18.5 inches) Depth: 45.5 cm (17.9 inches)
Footprint	0.187 m ² (2.01 ft ²)	0.094 m ² (1.01 ft ²)
Acoustic noise emission (ISO 7779) Operating (idle):	Sound Power: LwA ≤ 37 dBA Sound Pressure: LpA ≤ 32 dBA	
Power Supply	Input Voltage: 100-127 V 4.0A, 200-240V 2.0A ac (voltage selection switch) Input Frequency: 50/60 Hz Maximum output power: 120W continuous	Input Voltage: 100-127 V 6.0A, 200-240V 3.0A ac (voltage selection switch) Input Frequency: 50/60 Hz Maximum output power: 200W continuous
Power consumption - Windows 98 Suspend:	115V / 60 Hz 30W	230V / 50 Hz 30 W
Storage Humidity	8% - 85% (relative), non-condensing at 40°C (104°F)	

Notes

Operating temperature and humidity ranges may vary depending on the mass storage devices installed. High humidity levels can cause improper operation of disk drives. Low humidity ranges can aggravate static electricity problems and cause excessive wear of the disk surface.

The power consumption and acoustics figures given in the tables above are valid for the standard configuration as shipped. For more information, refer to the product's data sheet at HP's web site: www.hp.com/desktop

When the computer is turned off with the power button on the front panel, the power consumption falls below 3W, but it is not zero. The special on/off method used by these computers considerably extends the lifetime of the power supply. To reach zero power consumption in "off" mode, either unplug the power outlet or use a power block with a switch.

Further Information on Your PC

This *Quick User's Guide* is designed for an experienced user and is just part of the information available for your PC. It provides you with essential information on setup, troubleshooting, and ergonomics.

For ecological reasons we have made this guide small. If you require additional information, you can order the *HP Information CD-ROM* (see below), or access HP's web site, which contains a wide range of information, including downloadable documentation, service and support options, and the latest version of drivers and utilities.

For support information: **www.hp.com/go/vectrasupport**

For a web-based user club for after-sales services and information: **www.hp.com/desktops/pccafe**

HP Information CD-ROM

The *HP Information CD-ROM* contains complete information for your PC:

- Product Overview
- Setting Up and Installing the PC
- Using the PC
- Installing Accessories
- Troubleshooting the PC
- Servicing the PC
- Warranty and Support Service

You can order your *HP Information CD-ROM* from HP's web site at **www.hp.com/go/vectrasupport** or fill out the order form on the opposite page and fax it to the number on the form.

PRODUCT FORM

Title:	Information CD ROM
Part Number:	5011-8109

Do you want an *HP Information CD-ROM*?

To order your *HP Information CD-ROM* from the web:

- 1 Go to **www.hp.com/go/vectrasupport**, then select **Manuals**
- 2 Select **VL600**, then select **HP Information CD-ROM**

To order your *HP Information CD-ROM* by fax, fill out the order form below and fax it to the following number:

Worldwide Fax Number:	+33 320 699 877
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PRODUCT INFORMATION:

Number of Kits:	Europe <i>Euro</i>			USA / Latin America/Asia <i>U.S\$</i>		
	1	5	20	1	5	20
Worldwide Price						
<i>Standard Post</i>	12.00	29.00	76.00	12.00	30.00	80.00
<i>Express Mail</i>	38.00	67.00	167.00	40.00	70.00	175.00

Above prices do not include sales taxes (if applicable): transport is included

.....✂.....

ORDER FORM

Title:	Information CD ROM
Part Number:	5011-8109

A) ORDERING INFORMATION:

1) Number of *Information CD-ROMs*: ☐ 1 ☐ 5 ☐ 20

2) Mail: ☐ *Express* ☐ *Standard*

3) Currency: ☐ U.S\$ ☐ EURO

TOTAL AMOUNT=

B) CUSTOMER INFORMATION:

4) Name:

5) Company:

6) Address:

7) Postal Code:

8) City:9) State: Country:

10) Fax: 11) Tel:

C) PAYMENT

☐ **Other** ☐ **Visa** ☐ **Mastercard** ☐ **AMEX**

Credit Card Number:

Expiry Date of Card:

Signature:

Recycling Your PC

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

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

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 into 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.

Warranty Entitlement Information

(affix label here for other warranty options)

Standard 3-Year Limited Hardware Warranty

3-Year On-site for the central processing unit

3-Year Free Parts Exchange Service for the keyboard and mouse.

Part Number 5969-3877-EN (Rev: 02)

Printed 11/99 in



5969-3877-EN