Technical Specifications

HP Series 7 Pro 27 inch QHD Thunderbolt 4 Monitor - 727pu

Front

1. Power Button

2. Power LED

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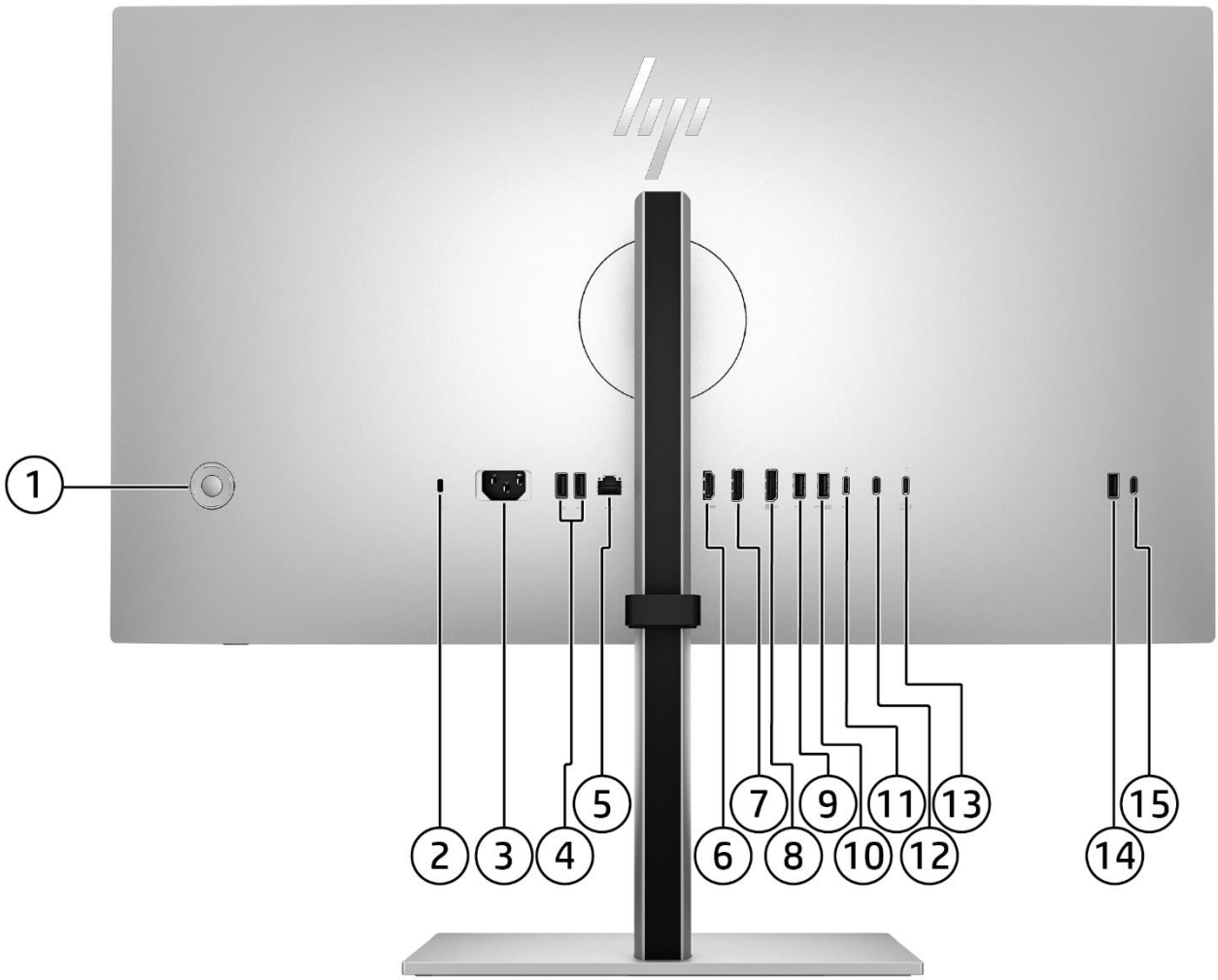

Back

1. Joypad OSD button
2. Security Cable Slot
3. Power Connector
4. 2 USB Type-A 10Gbps signaling rate port
5. RJ-45 (10/100/1000 Mbps) (Network Port)
6. HDMI 2.0 Port
7. DisplayPort™ 1.4 port
8. DisplayPort™ 1.4 – out port
9. USB Type-A 10Gbps signaling rate
10. USB Type-A 10Gbps signaling rate, dedicated port for keyboard for KVM switch
11. USB Type-C® 10Gbps signaling rate (Upstream Hub enablement data)
12. Thunderbolt™ 4 Out port for daisy chain (charging),
13. Thunderbolt™ 4 40Gbps (up to 100 W USB Power Delivery, DisplayPort™ 1.4)
14. USB Type-A 10Gbps signaling rate (charging)
15 USB Type-C® 10Gbps signaling rate (charging)

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Model: 8J9E6AA, 8J9E6E9, 8J9E6AT, 8J9E6A5

Panel Specifications	**Display Size (Diagonal)**	27" (68.6 cm)
	Viewable Diagonal Size	27" (68.47 cm)
	Panel Technology	IPS Black
	Curvature	Flat
	Max Refresh Rate	120 Hz
	Native Resolution	QHD (2560 x 1440)
	Panel Bit Depth	10 bit (8 bit + FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	400 nits
	HDR	VESA DisplayHDR™ 400
	Display Contrast Ratio (Static)	2000:1
	Display Contrast Ratio (Dynamic)	10000000:1 = 10M:1
	Flicker Free	Yes
	Pixel Pitch	0.23 x 0.23 mm
	Pixels Per Inch (PPI)	109 PPI
	Display Colors	Up to 1.07 billion colors supported* *Number of colors through A-FRC technology.
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30k
	Backlight Type	Edge-lit
	Screen Treatment	Anti-glare
	Hardness	3H
	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle (Typical Cr>10)	178°
	Vertical Viewing Angle (Typical Cr>10)	178°
	Panel Active Area Metric (W X H)	59.67 x 33.57 cm
	Panel Active Area Imperial (W X H)	23.49 x 13.22 in
	NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
	Variable Refresh Rate Technology	AMD FreeSync™ Premium
Color	**sRGB**	100%
	Display P3	98%
Color Management	**Factory Color Calibrated**	Yes
	Calibrated Color Presets	Display P3, BT.709 D65, sRGB D65
	Color Space/ Subsampling Support	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	RGB Channel Adjust	Yes, Gain
	User Calibration Support	Host software (Windows or macOS)
	External Calibration Support	X-Rite i1Display Pro
	Standalone/ Schedulable Calibration	Yes, Schedulable
	Default Color Temperature	Neutral

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Monitor Specifications	**Bezel Type**	4-sided borderless
	Color Of Stand	Black and Silver
	Color Of Head	Black and Silver
	Tilt	-5 to +20°
	Swivel	±45°
	Pivot	±90°
	Height Adjust Range	150 mm
	Vesa Mounting	100 mm x 100 mm (bracket included)
	Security Lock	Security lock-ready
	Detachable Stand	Yes
	Warranty	3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries)
	Low Blue Light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	Zero Bright Dot Guarantee	Yes* *The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see http://support.hp.com/us-en/document/c00288895.
	Management Software	HP Display Manager, HP Display Center* *Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.
On Screen Display (OSD)	**On Screen Display**	Image, Color, Split Screen, Input, Power, Menu, Management, Information, Exit
	Native Resolution	QHD (2560 x 1440)* * DisplayPort™ 1.4 or HDMI 2.0 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 2560 × 1440 at 120 Hz with 10-bit color using one DisplayPort™, HDMI, or USB Type-C® (DisplayPort™ alt mode), Thunderbolt™. The video card of the connected PC must be capable of supporting 2560 x 1440 at 60 Hz and include 1 HDMI or 1 DisplayPort™ outputs to drive the monitor at the Preferred Mode
	Maximum Resolution	QHD (2560 X 1440 @120Hz)
	Preset Graphic Modes/Supported Resolutions	640 x 480 @ 60 Hz 640 x 480 @ 75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 800 x 600 @ 75 Hz 1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz 1280 x 720 @ 60 Hz 1280 x 1024 @ 60 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz

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		1600 x 1200 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 50 Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 100 Hz 1920 x 1080 @ 120 Hz 1920 x 1200 @ 60 Hz 2560 x 1440 @ 60 Hz 2560 x 1440 @ 75 Hz 2560 x 1440 @ 100 Hz 2560 x 1440 @ 120 Hz
	Minimum Vertical Scan Rate	48 Hz
	Maximum Vertical Scan Rate	120 Hz
	Minimum Horizontal Scan Rate	30 kHz
	Maximum Horizontal Scan Rate	190 kHz
	Maximum Pixel Clock	500 MHz
	User Programmable Modes	Yes, 22
	User-Assignable Function Buttons	Yes, 4 (8options)
	Languages	11 (German, Simplified Chinese, Traditional Chinese, English, Spanish, French, Italian, Japanese, Netherlands, Brazilian Portuguese, Russian)
Connector Types	**DisplayPort™**	1 DisplayPort™ 1.4
	DisplayPort™ Out	1 DisplayPort™ 1.4-out
	HDMI	1 HDMI 2.0
	HDCP	Yes, DisplayPort™, HDMI and Thunderbolt™
	USB Type-C® Video & Data Transfer	1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (up to 100 W USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-C® 10Gbps signaling rate upstream (Up to
	USB Type-C® Data Transfer Only	15W USB Power Delivery); 1 USB Type-C® 10Gbps signaling rate (15 W charging)
	Thunderbolt™ Out	1 Thunderbolt™ 4 Out for Daisy chain (15 W charging)
	USB Type-A	5 USB Type-A 10Gbps signaling rate (1 charging with 7.5 W)
	Ethernet	1 RJ-45 (10/100/1000 Mbps)
Special Features	**Picture-in-Picture, Picture-by-Picture**	Yes
	Switch	Next Active Input, Color, Split Screen (On/Off), Brightness
	Remote Manageability	Out-of-Band MAPT, Out-of-Band WoL, PXE Boot
	User Presets	22
	User Updateable Firmware	Yes
	KVM Switch	Yes, Keyboard switch
Other Special Features		Ambient Light Sensor Single Power On Daisy chain Pantone validated
Power & Operating Specs	**Power Supply**	Internal
	Power Source	100 – 240 VAC 50/60 Hz

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	Power Consumption- Max	210 W
	Energy Saving/Stand By Mode	0.5 W
	Power Consumption - Typical	41 W
Energy Star Data	**Operational Mode at 100 VAC**	20.54 W
	Operational Mode at 115 VAC	20.26 W
	Operational Mode at 230 VAC	20.69 W
EU Energy Efficiency Class (ErP LOT-5)	**On-mode Power Consumption for Standard Dynamic Range (SDR)**	26 W
EU Energy Efficiency Class (ErP LOT-5)	**ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)**	
	On-mode Power Consumption for High Dynamic Range (HDR)	42 W
	ErP LOT5 Energy Efficiency Class for High Dynamic Range (HDR)	
Operating Conditions	**Operating Temperature - Celsius**	5~35°C
	Operating Temperature - Fahrenheit	41– 95°F
	Non-Operating Temperature - Celsius	–20 – 60°C
	Non-Operating Temperature - Fahrenheit	–4 – 140°F
	Operating Humidity	20 – 80% Relative Humidity (non-condensing)
	Non-Operating Humidity	5~95%RH
	Operating Altitude Metric	0~5,000m
	Non-operating Altitude Metric	0~12,192m
	Operating Altitude Imperial	0~16,400ft
	Non-operating Altitude Imperial	0~40,000ft
Certifications and Compliances	**Low Halogen**	Yes*
		*External power supplies, WWAN modules, power cords, cables and peripherals excluded.
	Agency Approvals and Certifications	WW application CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/UL/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Energy Star/ISC/VCCI/FCC/BSMI/Korea MEPS/Ukraine EE/Belarus EE /WEEE/GS/Low Blue light/UAE/Ukraine/BIS/RCM
	Microsoft WHQL Certification	Windows 11, Windows 10
	ENERGY STAR® Certified	Yes
	EPEAT® Registered	EPEAT® Gold in United States*
		*Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
	China Energy Label	CEL Grade 2
	TCO Certified Edge	Yes
	TCO Certified	Yes

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	SmartWay Transport Partnership - NA only	Yes (NA sku)
Contains Recycled Plastics	**Contains Recycled Plastics**	90% post-consumer recycled plastic * *Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
	Recycled Metal	90% recycled aluminum * Made with 15% recycled steel *Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
	Recyclable Packaging (Box, packing materials)	Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable*; Outside box and corrugated cushions are 100% sustainably sourced and recyclable** *Molded pulp cushions are made from 100% recycled wood fiber and organic materials. **100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

		Metric	**Imperial**
Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	61.34 x 22.52 x 54.05 cm	24.15 x 8.87 x 21.28 in
	Product Dimensions (Packed) (W x D x H)	71.5 x 16.1 x 45.5 cm	28.15 x 6.34 x 17.91 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	61.34 x 7.45 x 35.40 cm	24.15 x 2.93 x 13.94 in
	Base Area Footprint (w x d mm)	256 x 195 mm	10.08 x 7.68 in
	Product Weight (Unpacked with stand)	7kg	15.43lb
	Product Weight (Packed)	10.3 kg	22.7 lb
	Product Weight (Head Only)	5.52kg	12.17lb
Pallet Information	**Pallet Dimensions** (L x W x H mm)	Slip Sheet: 1150 x 735 x 2291 mm (40'HQ) Pallet: 1150 x 735 x 1957 mm (40'ft)	Slip Sheet: 45.28 x 28.94 x 90.2 inch (40'HQ) Pallet: 45.28 x 28.94 x 77.05 inch (40'ft)
	Pallet Total Weight	Slip Sheet: 365.8 kg (40'HQ) Pallet: 302.8 kg (40'ft)	Slip Sheet: 806.5 lb (40'HQ) Pallet: 667.6 lb (40'ft)
	Pallet Layers	Slip Sheet: 5 layers (40'HQ) Pallet: 4 layers (40'ft)	
	Pallet Product per Layer	7 sets	
	Total Products per Pallet	Slip Sheet: 35 sets (40'HQ) Pallet: 28 sets (40'ft)	

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	Container Load, 20-Foot	392 sets (Slip Sheet and Pallet)
	Container Load, 40-Foot	896 sets (Slip Sheet and Pallet)
	Container Load, 40-Foot HighQ	1120 sets (Slip Sheet and Pallet)
What's in the box?	AC power cord (1.83m) 5.9ft HDMI 2.0 cable (1.8m) 5.9 ft (Selected SKUs) USB 3.1 C-A cable (1.8m) (Selected SKUs) DisplayPort™ 1.4 cable (1.8m) (Selected SKUs) Thunderbolt™. cable (1m) Warranty Quick Setup Poster Color calibration report VESA Mount Adapter	
User Guide and Warranty Languages	**User Guide Languages**	Arabic, Bahasa Indonesia, Bulgarian, Chinese-S, Chinese-T, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (Iberian), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkey, Ukrainian
	Warranty Languages	English US (EN), English AP (EN-AP), English LA (EN-LA), English UK (EN-GB), Arabic (AR) -17x, Bahasa Indonesia (ID), Bosnian (BS), Bulgarian (BG), Chinese-S (CN), Chinese-T (TW), Croatian (HR), Czech (CS), Danish (DA), Dutch (NL), Estonian (ET), Finnish (FI), French Canadian (FC), French European (FR), German (DE), Greek (EL), Hebrew (HE), Hungarian (HU), Italian (IT), Japanese (JA), Kazakh (KK), Korean (KO), Latvian (LV), Lithuanian (LT), Norwegian (NO), Polish (PL), Portuguese, Brazilian (BR), Portuguese, Iberian (PT), Romanian (RO), Russian (RU), Serbian (SR), Slovak (SK), Slovenian (SL), Spanish, Castilian (ES-ES), Spanish, Latin America (ES-MX), Swedish (SV), Thai (TH), Turkish (TR), Ukrainian (UK), Vietnamese (VI)

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ENVIRONMENTAL DATA

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: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT Silver registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*		
Sustainable Impact Specifications	• Product Carbon Footprint • 80% post-consumer recycled plastic • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable • Recycled Plastic cushions		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".		
Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	25.82 W	25.77 W	25.86 W
Sleep	0.78 W	0.80 W	0.78 W
Off	0.21 W	0.24 W	0.21 W
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system		
Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	88.30 BTU/hr	88.13 BTU/hr	88.44 BTU/hr
Sleep	2.66 BTU/hr	2.73 BTU/hr	2.66 BTU/hr
Off	0.71 BTU/hr	0.82 BTU/hr	0.71 BTU/hr
	*__NOTE:__ Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the		

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	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.		
Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/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 level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product is 96.5% recycle-able when properly disposed of at end of life.		
Packaging Materials	**External:**	PAPER/Corrugated	1830 g
		PAPER/Molded Pulp	660 g
	Internal:	PLASTIC/Polyethylene Expanded – EPE	30 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 0.0% recycled content.		
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.		
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		

	• Bis(2-Ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP) • 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 Usage	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. • 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	HP 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.

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HP, Inc. 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://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	• Percentage of ocean-bound plastic contained in each component varies by product • Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. • External power supplies, WWAN modules, power cords, cables and peripherals excluded. • 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. • Fiber cushions made from 100% recycled wood fiber and organic materials. • Plastic cushions are made from >90% recycled plastic

Summary

Change Log			
May 2, 2024	V1 to V2	Update	Call out images and doc title corrected
	V2 to V3		
	V3 to V4		