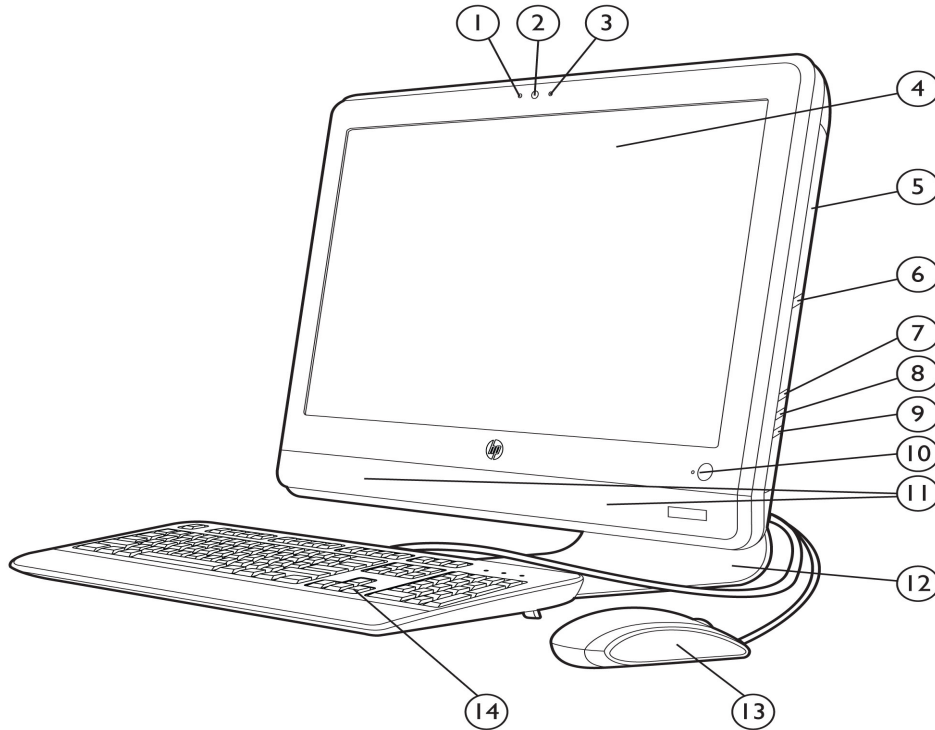
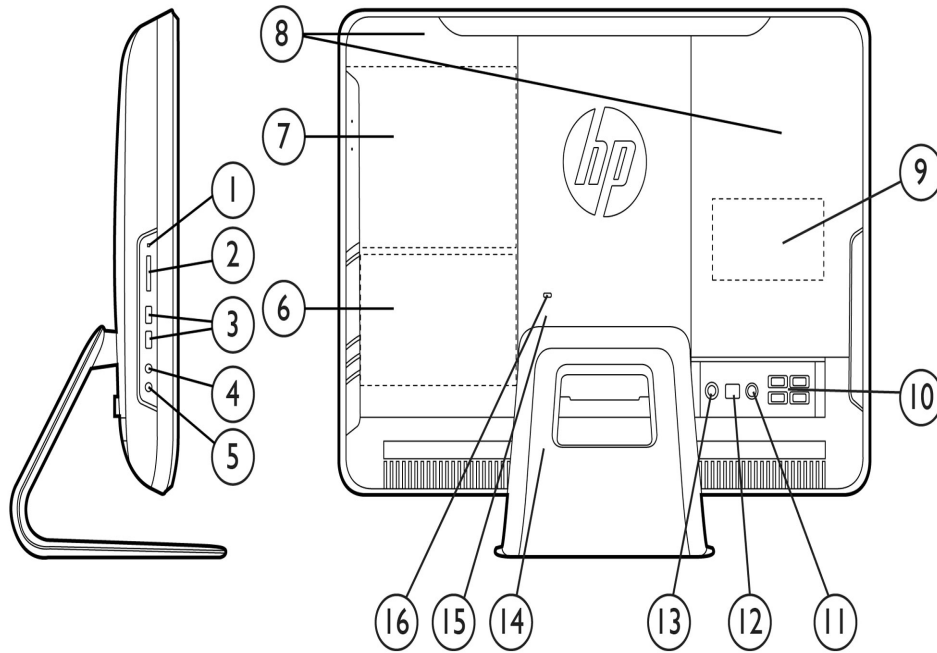


## Overview



- |  |   |
|--|---|
| 1. Webcam LED indicator (optional)                         | 8. Brightness decrease button                   |
| 2. Webcam (optional)                                       | 9. Drive activity LED                           |
| 3. Integrated microphone (optional along w/ webcam)        | 10. Power button and LED                        |
| 4. 20-inch diagonal 16:9 widescreen 1600 x 900 LCD display | 11. High-performance stereo speakers            |
| 5. Tray-load optical drive                                 | 12. Adjustable tilt stand                       |
| 6. Optical drive eject button                              | 13. HP optical mouse                            |
| 7. Brightness increase button                              | 14. HP low-profile keyboard with numeric keypad |

### Overview



1. Media Card Reader LED
2. HP 6-in-1 Media Card Reader
3. (2) USB 2.0 ports
4. Microphone jack
5. Headphone jack
6. Hard drive access
7. Optical drive access
8. Removable access panels  
**NOTE:** All three back panels may be removed.
9. Memory access
10. (4) USB 2.0 ports
11. Stereo audio line out
12. RJ-45 Gigabit Ethernet port
13. Power connector with LED indicator
14. Adjustable tilt stand
15. Access cover panel  
**NOTE:** Access cover panel may be removed.
16. Lock slot

## Overview

### At A Glance

- Genuine Windows 7 versions, RedFlag Linux, or FreeDOS
- 20-inch diagonal widescreen HD anti-glare display
- Integrated All-in-One form factor
- Adjustable tilt stand
- Intel® Core™ 2 Duo, Pentium, or Celeron processor
- Intel G41 Express chipset
- Integrated Intel Graphics Media Accelerator X4500
- Integrated Gigabit Network Connection (10/100/1000 NIC)
- Integrated webcam\*; stereo speakers
- Optional wireless connectivity:
  - 802.11 b/g/n wireless LAN module
- Up to 4GB of DDR3 SDRAM supported, dual channel memory support
- Up to 1 TB hard drive
- Tray-load SuperMulti DVD Burner
- 6-in-1 Media Card Reader
- USB Keyboard and Mouse
- ENERGY STAR® (for Windows OS only)
- EPEAT Silver certification\*\*
- BFR/CFR/PVC-free (except for power supply and cord)

\* The webcam is deselectable at customer request.

\*\* Where HP registers commercial desktop products. See <http://www.epeat.net> for registration status in your country.



Standard Features (availability varies by configuration and by country)

### Processors

#### Intel Celeron Dual-Core Processors:

Intel Celeron E3400 Processor (2.6 GHz, 1MB L2 cache, 800 MHz FSB)

#### Intel Pentium Dual-Core Processors:

Intel Pentium E5800 Processor (3.20 GHz, 2MB L2 cache, 800-MHz FSB)

Intel Pentium E6700 Processor (3.20 GHz, 2MB L2 cache, 1066-MHz FSB)

#### Intel Core 2 Duo Processors:

Intel Core 2 Duo E7500 Processor (2.93 GHz, 3 MB L2 cache, 1066-MHz FSB)

Intel Core 2 Duo E7600 Processor (3.06 GHz, 3 MB L2 cache, 1066-MHz FSB)

Intel Core 2 Duo E8400 Processor (3.0 GHz, 6 MB L2 cache, 1333-MHz FSB)

\* Intel's numbering is not a measurement of higher performance. Processor numbers differentiate features within each processor family, not across different processor families.

### Operating System

#### Preinstalled

Genuine Windows 7 Professional Edition 64\*

Genuine Windows 7 Professional Edition 32\*

Genuine Windows 7 Home Basic Edition 64\*

Windows 7 Starter Edition 32

RedFlag Linux†

FreeDOS

**NOTE:** Windows XP Mode, included in Windows 7 Professional Edition 32, works with virtualization software such as Windows Virtual PC to run older Windows XP business software on the Windows 7 desktop.

\* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality.

See: <http://www.microsoft.com/windows/windows-7/> for details.

† The following features are not supported by RedFlag Linux and FreeDOS: display's brightness control buttons on chassis.

### Chipset

Intel G41 Express chipset

### Graphics

Integrated Intel Graphics Media Accelerator X4500

Shared system memory

DirectX 10 capable

### Display

20-inch diagonal widescreen HD CCFL anti-glare display

**Resolution** 1600 x 900 resolution (16:9)

**Contrast ratio** 1000:1 typical

**Image brightness** 250 nits typical

**Refresh rate** 5ms

**Viewing angle (typical)** Up to 160° horizontal/160° vertical (10:1 minimum contract ratio)



Standard Features (availability varies by configuration and by country)

**Adjustable Tilt Stand**      Tilt adjustments

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**Memory**                      **Standard**                      PC3-10600 DDR3 1333-MHz non-ECC SDRAM  
Two 200-pin SODIMM slots supporting dual channel memory  
1 GB (1 GB x 1) – for Linux and FreeDOS only  
2 GB (2 GB x 1)  
3 GB (2GB + 1GB)  
4 GB (2 GB x 2)

**Dual-channel**                      Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

**NOTE:** Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

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**Communications**                      **Realtek RTL8111E Gigabit Ethernet** Integrated 10/100/1000 NIC\*  
**HP 802.11 PCIe Minicard Wireless Module** (optional)                      Support for 802.11 b, g, and n  
Up to 300 mbps data rate  
Built-in antennas (1 transmit, 1 receive)

\* The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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**Keyboard**                      **HP USB Keyboard**                      104 keys plus special keys for Mute, Volume Up, Volume Down. Separate numeric keypad.  
Cable length 51 in (130 cm)

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**Pointing Device**                      **HP USB Optical Scroll Mouse**                      Two buttons with scroll wheel acting as third button.  
Cable length 69 in (175 cm)

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**Storage**                      **Hard Drive**                      3.5-inch, 7200 rpm, 3.0 Gb/s, Smart IV SATA Hard Drive:  
250 GB  
500 GB  
750 GB  
1 TB

**Slim Optical Drive**                      Tray-load SuperMulti DVD Burner  
Read: 8x max DVD-ROM, 24x max CD-ROM  
Write: 8x max DVD±R, 6x max DVD±R DL, 8x max DVD+RW,  
6x max DVD-RW, 5x max DVD-RAM, 24x max CD-R,  
24x max CD-RW

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**I/O Slots**                      **Half Height Mini PCIe x1**      One (Wireless LAN module)

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### Standard Features (availability varies by configuration and by country)

<b>Interfaces</b>	<b>6-in-1 Media Card Reader</b>	Supports Secure Digital (SD, SDHC), MultiMedia Card (MMC), xD-Picture Card, Memory Stick, Memory Stick Pro
	<b>USB 2.0</b>	Six (2 left side, 4 rear)
	<b>Microphone jack</b>	One
	<b>Stereo audio headphone jack</b>	One
	<b>Stereo audio line out</b>	One
	<b>Power connector</b>	One
	<b>RJ-45/Ethernet</b>	One

<b>Audio/Visual</b>	High Definition Audio support Integrated high-performance stereo speakers Integrated microphone Volume control and mute buttons (on keyboard) Stereo headphone jack Stereo line out Integrated 0.3Mp VGA webcam
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<b>Software</b>	<b>Preinstalled software (varies by country)</b>	HP Power Assistant (pre-loaded) HP Support Assistant HP Vision Diagnostics Cyberlink YouCam BE Cyberlink PowerDVD Cyberlink Power2Go PDF Complete Norton Internet Security*
		* 60 day trial period for Norton Internet Security. Internet access required to receive updates. First update included. Subscription required for updates thereafter.

<b>HP Power Assistant</b>	PC client based power management solution providing a user interface to manage the operating system power plans and power states while estimating the energy cost impact.
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<b>SMBIOS</b>	System Management BIOS, previously known as DMI BIOS, is used to store system management information.
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<b>Security</b>	Lock slot Optional HP ProtectTools Security Software Suite Optional HP Credential Manager
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<b>Power Supply</b>	External 150-watt energy efficient power supply, 87% efficiency, active PFC
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## Standard Features (availability varies by configuration and by country)

### Service and Support

On-site Warranty<sup>Note 1</sup>: One-year (1-1-1) limited warranty delivers one year of on-site, next business-day<sup>Note 2</sup> service for parts and labor and includes free telephone support<sup>Note 3</sup> 24 x 7. Global coverage<sup>Note 2</sup> ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty and service offering. One-year onsite and labor are not available in all countries. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/lookuptool>. Additional HP Care Pack Services information by product is available at: <http://www.hp.com/hps/carepack>.

**NOTE 1:** Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

**NOTE 2:** On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

**NOTE 3:** Technical telephone support applies only to HP-configured Compaq and third-party HP-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.



Options (availability varies by configuration and by country)

<b>Audio</b>	HP Business Digital Headset	QK550AA
	Thin USB Powered Speakers	KK912AA
<hr/>		
<b>I/O Devices</b>	HP 2.4GHz Wireless Keyboard & Mouse	NB896AA
	HP SlimLine 2.4GHz Wireless Keyboard & Mouse	BL549AA
	HP USB PS2 Washable Keyboard/Mouse US	BU207AA
	HP USB O4 Standard Keyboard	DT528A
	HP USB SmartCard CCID Keyboard	BV813AA
	HP USB Mini Keyboard	AS601AA
	HP USB PS2 Washable Keyboard	VF097AA
	HP USB Keyboard with USB Ports (US only)	BT330AA
	HP USB 2-Button Optical Scroll Mouse	DC172B
	HP USB 2-Button Laser Mouse	GW405AA
	HP USB PS2 Washable Scroll Mouse	BM866AA
	HP USB 2-Button Optical Scroll Mouse Bulk 100	EA177A6
<hr/>		
<b>Miscellaneous</b>	HP Virtual Support Rooms (1 support representative seat) License	WF836A#B1K
	HP Virtual Rooms (up to 5 people in one meeting) 1 Yearly License	WF722A#B1K
	HP Virtual Rooms (up to 15 people in one meeting) 1 Year License	WF723A#B1K
	HP Virtual Rooms (up to 25 people in one meeting) 1 Year License	WF724A#B1K
	HPVR License Pool, 5-25 licenses	QA217AAE
	HPVR License Pool, 26-50 licenses	QA218AAE
	HPVR License Pool, 51-100 licenses	QA219AAE
	HPVR License Pool, 101-150 licenses	QA220AAE
	HPVR License Pool, 151-200 licenses	QA221AAE
	HPVR License Pool, 201-500 licenses	QA222AAE
	HPVR License Pool, 501-999 licenses	QA223AAE
	HPVR License Pool, 1000-2499 licenses	QA224AAE
	HPVR License Pool, 2500-4999 licenses	QA225AAE
	HPVR License Pool, 5000+ licenses	QA226AAE
	7-outlet Surge Protector	AG290AA
	Local Area Network (LAN) cable, Ethernet cable	AH122AA
	PDF Complete Corporate Edition	WQ534A
HP USB HD 720P Business Webcam	QP896AA	
HP Business Mouse Pad	AT485AA	





### Technical Specifications

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	16.0 in x 20 in x 8.6 in (including stand) 407.0 mm x 508 mm x 220.1 mm (including stand)
	<b>Weight</b>	16.8 lb (including stand) 7.6 kg (including stand)
	<b>Packaging Dimensions (HxWxD)</b>	19.4 in x 22.9 in x 10.8 in 492mm x 582mm x 274mm
	<b>Shipping Weight</b>	Approx. 25.4 lb (11.5 kg)
	<b>Stand-Alone Power Requirements</b>	<b>Electrical Ratings</b> 100-240 V, 50/60 Hz, 2.0 A <b>Idle Operating Power</b> Integrated graphics: 30W <b>Max Operating Power</b> <150W
	<b>Temperature</b>	<b>Operating</b> 41° to 95° F (5° to 35° C) <b>Non-operating</b> -22° to 149° F (-30° to 65° C)
	<b>Relative Humidity</b>	<b>Operating</b> 15% to 80% @ 26° C
	<b>Altitude (unpressurized)</b>	<b>Operating</b> 0 to 6,562 ft (0 to 2000 m) <b>Non-operating</b> 0 to 15,000 ft (0 to 4,572 m)
	<b>Industry Standard Certifications</b>	<b>UL</b> Yes <b>CSA</b> Yes <b>FCC Compliance</b> Yes <b>ENERGY STAR®</b> Yes (for Windows OS only) <b>EPEAT</b> Silver* (for Windows OS only)
	<b>Environmental</b>	<b>BFR/CFR/PVC-free</b> Yes, except for external power supply and power cord <b>Arsenic-free display</b> Yes <b>Leakage current meets NFPA99</b> Yes <b>TAA Compliant</b> Yes

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

\* Where HP registers commercial desktop products. See <http://www.epeat.net> for registration status in your country.



### Technical Specifications

**Eco-Label Certifications & declarations** This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US ENERGY STAR ®
- IT ECO declaration
- EPEAT Silver where HP registers commercial desktop products. See <http://www.epeat.net> for registration status in your country.

Energy Consumption	115 VAC	230 VAC	100 VAC
Normal Operation	37.65 W	37.18 W	37.96 W
Sleep (Energy Star low power mode)	1.08 W	1.26 W	1.07 W
Off	0.79 W	0.83 W	0.77 W

Energy efficiency information represents a typically configured product base model meeting ENERGY STAR® specifications if offered within the model family. If optional components or modules are added, like extra hard disks or graphic cards etc, these can change the energy efficiency data listed above.

Heat Dissipation*	115 VAC	230 VAC	100 VAC
Normal Operation	129 BTU/hr	127 BTU/hr	130 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr

\* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

Typically Configured	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	3.9	26
Fixed Disk (random writes)	4.1	30

**Batteries** This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater than 5ppm by weight
- Cadmium greater than 10ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

### Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the Silver where HP registers commercial desktop products. See <http://www.epeat.net> for registration status in your country.
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and



### Technical Specifications

ISO1043.

- This product contains 0% post consumer recycled plastic (by wt.)
- This product is 96.5% recyclable when properly disposed of at end of life.

### Packaging Materials

- External:
  - Corrugated 500 g
- Internal:
  - Polyethylene low density 14 g
  - EPE - Expanded Polyethylene 91 g
- The corrugated packaging material contains at least 80% recycled content.
- The Polyethylene low density Foam packaging material contains at least 0% recycled content.
- The Expanded Polyethylene packaging material contains at least 0% recycled content.

### RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

### Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at:

[http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\\_specifications.html](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

### Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.



### Technical Specifications

- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

### End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:  
Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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