

# Safety and Regulatory Information

---

Business PCs



© Copyright 2006 Hewlett-Packard  
Development Company, L.P.

The information contained herein is subject  
to change without notice.

The only warranties for HP products and  
services are set forth in the express warranty  
statements accompanying such products  
and services. Nothing herein should be  
construed as constituting an additional  
warranty. HP shall not be liable for technical  
or editorial errors or omissions contained  
herein.

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

Safety and Regulatory Information

Business PCs

First Edition (August 2006)

Document Part Number: 418213–001

## About This Book

This guide provides safety and regulatory information that is compliant with U.S., Canadian, and International regulations for the above products.



---

**WARNING!** Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.

---



---

**CAUTION** Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

---



---

**NOTE** Text set off in this manner provides important supplemental information.

---



# Table of contents

## 1 Safety Notices

|                                                 |   |
|-------------------------------------------------|---|
| Battery Replacement Notice .....                | 1 |
| German Ergonomics Notice .....                  | 1 |
| Laser Safety .....                              | 2 |
| CDRH Regulations .....                          | 2 |
| Compliance with International Regulations ..... | 2 |
| Laser Product Label .....                       | 2 |
| Laser Information .....                         | 3 |
| Power Cord Set Requirements .....               | 3 |
| General Requirements .....                      | 3 |
| Japanese Power Cord Requirements .....          | 3 |

## 2 Regulatory Agency Notices

|                                                                                            |   |
|--------------------------------------------------------------------------------------------|---|
| Electromagnetic Compatibility Notices .....                                                | 5 |
| Federal Communications Commission Notice .....                                             | 5 |
| Modifications .....                                                                        | 5 |
| Cables .....                                                                               | 5 |
| Declaration of Conformity for Products Marked with the FCC Logo (United States only) ..... | 5 |
| Canadian Notice .....                                                                      | 6 |
| Avis Canadien .....                                                                        | 6 |
| European Union Regulatory Notice .....                                                     | 6 |
| Japanese Notice .....                                                                      | 6 |
| Korean Notice .....                                                                        | 7 |
| Environmental Agency Notices .....                                                         | 7 |
| Disposal of Waste Equipment by Users in Private Household in the European Union .....      | 7 |
| Energy Star Compliance .....                                                               | 7 |
| Restriction of Hazardous Substances (RoHS) .....                                           | 7 |
| Swedish Environmental Information .....                                                    | 8 |
| German Acoustics Notice .....                                                              | 8 |



# 1 Safety Notices

## Battery Replacement Notice



**WARNING!** The product may contain an internal lithium manganese dioxide, vanadium pentoxide, or alkaline battery or battery pack. There is risk of fire and burns if the battery pack is not handled properly. To reduce the risk of personal injury:

- Do not attempt to recharge the battery.
- Do not expose to temperatures higher than 60° C (140° F).
- Do not disassemble, crush, puncture, short external contacts, or dispose of in fire or water.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Replace only with the HP spare designated for this product.

For information about removing a battery, refer to your computer documentation.

HP encourages customers to recycle used electronic hardware, HP original print cartridges, and rechargeable batteries. For more information about recycling programs, go to [www.hp.com/recycle](http://www.hp.com/recycle).



Batteries, battery packs, and accumulators should not be disposed of together with the general household waste. In order to forward them to recycling or proper disposal, please use the public collection system or return them to HP, an authorized HP partner, or their agents.

## German Ergonomics Notice

HP products which bear the "GS" approval mark, when forming part of a system comprising HP brand products, keyboards and monitors that bear the "GS" approval mark, meet the applicable ergonomic requirements. The installation guides included with the product provide configuration information.

# Laser Safety

**For products equipped with optical drives or fiber optic transceivers.**

This product may be provided with an optical storage device (i.e., CD or DVD drive) and/or fiber optic transceiver. Each of these devices contains a laser that is classified as a Class 1 Laser Product in accordance with US FDA regulations and the IEC 60825-1. The product does not emit hazardous laser radiation.

Each laser product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated May 27, 2001; and with IEC 60825-1:1993/A2:2001.



**WARNING!** Use of controls or adjustments or performance of procedures other than those specified herein or in the laser product's installation guide may result in hazardous radiation exposure. To reduce the risk of exposure to hazardous radiation:

- Do not try to open the module enclosure. There are no user-serviceable components inside.
- Do not operate controls, make adjustments, or perform procedures to the laser device other than those specified herein.
- Allow only HP Authorized Service technicians to repair the unit.

## CDRH Regulations

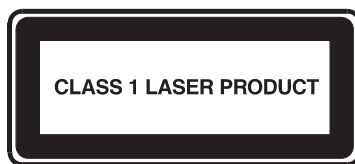
The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured from August 1, 1976. Compliance is mandatory for products marketed in the United States.

## Compliance with International Regulations

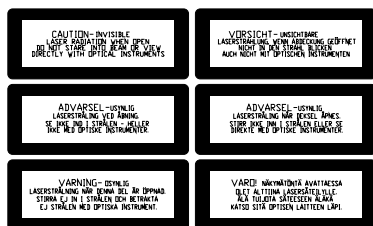
All systems equipped with CD-ROM drives comply with appropriate safety standards including IEC 825.

## Laser Product Label

The following label or equivalent is located on the surface of laser products:



This label indicates that the product is classified as a CLASS 1 LASER PRODUCT. This label appears on a laser device installed in the product.



This label or similar may appear next to the Class 1 Laser Product label on the system.

## Laser Information

- Laser Type: Semiconductor GaAlAs
- Wave Length: 780 +/- 35 nm
- Divergence Angle: 53.5 Degrees +/- 0.5 degrees
- Output Power: Less than 0.2 mW or 10,869 W·m<sup>-2</sup> sr<sup>-1</sup>
- Polarization: Circular 0.25
- Numerical Aperture: 0.45 +/- 0.04

## Power Cord Set Requirements

The power supplies on some products have external power switches. The voltage select switch feature on the product permits it to operate from any line voltage between 100-120 or 220-240 volts AC. Power supplies on those products that do not have external power switches are equipped with internal switches that sense the incoming voltage and automatically switch to the proper voltage.

The power cord set received with the product meets the requirements for use in the country where you purchased the equipment.

Power cord sets for use in other countries must meet the requirements of the country where you use the product. For more information on power cord set requirements, contact your authorized HP dealer, reseller, or service provider.

## General Requirements

The requirements listed below are applicable to all countries:

1. The power cord must be approved by an acceptable accredited agency responsible for evaluation in the country where the power cord set will be installed.
2. The diameter of the wire must be a minimum of 0.75 mm<sup>2</sup> or 18AWG, and the length of the cord must be between 1.8 m (6 feet) and 3.6 m (12 feet).

The power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.



**WARNING!** Do not operate this product with a damaged power cord set. If the power cord set is damaged in any manner, replace it immediately.

## Japanese Power Cord Requirements

For use in Japan, use only the power cord received with this product.



**CAUTION** Do not use the power cord received with this product on any other products.



## 2 Regulatory Agency Notices

### Electromagnetic Compatibility Notices

#### Federal Communications Commission Notice

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 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 or television technician for help.

#### Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett-Packard Company may void the user's authority to operate the equipment.

#### Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

#### Declaration of Conformity for Products Marked with the FCC Logo (United States only)

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.

For questions regarding the product, contact:

Hewlett-Packard Company P. O. Box 692000, Mail Stop 530113 Houston, Texas 77269-2000

Or, call 1-800-HP-INVENT (1-800-474-6836).

For questions regarding this FCC declaration, contact:

Hewlett-Packard Company P. O. Box 692000, Mail Stop 510101 Houston, Texas 77269-2000

Or, call (281) 514-3333.

To identify this product, refer to the part, series, or model number found on the product.

## Canadian Notice

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

## Avis Canadien

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

## European Union Regulatory Notice

This product complies with the following EU Directives:

- Low Voltage Directive 73/23/EEC
- EMC Directive 89/336/EEC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by Hewlett-Packard for this product or product family.

This compliance is indicated by the following conformity marking placed on the product:



This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g., Bluetooth).



This marking is valid for EU non-harmonized Telecom products.



\*Notified body number (used only if applicable - refer to the product label).

## Japanese Notice

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。

取扱説明書に従って正しい取り扱いをして下さい。

## Korean Notice

### B급 기기 (가정용 정보통신기기)

이 기기는 가정용으로 전자파적합등록을 한 기기로서  
주거지역에서는 물론 모든지역에서 사용할 수 있습니다.

## Environmental Agency Notices

### Disposal of Waste Equipment by Users in Private Household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

### Energy Star Compliance

HP business desktop products marked with the Energy Star Logo are compliant with the U.S. Environmental Protection Agency (EPA) Energy Star Computers Program. The EPA Energy Star Logo does not imply endorsement by the EPA. As an Energy Star Partner, Hewlett-Packard Company has determined the products marked with the Energy Star Logo meet the Energy Star guidelines for energy efficiency.

The Energy Star Computers Program was created by the EPA to promote energy efficiency and reduce air pollution through more energy-efficient equipment in homes, offices, and factories. Products achieve this by reducing the power consumption when not being used.

The Power Management feature, when used in conjunction with an external Energy Star-compliant monitor, will support the power-down features of the monitor. The Power Management feature allows an external monitor to go into low-power mode when the energy save timeout occurs. To take advantage of this energy savings, the monitor Power Management feature has been preset to power down the monitor after 15 minutes of system inactivity.



**CAUTION** Using the Energy Save Monitor feature with non-Energy Star compliant monitors may cause video distortion when the Energy Save timeout occurs.

### Restriction of Hazardous Substances (RoHS)

A Japanese regulatory requirement, defined by specification JIS C 0950, 2005, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006. To view the JIS C 0950 material declaration for this product, visit <http://www.hp.com/go/jisc0950>.

2005年、日本における製品含有表示方法、JISC0950が公示されました。製造事業者は、2006年7月1日以降に販売される電気・電子機器の特定化学物質の含有に付きまして情報提供を義務付けられました。製品の部材表示に付きましては、[www.hp.com/go/jisc0950](http://www.hp.com/go/jisc0950) を参照してください。

## Swedish Environmental Information

For Swedish environmental information, visit the HP Web site at:

<http://www.hp.se/miljo>

## German Acoustics Notice

LpA is < 70dB(A)

Schalldruckpegel LpA = kleiner 70 dB(A)

Am Arbeitsplatz (operator position)

Normaler Betrieb (normal operation)

Nach ISO 7779:1999 (Typprüfung)