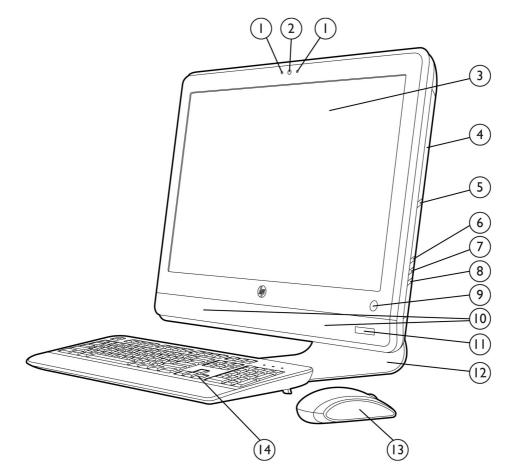
Overview

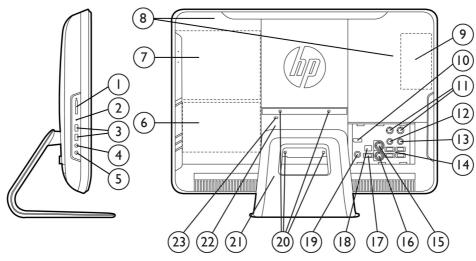


- 1. Dual microphone array
- 2. Webcam (optional)
- 3. 21.5-inch diagonal 16:9 widescreen LED-backlit full HD LCD display
- 4. Tray-load optical drive (optional)
- 5. Optical drive eject button
- 6. Brightness increase button
- 7. Brightness decrease button

- 8. Drive activity LED
- 9. Power button and LED
- 10. High-performance stereo speakers
- 11. IR Receiver and LED (select models only)
- 12. Adjustable tilt and swivel stand
- 13. HP low-profile keyboard* with numeric keypad
- 14. HP optical mouse*
- * Wired or optional wireless

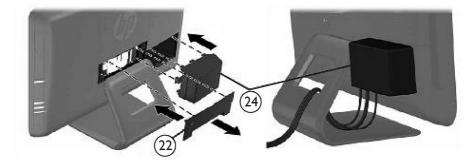


Overview



- 1. HP 6-in-1 Media Card Reader
- 2. IEEE 1394 port
- 3. (2) USB 2.0 ports
- 4. Microphone/line in jack
- 5. Headphone jack
- 6. Hard drive access
- 7. Optical drive access
- 8. Removable access panels
- 9. Memory access
- 10. DisplayPort
- 11. TV tuner coax jacks (optional)
- 12. IR Emitter (Blaster) output (optional)

- 13. Stereo audio line out
- 14. (4) USB 2.0 ports
- 15. PS/2 mouse port
- 16. PS/2 keyboard port
- 17. USB 2.0 port (used for optional wireless keyboard/mouse transmitter/receiver)
- 18. RJ-45 Gigabit Ethernet port
- 19. Power connector with LED indicator
- 20. VESA-compliant mounting holes (4)
- 21. Adjustable tilt and swivel stand
- 22. Access cover panel
- 23. Lock slot
- 24. Lockable port cover



Overview

At A Glance

- Genuine Windows 7 Professional Edition, SUSE Linux Enterprise Desktop 11, or FreeDOS
- 21.5-inch diagonal widescreen Full HD WLED anti-glare display (1080p)
- Integrated All-in-One form factor
- Adjustable tilt and swivel stand
- Integrated VESA-compliant mounting hole pattern of 100mm x 100mm for attaching the All-in-One system directly to a wall mount or articulating arm
- Intel[®] Core[™] 2 Duo, Pentium, or Celeron processor
- Intel Q43 Express chipset
- Integrated Intel Graphics Media Accelerator 4500 HD, or optional NVIDIA GeForce GT230 discrete graphics
- Integrated Gigabit Network Connection (10/100/1000 NIC)
- Integrated HD webcam* with dual microphone array; premium stereo speakers
- Optional wireless connectivity:
 - O 802.11 b/g/n wireless LAN module
 - O Bluetooth® 2.1
- Optional TV Tuner
- Up to 8 GB of DDR3 SDRAM supported, dual channel memory support
- Up to 1 TB hard drive, or 80 GB Solid State Drive
- Tray-load SuperMulti DVD Burner
- 6-in-1 Media Card Reader
- HP SkyRoom** full version for professional quality visual collaboration built on HP Video and Image processing engines for hi-fi audio, hi-def video, and hi-performance 3D application sharing
- HP MediaSmart software for photos, music, video, DVD, and webcam
- Microsoft Office Communicator certification***
- Face Recognition**** for HP ProtectTools for auto-logon
- Choice of wired or wireless keyboard and mouse
- ENERGY STAR®
- BFR/CFR/PVC-free (except for power supply and cord)

* The webcam is deselectable at customer request.

** HP Skyroom requires the webcam, a Microsoft Windows operating system, and a minimum of 2 GB memory.

*** Submitted to Microsoft and pending approval

**** Face Recognition for HP ProtectTools requires the webcam and a Microsoft Windows operating system.



Processor and Speed*	Intel Celeron Dual-Core Processors:		
One of the following	Intel Celeron E3300 Processor (2.5-GHz, 2 MB L2 cache, 800-MHz FSB)		
	Intel Pentium Dual-Core Processors:		
	Intel Pentium E5400 Processor (2.70-GHz, 2MB L2 cache, 800-MHz FSB)		
	Intel Pentium E5500 Processor (2.80-GHz, 2MB L2 cache, 800-MHz FSB)		
	Intel Pentium E6600 Processor (3.06-GHz, 2MB L2 cache, 1066-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 Core 2 Duo E8500 Processor (3.16-GHz, 6 MB L2 cache, 1333-MHz FSB)		
	Intel Core 2 Duo E8600 Processor (3.33-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.		
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Operating System	Preinstalled	Genuine Windows 7 Professional Edition 32* Genuine Windows 7 Professional Edition 64* SUSE Linux Enterprise Desktop 11 † FreeDOS	
	Supported	Genuine Windows Vista Business 32** Genuine Windows Vista Business 64**	
		Genuine Windows Vista Business 32** Genuine Windows 7 Enterprise 32*	
		Genuine Windows 7 Enterprise 64*	
	Certified	SUSE Linux Enterprise Desktop 11 †	

NOTE: Windows XP Mode, available as a separate download for Windows 7 Professional, 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.

** Certain Windows Vista product features require advanced or additional hardware. See: http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and: http://www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: http://www.windowsvista.com/upgradeadvisor.

† The following features are not supported by SUSE Linux Enterprise Desktop 11:

- Integrated 1.2 TPM Embedded Security Chip
- HP USB Smartcard Keyboard
- Array microphone
- Optional Infrared Remote Control for Media Center (with TV Tuner)



Chipset	Intel Q43 Express chipset					
Graphics	Integrated Intel Graphics M Shared system memory DirectX 10 capable or	DirectX 10 capable				
	1 GB GDDR3 800 MHz dec DirectX 10.1 capable	T230 (internal MXM 3.0 connector) licated video memory				
	or Discrete ATI Radeon HD 55 1 GB GDDR3 800 MHz deo DirectX 11 capable	570 card (internal MXM 3.0 connector) licated video memory				
Display	21.5-inch diagonal widesc tilt and swivel adjustment	21.5-inch diagonal widescreen Full HD WLED anti-glare display, tilt and swivel adjustments				
	Resolution	1920 x 1080 resolution (16:9)				
	Contrast ratio	1000:1 typical				
	Image brightness	250 nits typical				
	Viewing angle (typical)	Up to 160º horizontal/160º vertical (10:1 minimum contract ratio)				
Adjustable Tilt an Stand		legrees forward to +30 degrees backward. If stand allows it to swivel on the desk.				
Memory	Standard	PC3-10600 DDR3 non-ECC SDRAM (runs at 1333 MHz)				
-		Two 204-pin SODIMM slots supporting dual channel memory				
		2 GB (1 GB x 2)				
		2 GB (2 GB x 1) 4 GB (2 GB x 2)				
		4 GB (2 GB X 2) 4 GB (4 GB x 1)				
		8 GB (4 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.				



Communications	Intel Gigabit Network Connection			Integrated 10/100/1000 NIC*	
	802.11 PCIe Mini Wirel	l ess Module (d	optional)	AMT 3.0 support Support for 802.11 b, g, and n	
				Up to 300 mbps data rate Built in dual antonnas (2 transmit, 2 rasoivo)	
	Bluetooth Wireless Te	chnology (op	tional)	Built-in dual antennas (2 transmit, 2 receive) Bluetooth Specification v2.1 compliant Works with a wide range of Bluetooth devices	
	Gigabit Ethernet, and d	* 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 transmissic connection to a Gigabit Ethernet server and network infrastructure is required.			
Manageability	Intel Standard Manageability		ASF 2.0 DASH 1.0		
Keyboard	Standard HP USB or PS/2 Keyboard Optional HP Wireless Keyboard		Separate num	s special keys for Mute, Volume Up, Volume Down. neric keypad. 51 in (130 cm)	
			104 keys plus special keys for Mute, Volume Up, Volume Down Separate numeric keypad. Operates at ~ 2.4 GHz and supports a working distance of up to 32 (10 m).		
Pointing Device	Standard HP USB or PS/2 Optical Scroll Mouse		Two buttons with scroll wheel acting as third button. Cable length 69 in (175 cm)		
	Optional HP Wireless (Mouse	Optical Scroll		with scroll wheel acting as third button. 2.4 GHz and supports a working distance of up to 32 ft	
Storage	Hard Drive	3.5-inch, 250 GB 500 GB 1 TB	, 7200 rpm, 3.C) Gb/s, Smart IV SATA Hard Drive:	
	or	2.5-inch 3.0 Gb/s, Sm		rt IV SATA Solid State Drive:	
	Solid State Drive	80 GB 120 GB 160 GB	120 GB		
	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		M, 24x max CD-ROM 6x max DVD±R DL, 8x max DVD+RW,	
		Option fo	or no optical dr	ive	



I/O Slots	Full Height Mini PCIe x1 Half Height Mini PCIe x1	One (Wireless LAN module) One (TV Tuner)			
Interfaces	6-in-1 Media Card Reader	Supports Secure Digital (SD, SDHC), MultiMediaCard, Picture Card, Memory Stick, Memory Stick Pro			
	DisplayPort 1.1	One (compatible with DP to VGA, DP to DVI, and DP to HDMI adapters) Audio over DisplayPort supported with discrete ATI Radeon HD 5570 MXM card and NVidia GeForce GT230 MXM card.			
	IEEE 1394 port	One			
	USB 2.0	Seven (2 left side, 5 rear)			
	Microphone jack	One			
	Stereo audio headphone jack	One			
	Stereo audio line out	One			
	Power connector	One			
	RJ-45/Ethernet	One			
	PS/2	Тwo			
	IR Emitter (Blaster) out	One (with TV tuner option only)			
	TV Coax connector	One (with TV tuner option only); Two in Japan (with TV tuner option only)			
	B-CAS card reader	One (Japan only)			
Audio/Visual	High Definition Audio suppo Integrated high-performan Integrated dual-microphon Volume control and mute b Stereo headphone jack Stereo line out	ice stereo speakers ie array			
	Integrated HD webcam				
	Up to 30 frames/sec				
	Up to 1280 x 720 resolution				
	Hybrid PAL/DVB-T, Over tl Hybrid PAL/DMB-T, Over t	-			
	Infrared Remote Control for Media Center (with TV Tuner)				
	NOTE: Windows 7 Media Ce	enter can be set up for watching TV using the optional TV Tuner.			



Software	Preinstalled software (varies by country)HP Power Assistant HP Credential Manager with Facial Recognition auto-logon HP Client Automation Software Agent (preloaded) HP Support Assistant HP Vision Diagnostics HP SkyRoom HP MediaSmart applications Photo, Music, Video, DVD, Webcam Corel WinDVD Roxio Creator PDF Complete McAfee Total Protection* Microsoft Office 2010 preloaded (purchase of a Product Key required to activate a full Office 2010 suite)*** 60 day trial period for McAfee Total Protection for Small Business software. Internet access required to receive updates. First update included. Subscription required for updates thereafter.** Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and http://www.office.com.		
HP Power Assistant	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.		
SMBIOS	System Management BIOS, previously known as DMI BIOS, is used to store system management information.		
Security	Lock slot Lockable port cover Cover Removal Sensor Integrated 1.2 TPM Embedded Security Chip (Vista Bit-Locker ready) Retaskable control buttons and audio ports Optional HP ProtectTools 5.0 Security Software Suite Optional HP Privacy Filter USB port disable at factory HP Keyed Cable Lock Kit		
Power Supply	Integrated graphics: external 150-watt power supply, 87% efficiency, active PFC Discrete graphics: external 180-watt power supply, 87% efficiency, active PFC		



Service and Support

On-site Warranty^{Note 1}: One-year (3-3-3) limited warranty delivers one year of on-site, next businessday^{Note 2} service for parts and labor and includes free telephone support^{Note 3} 24 x 7. Global coverage^{Note 2} 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.



After Market Options (availability may vary by country)

Memory	HP 2GB DDR3-1333 (PC3-10600) SODIMM	VH640AA	
	HP 4GB DDR3-1333 (PC3-10600) SODIMM	VH641AA	
I/O Devices	HP USB Smartcard Keyboard	ED707AA	
	HP USB PS2 Washable Keyboard	VF097AA	
	HP USB Mini Keyboard	AS601AA	
	HP USB 2-Button Laser Scroll Mouse	GW405AA	
	HP Slim Wireless Keyboard and Mouse	BL549AA#ABA	
Security	Security Lock	PC766A	
	HP ProtectTools 5.0 Security Software Suite	VR893AA	
	HP Keyed Cable Lock Kit	BV411AA	
Miscellaneous	Belkin Promo 7-Outlet Surge Protector	AG290AA#ABA	
	Belkin Network Cable	AH122AA	
	Belkin Firewire (1394) Cable	AH123AA	
	Belkin Starter Kit: Surge Protector, Patch Cable, Printer Cable	RT174AA	
	Belkin USB to Serial Adapter	EM449AA	
	HP DisplayPort To VGA Adapter	AS615AA	
	HP DisplayPort To DVI-D Adapter	FH973AA	
	HP DisplayPort To HDMI Adapter	BP937AA	



Technical Specifications

System Unit	Dimensions (HxWxD)	16.9 in x 21.5 in x 8.7 in (429 mm x 546 mm x 220 mm) with stand 14.9 in x 21.5 in x 2.6 in (378 mm x 546 mm x 66 mm) without stand				
	Weight	14.9 lb (8.25 kg) with stand 15.3 lb (6.94 kg) without stand				
	Packaging Dimensions (HxWxD)	21.9 in x 26.4 in x 9.8 in 566 mm x 670 mm x 249 mm Approx. 37.3 lb (16.9 kg)				
	Shipping Weight					
	Stand-Alone Power	Electrical Ratings	100-240 V, 50/60 Hz, 2.0 A			
	Requirements	Idle Operating Power	Integrated graphics: 58 W Discrete graphics: 66 W			
		Average Operating Power	Integrated graphics: TBD W Discrete graphics: TBD W			
		Max Operating Power	< 180 W			
	Temperature	Operating	41° to 95° F (5° to 35° C)			
		Non-operating	-22° to 149° F (-30° to 65° C)			
	Relative Humidity	Operating	15% to 80% @ 26º C			
	Altitude	Operating	0 to 6,562 ft (0 to 2000 m)			
	(unpressurized)	Non-operating	0 to 15,000 ft (0 to 4,572 m)			
	Industry Standard	UL	Yes			
	Certifications	CSA	Yes			
		FCC Compliance	Yes			
		ENERGY STAR®	Yes			
		EPEAT	Gold*			
	Environmental	BFR/CFR/PVC-free	Yes, except for external power supply and power cord			
		Arsenic-free display	Yes			
		Leakage current meets NFPA99	Yes			
		TAA Compliant	Yes			
	-		sit: http://www.hp.com/accessibility. http://www.epeat.net for registration status in			

your country.



Technical Specifications

Eco-Label Certifications & 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:

declarations					
	US Energy Star				
	IT ECO declaration				
	 EPEAT Gold where HP registers c registration status in your countil 		ts. See http://www.epeat.net for		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Ultra-sli Desktop model is based on a typically configured product				
Energy Consumption	115 VAC	230 VAC	100 VAC		
Normal Operation	38.325W	38.6587W	38.3344W		
Sleep (Energy Star low	4.021W	4.0931W	4.0194W		
power mode)					
Off	2.8491W	2.9215W	2.8496W		
Heat Dissipation*	115 VAC	230 VAC	100 VAC		
Normal Operation	131 BTU/hr	132 BTU/hr	131 BTU/hr		
Sleep	14 BTU/hr	14 BTU/hr	14 BTU/hr		
Off	10 BTU/hr	10 BTU/hr	10 BTU/hr		
	NOTE: Heat dissipation is calculated bas for one hour.	sed on the measured watts	, assuming the service level is attained		
Declared Noise Emission	5				
(in accordance with	-				
ISO 7779 and ISO 9296)					
System Fan Off	Sound Power		Sound Pressure		
	(LWAd, bels)		(LpAm, decibels)		
Idle	3.8		27		
Fixed Disk	4.1		29		
(random writes)					
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC				
	Batteries used in the product do not co	ntain:			
	 Mercury greater the 5ppm by we 	eight			
	• Cadmium greater than 10ppm by	y weight			
	Battery size: CR2032 Battery type:				
Additional Information		h the Restrictions of Hazar	dous Substances (RoHS) directive -		
Additional mormation	 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 (Directive - 2002/96/EC. 				
This product is in compliance with California Proposition 65 (State of California; Safe Dri					
	 and Toxic Enforcement Act of 19 This product is in compliance wit 		andard at the Gold where HP registers		
			pr registration status in your country.		
			re marked per ISO 11469 and ISO1043.		
	 This product contains 0% post contains 	onsumer recycled plastic (b	v wt.)		

- This product contains 0% post consumer recycled plastic (by wt.)
- This product is 96% recyclable when properly disposed of at end of life.

Technical Specifications

Packaging Materials

- External:
 - Paper / Cardboard 1881 g
 - Internal:
 - Polyethylene low density 76 g
- The Paper / Cardboard packaging material is made from 80% recycled content.
- The Polyethylene low density packaging material is made from 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):

- 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
- 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)

Nickel finishes that release greater than 0.5 micro-grams/cm^2/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users. HP follows these guidelines to decrease the environmental impact of product packaging:

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.
- 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.



Technical Specifications

Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. **End-of-life Management** 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 and Recycling 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. For more information about HP's commitment to the environment: **Hewlett-Packard** Corporate Environmental Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Information **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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