HP Designjet High Speed Dryer - 104 inch

User's guide



Legal notices

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 statement 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.

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1 Introduction

Thank you for purchasing the HP Designjet High Speed Dryer - 104 inch (hereafter called the dryer).

The dryer is used near the printer's paper outlet to dry the ink printed on the paper efficiently.

The dryer helps the printer to maximize its high-speed printing capability.

Features of the dryer:

Quick dry in response to high-speed printing

Dries the paper by warm air from the paper outlet which is the paper path from the printer to the winding unit.

24-hour timer

Sets drying time by the timer for up to 24 hours in units of one hour, allowing energy saving and highly efficient drying.



NOTE The dryer dries the paper, but it takes more time to dry the ink on the paper. If processes such as laminating are needed after printing, it is not recommended to do it just after the paper is discharged from the printer. Some paper types cannot dry completely even with the dryer. If this is the case, set a scan wait time from the operation panel of the printer.

Safety precautions

Warnings

Failure to follow these guidelines could result in serious personal injury or death.

- Use the power supply voltage specified on the nameplate. Doing otherwise may cause fire or electric shock.
- The operation of the dryer releases volatile organic compounds from the inks into the work area. Install and operate the dryer only in a well-ventilated area. In some cases, installing an extraction hood near the dryer may be necessary to remove ink fumes from the work area.
- Avoid overloading the printer's electrical outlet with multiple devices.
- Make sure the dryer is well grounded. If not, a short circuit may cause fire or electric shock.
- Do not disassemble or remodel the dryer. Do not repair the dryer yourself. Doing so may cause fire, electric shock, or other accidents.

- Do not damage, break, process, or heat the power cable. Using a damaged power cable may cause fire or electric shock.
- Do not remove the covers attached to the dryer because they contain high-voltage and extremely hot parts. Careless removal might result in an electric shock or burn.
- Never use the dryer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquids get into the dryer, it could lead to fire, electric shock, or other serious accidents.
- Do not remove the covers attached to the dryer, because the dryer contains high-voltage and extremely hot parts. Removal might result in an electric shock or burn.
- Do not allow metal or liquids to touch the internal parts of the dryer, which may cause fire, electric shock, or other accidents.
- Do not disconnect or connect the power cable with wet hands. Doing so may lead to electric shock.
- Turn off the dryer and unplug the power cable from the power outlet in any of the following cases:
 - When placing your hands inside the dryer.
 - If there is smoke or an unusual smell coming from the dryer.
 - If the dryer is making an unusual noise not heard during normal operation.
 - If a piece of metal or a liquid (not part of cleaning and maintenance routines) touches internal
 parts of the dryer.
 - If an error code is displayed on the front panel that requires attention from a service engineer.
 - During an electrical (thunder/lightning) storm.
 - During a power failure.

Cautions

Failure to follow these guidelines could result in minor personal injury or damage to the product.

- Handle the dryer carefully because it is very heavy. If you drop it, it could cause personal injury.
- Hold the electric cable by the plug when connecting or disconnecting it. Failing to do so may cause
 the cable to fray or break which could lead to electric shock and/or fire.
- Do not install the dryer on an unsteady or inclining surface. If you drop the dryer or it falls over, it could cause personal injury.
- The dryer gets hot. Take care not to touch the hot parts to avoid being injured.

Handling precautions

Power supply

- Install the dryer near a power outlet that is easy to access.
- Do not connect the dryer to the power supply which connects a motor or other machines generating noise.

- The dryer operates on 180-253 V, 50/60 Hz AC power, single-phase. Ensure that the power outlet meets the voltage and current requirements of the dryer. See <u>Specifications</u> for details.
- Do not connect a number of cables to a single socket. The dryer should be connected to a single outlet.

Dryer

- Do not place things or lean on the dryer.
- Do not wipe the cover with benzene or thinner. The coating may peel off or discolor.

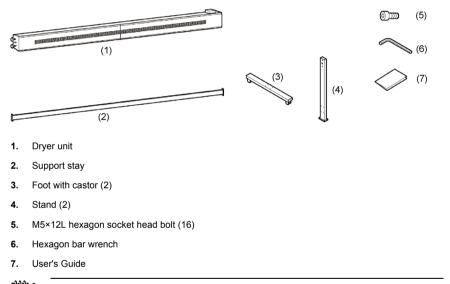
Wipe the surface of the cover lightly with a soft cloth. If the cover is dirty, wipe the surface with a cloth dipped in neutral detergent mixed with water and then squeezed firmly.

How to assemble the dryer 2

Please read the assembly instructions closely in order to assemble the dryer correctly.

Before assembly

The dryer package contains the parts shown below. Make sure that all parts are present before starting to assemble them.



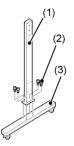


NOTE A power cable in compliance with the regional power specification is contained in the

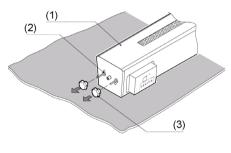
Assembly procedure

1. Put a cardboard or some other protective sheet on the floor in order to protect the surface of the dryer parts.

2. Secure a foot (3) to each stand (1) with the hexagon socket head bolts (2).



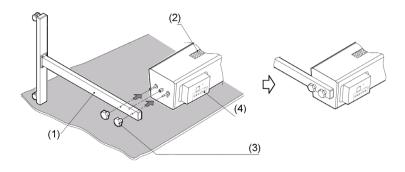
- 3. Place the dryer unit (1) on the protective sheet with its air outlet face up.
- 4. Remove knobs (3) (two at each side) from both ends of the dryer unit (1).





NOTE Do not remove the washers (2) from the dryer (1).

5. Secure the stands (1) to the dryer unit (2) with the knobs (3) (two at each side) as shown below.



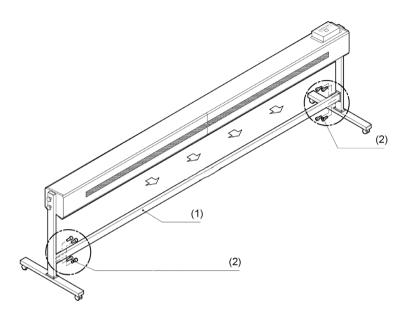


NOTE Attach the stands in such a way that the operation panel (4) on the dryer unit will be face up when the dryer is raised into its standing position.

Attach the stands in such a way that the holes in the stands face inwards; they will be used to attach the support stay.

6. When the stands are attached to the dryer unit, lift the whole dryer into the upright position, standing on its feet.

7. Secure the support stay (1) with four hexagon socket head bolts (2) at each side of the dryer unit. Check that all screws are tightly fastened.

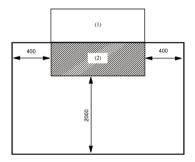


How to install the dryer

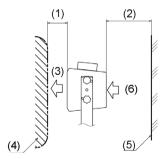
Installation space

3

The following diagram shows the printer (1), the dryer (2), and the free space that should be left around the dryer in millimeters. The height of the dryer is 870 mm.



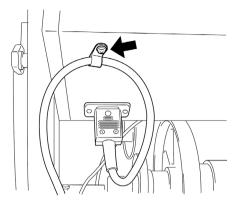
The dryer should be positioned at least 50 mm (1) from the paper emerging from the printer (4), with the air inlet (6) and outlet (3) positioned as shown below. The air inlet (6) should also be at least 300 mm (2) from any obstruction (5). Lock the castors after installing the dryer.



Power connection

1. After installing the dryer, connect the power cable to the dryer's power socket.

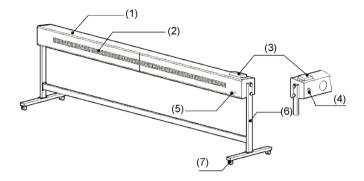
2. Open the power cable clamp, pass the power cable through the clamp, close the clamp, and then clamp the cable. This prevents accidental unplugging.



- 3. Confirm that the dryer's main power switch is off (O), then connect the other end of the power cable to a suitable power outlet (see <u>Specifications</u> for details).
- 4. Turn on the dryer's main power switch.

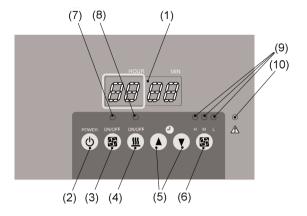
4 Dryer components

Main external components



- 1. Dryer unit
- 2. Warm air outlet
- 3. Operation panel
- 4. Power switch
- 5. AC inlet
- 6. Stand
- 7. Castor

Operation panel components



- 1. Display panel:
 - Indicates the remaining time on the timer.
 - Press Timer buttons (5) up or down to set the timer (from the minimum one hour to maximum 24 hours).
- 2. Power button:
 - Turns the dryer on or off.
 - If the Power button is turned off while the heater is operating, the fan continues to operate for three more minutes before the dryer eventually turns off.
- 3. Fan button: When switched on, air is blown out of the dryer.
- 4. Heater button: When switched on, warm air is blown out of the dryer.
- 5. Timer button:
 - Sets the timer.
 - Operation up to 24 hours can be set (the remaining time is indicated on the display panel).
 - The default value at the first power on is 10 hours.
- 6. Air Flow button:
 - Changes air flow of the fan and heater.
 - The air flow can be changed to High (H), Medium (M) or Low (L).
 - The default value at the first power on is High (H).
- 7. Fan lamp: This is lit while the fan is operating.
- 8. Heater lamp: This is lit while the heater is on.

- 9. Air flow lamp indicates the air flow from the fan at three levels: High (H), Medium (M) and Low (L).
- **10.** Heater Error lamp: This is lit when the temperature of the top cover is too high.



CAUTION When the Heater Error lamp comes on, press the heater button to stop warm air operation, and blow air at the maximum flow level (H) for 10 minutes to cool the inside of the dryer. After the dryer cools down, turn off the dryer using the main power switch, then contact our service center.

Do not touch the dryer soon after turning it off as the dryer will still be hot.

5 How to use the dryer

Basic operating procedure

- 1. Press the Power button (2) to switch on the dryer (the operation panel and air flow lamp come on).
- 2. Press the Heater button (4) to set the operation mode (the Fan lamp (7) and the Heater lamp (8) will come on).
 - If the Fan button (3) has been pressed before the Heater button (4), you will not be able to turn on the heater by pressing the Heater button (4). You must press the Fan button (3) again (so the Fan lamp (7) goes off) and then press the Heater button (4) so that hot air operation starts (both the Fan lamp (7) and the Heater lamp (8) should come on).
 - Warm air operation can be restarted by pressing the Heater button (4) while the fan is turning for three minutes after the heater has been switched off.
- 3. The timer is used to set the operation time of the dryer. It can be set to a time of up to 24 hours.
 - The default setting of the timer is 10 hours.
 - You cannot change the time on the timer during the three minute cooling-off period.



NOTE When the remaining time on the timer reaches 0, warm air from the fan will stop. The fan will continue to operate for an additional three minutes in order to cool the dryer after the warm air stops.

- 4. Press the Air Flow button (6) to adjust the air flow of the fan.
- 5. Press the Heater button (4) to stop warm air operation. The fan will operate for an additional three minutes after warm air stops.
- 6. Turn off the main power switch to terminate operation.



NOTE The fan will continue to operate for an additional three minutes even when the Power button (2) has been pressed without first switching off the heater (using the Heater button (4)).



CAUTION Do not sit on the dryer or lean heavily on it. It is not strong enough to support your weight.

Do not turn off the main power switch until the fan has finished its three-minute cooling-off period after the heater stops. When the main power switch is turned off, the fan stops turning, resulting in an increase in internal temperatures due to the remaining heat of the heater. This may damage the dryer. In addition heated surface may cause burns. If the main power switch is accidentally turned off, or the power cable pulled out, turn on the power again and run the fan with the air flow set to high for at least five minutes to cool down the dryer.

If the power cable is accidentally disconnected, do not touch the dryer, which will still be hot.

The ink does not dry immediately. Take care that freshly-printed paper does not touch anything.

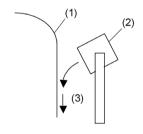
The printed paper may be damaged if the dryer is too close to it. Make sure the dryer is at least 50 mm from the paper.

If the dryer's air inlet becomes clogged with dust, the internal temperature will rise, which may cause a failure. Clean the air inlet at regular intervals.

Efficient use of the dryer

Direction of warm air

Set the body of the dryer pointing slightly downward as shown below. Drying efficiency increases with warm air blowing along the surface of the paper.



- 1. Paper
- 2. Dryer
- 3. Warm air

Airflow setting

Air flow can be set to one of three levels. The dryer uses a constant conduction heater, and accordingly temperature drops as air flow increases, or rises as air flow decreases. To improve the drying efficiency, high air flow (H) is recommended during warm air operation.

When room temperature is low

Always turn on the heater to keep air from the dryer at room temperature +10 to 20 °C. Raising the temperature to a certain level is required to dry the printed paper. Room temperature should be kept at 20 °C or more to increase drying efficiency.

Paper setting with or without the take-up-reel unit

Paper settings with or without the take-up-reel unit are shown below.

With take-up-reel unit:

Determine the location relative to the dryer as shown in the figure below.



Without take-up-reel unit:

Pull out the paper through the legs of the dryer as shown in the figure below.





NOTE Avoid pulling out the paper too much as the printed surface may touch the dryer.

6 Maintenance and cleaning

Maintenance

The dryer should be inspected periodically for defects. If defects are found, they can be repaired by onsite service or, if necessary, at a service center.

Cleaning

If the surface of the dryer becomes extremely dirty, you can wipe it with a soft cloth dipped in water and neutral detergent and squeezed tightly.



CAUTION Turn off the dryer's power switch before cleaning.

Do not use thinner, benzene, or other non-volatile solvents for cleaning the dryer: they may cause the dryer's surface coating to peel or discolor.

7 Specifications

Item	Specification
Dimensions	3310 (W) x 610 (D) x 870 (H) mm
Weight	60 kg or less
Color	Carbonite Black
Maximum paper width	2600 mm
Heater type	Sheathed heater
Warm-up time	10 minutes or less
Paper path	Winding or straight output
Warm air temperature	Ambient temperature + 10°C or more
Fan flow control	Three levels: High, Medium or Low
Timer	Range: 1 to 24 hours (unit: 1 hour)
	(Error: ± 1%/h)
Acquired regulations and standards	EN55022 Class A
	FCC Part 15B Class A
	VCCI Class A
	CSA
	CE
Power consumption	3300 W or less
Input power voltage	180 to 253 VAC
Input power frequency	50/60 Hz ± 1 Hz
Instantaneous power failure	20 msec. or more

Item	Specification
Inrush current	35 A or less
Grounding	D class grounding (The 3rd class grounding)
Operating temperature and humidity range	Temperature: 15 to 30°C
	Humidity: 30 to 70%RH (no condensation)
Storage temperature and humidity range	Temperature: 5 to 35°C
	Humidity: 10 to 80%RH (no condensation)
Dust level	Equivalent to office environments.
Ventilation	Ventilation facilities are recommended for deodorization.
Installation space	Outlet: 50 mm or more
	Inlet: 300 mm or more

8 Legal information

Limited Warranty—HP Designjet High Speed Dryer - 104 inch

HP product Limited Warranty Period

Hardware product

1 year from the date of hardware's purchase by the customer

A. Extent of HP Limited Warranty

- 1. This Hewlett-Packard (HP) Limited Warranty gives you, the end-customer, express limited warranty rights from HP. In addition, you may also have other legal rights under the applicable local law or special written agreement with HP.
- 2. HP warrants to you that the HP products specified above will be free from defects in materials and workmanship during the Limited Warranty Period specified above. The Limited Warranty Period starts on the date of purchase. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair or replacement of your HP Products is required within the Limited Warranty Period.
- For software products, HP's Limited Warranty applies only to a failure to execute programming instructions. HP does not warrant that the operation of any product will be uninterrupted or error free.
- HP's Limited Warranty covers only those defects that arise as a result of normal use of the HP products as defined in the user's guide, and does not apply to any:
 - a. Improper or inadequate maintenance;
 - b. Interfacing or parts not provided or supported by HP; or
 - c. Operation outside the product's specifications.

Routine maintenance operations in the HP Designjet High Speed Dryer - 104 inch, such as cleaning and preventive maintenance services (including parts contained in any preventive maintenance kit and HP service engineer visits), are not covered by HP's Limited Warranty.

- 5. Your exclusive remedies for defective HP products are the following:
 - a. During the Limited Warranty Period, HP will replace any defective HP consumable product that is covered by this Limited Warranty, and deliver another product to you to replace the defective one.
 - b. During the Limited Warranty Period, HP, at its sole discretion, shall either repair on site or replace any defective hardware product or component part. If HP elects to replace any component part, HP will provide to you (i) a replacement part, in return for the defective one, and (ii) remote part installation assistance, if needed.
 - c. In the unlikely event that HP is unable to repair or replace, as applicable, a defective product that is covered by this Limited Warranty, HP shall, within a reasonable time after being notified of the defect, refund the purchase price for the product.
- 6. HP shall have no obligation to replace or refund until you return the defective hardware product or component part to HP. All components, parts, or hardware products removed under this Limited Warranty become the property of HP. Notwithstanding the above mentioned, HP may waive the requirement for you to return the defective part.
- 7. Unless otherwise stated, and to the extent permitted by local law, HP products may be manufactured using new materials or new and used materials equivalent to new in performance and reliability. HP may repair or replace products (i) with equivalent products to the products being repaired or replaced but which may have been subject to prior use; or (ii) with an equivalent product to an original product that has been discontinued.
- 8. THIS LIMITED WARRANTY IS APPLICABLE IN ALL COUNTRIES AND MAY BE ENFORCED IN ANY COUNTRY WHERE HP OR ITS AUTHORIZED SERVICE PROVIDERS OFFER WARRANTY SERVICE AND HP HAS MARKETED THIS PRODUCT, SUBJECT TO THE TERMS AND CONDITIONS SET FORTH IN THIS LIMITED WARRANTY. HOWEVER, WARRANTY SERVICE AVAILABILITY AND RESPONSE TIME MAY VARY FROM COUNTRY TO COUNTRY. HP WILL NOT ALTER FORM, FIT, OR FUNCTION OF THE PRODUCT TO MAKE IT OPERATE IN A COUNTRY FOR WHICH IT WAS NEVER INTENDED TO FUNCTION FOR LEGAL OR REGULATORY REASONS.
- 9. Contracts for additional services may be available for any authorized HP service facility where the listed HP product is distributed by HP or an authorized importer.
- 10. TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY NEITHER HP NOR ITS THIRD PARTY SUPPLIERS MAKE ANY OTHER WARRANTY OR CONDITION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE HP PRODUCTS, AND SPECIFICALLY DISCLAIM THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE.

B. Limitations of liability

TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT FOR THE OBLIGATIONS SPECIFICALLY SET FORTH IN THIS LIMITED WARRANTY, IN NO EVENT SHALL HP OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING ANY LOSS OF PROFITS OR SAVINGS), WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY AND WHETHER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

C. Local law

- This Limited Warranty gives you specific legal rights. You may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world. You are advised to consult applicable state, province, or national laws for full determination of your rights.
- 2. To the extent that this Warranty Statement is inconsistent with local law, this Warranty Statement shall be deemed modified to be consistent with such local law. THE WARRANTY TERMS CONTAINED IN THIS LIMITED WARRANTY, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Revision: July 21st, 2006

Regulatory notices

Regulatory Model Number

For regulatory identification purposes, HP has assigned a Regulatory Model Number (RMN). The Regulatory Model Number for your product is as follows:

RMN	Product family
BCLAA-0607	HP Designjet High Speed Dryer - 104 inch

The Regulatory Model Number (RMN) should not be confused with the marketing name (HP Designjet High Speed Dryer - 104 inch) or product number.

Regulatory statements

Europe



WARNING! This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

USA

Electro-Magnetic Compatibility (EMC)

FCC statements (U.S.A.)

The U.S. Federal Communications Commission (in 47 cfr15.105) has specified that the following notices be brought to the attention of users of this product.

Shielded cables

Use of shielded data cables is required to comply with the Class A limits of Part 15 of the FCC Rules.



CAUTION Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by the Hewlett-Packard Company may cause harmful interference and void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.

Canada

Normes de sécurité (Canada)

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le réglement sur le brouillage radioélectrique édicté par le Ministére des Communications du Canada.

DOC statement (Canada)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Korea

Korean EMI statement

사용자 안내문 :A 급 기기

이 기기는 업무용으로 전자파적합등록을 받은 기기이오니, 판매자 또는 사용자는 이 점을 주의 하시기 바라며, 만약 잘못 구입 하셨을 때에는 구입한 곳에서 비업무용으로 교환 하시기 바랍니다.

Taiwan

Taiwanese EMI statement

警告使用者:這是甲類的資訊產品,在居住的環境中使用時,可能會造成射頻干擾,在這種情況下,使用者會被要求採取某些適當的對策.

China

Chinese EMI statement

此为A级产品,在生活环境中,该 产品可能会造成无线电干扰。在这种情 况下,可能需要用户对其干扰采取切实 可行的措施。

Germany

Sound

Geräuschemission (Germany) LpA < 70 dB, am Arbeitsplatz, im Normalbetrieb, nach DIN45635 T. 19.

Address

Hewlett-Packard Company Manager of Corporate Product Regulations

3000 Hanover Street

Palo Alto, CA 94304

650/857-1501

Declaration of Conformity (DoC No: BCLAA-0607-01)

according to ISO/IEC 17050-1 and EN 17050-1

Supplier's name:	Hewlett-Packard Company	
Supplier's address:	Avenida Graells, 501	
	08174 Sant Cugat del Vallès	
	Barcelona, Spain	

declares that the product

Regulatory Model Number 22:	BCLAA-0607
Product family:	HP Designjet High Speed Dryer - 104 inch
Product options:	All

conforms to the following product specifications

Safety:	IEC 60950-1:2001 / EN 60950-1:2001
EMC:	CISPR 22:1997+A1:2000+A2:2002
	EN 55022:04 +A1:1995 +A2:1997 Class A(1)(8)
	EN 55024:1998+A1:2001+A2:2003
	EN 61000-3-2:2000 / IEC 61000-3-3:2000
	EN 61000-3-3:1995+A1:2001 / IEC 61000-3-3 / A1:2001
	FCC Title 47 CFR, Part 15 Class A (2)(8)

Additional information

The product herewith complies with the requirements of the Low-Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE marking accordingly.

- 1. The product was tested in a typical configuration with HP Personal Computer Systems and peripherals.
- 2. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference.
 - This device must accept any interference received, including interference that may cause
 undesired operation.
- The product is assigned a Regulatory Model Number which stays with the regulatory aspect of the design. The Regulatory Model Number is the main product identifier in the regulatory documentation and test reports; this number should not be confused with the marketing name or the product numbers.



Josep-Maria Pujol Hardware Quality Manager Sant Cugat del Vallès (Barcelona) June 12th, 2006

Local contacts for regulatory topics only

Contact in Europe: Hewlett-Packard GmbH, HQ-TRE, Herrenberger Strasse 140, 71034 Böblingen, Germany.

Contact in the USA: Hewlett-Packard Company, HPCC, 20555 S.H. 249 Houston, Texas 77070, USA.

Contact in Australia: Hewlett-Packard Australia Ltd, Product Regulations Manager, 31–41 Joseph Street, Blackburn, Victoria 3130, Australia.