HP E24 G5 FHD Monitor

**Technical Specifications** 

### HP E24 G5 FHD Monitor



1. Power Button

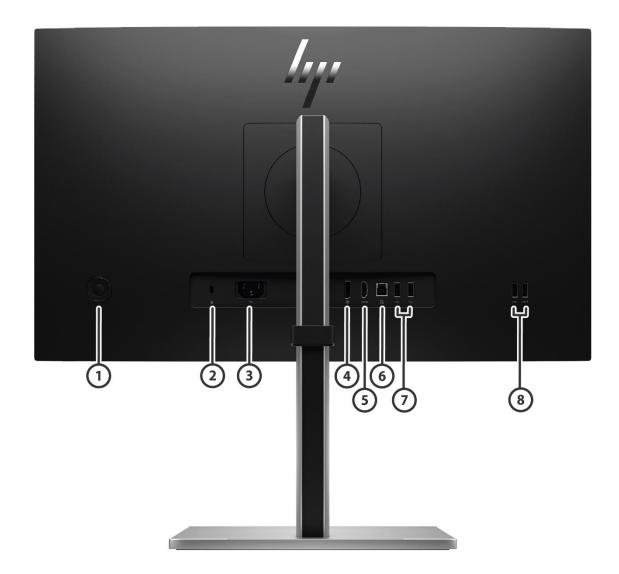
Front 2. LED Power



#### HP E24 G5 FHD Monitor

### **Technical Specifications**

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- 1. Joypad OSD button
- 2. Security Cable Slot
- 3. Power Connector
- 4. DisplayPort<sup>™</sup> 1.2

#### Back

- 5. HDMI 1.4 Port
- 6. USB-B port
- 7. SuperSpeed USB Type-A 5Gbps signaling rate (2)
- 8. SuperSpeed USB Type-A 5Gbps signaling rate (2) 1 charging



#### **Technical Specifications**

Model: 6N6E9AA

Danal Cracifications		22.9 inch (60.5 cm)
Panel Specifications	Display Size (Diagonal) Viewable Diagonal Size	23.8 inch (60.5 cm) 23.8 inch (60.47 cm)
	Viewable Diagonal Size	
	Panel Technology	
	Max Refresh Rate	75Hz
	Native Resolution	FHD (1920 x 1080)
	Panel Bit Depth	8 bit (6 bit + FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	250 nits
	Contrast Ratio (Static)	1000:1
	Dynamic Contrast Ratio	8M:1
	Flicker Free	Yes
	Pixel Pitch	0.27 x 0.27 mm
	Pixels Per Inch (PPI)	93 PPI
	Display Colors	Up to 16.7 million colors supported*
		*Number of colors through A-FRC technology.
	Backlight Lamp Life Minimum (To Half	30k
	Brightness - In Hours)	SOK
	Backlight Type	Edge-lit
	Screen Treatment	Anti-glare
	Hardness	3H
	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle	1700
	(Typical Cr>10)	178°
	Vertical Viewing Angle (Typical Cr>10)	178°
	Panel Active Area Metric (W X H)	52.70 x 29.65 cm
	Panel Active Area Imperial (W X H)	20.75 x 11.67 in
	-	ne typical specifications provided by HP's component
	manufacturers; actual performance may vary e	
Color	sRGB	99%
Color Monocoment	Color Concol Subcompling Support	
Color Management	Color Space/ Subsampling Support RGB Channel Adjust	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	-	Yes, Gain
	Default Color Temperature	Neutral (6500K)
	Factory Color Calibrated	Yes (Color Temperature)
	Factory Color Presets	Warm - 5000K,
		Neutral - 6500K,
		Cool - 9300K
Monitor Specifications	Bezel Type	3-sided borderless
	Color Of Stand	Black & Silver
	Color Of Head	Black
	Tilt	Yes, -5~+23°
	Swivel	±45°
	Pivot	±90°
	Height Adjust Range	±90 150 mm
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### Technical Specifications

#### HP E24 G5 FHD Monitor

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Security lockSecurity lockDetachable StandYesJ3/30 for LA, NA, EMEA, APJ(J3/3 in select APJ Countries)Low Blue Light(J3/3 in select APJ Countries)Management SoftwareHP Display Center, HP Display Manager*the Streem DisplayOn Screem DisplayNative ResolutionFrightness +, Color, Image, Input, Power, Menu, Management, Information, ExitMaximum ResolutionFHD (1920 x 1080 @ 75 Hz)Preset Graphic Modes/Supported640 x 480 @ 60 HzResolutionsFHD (1920 x 1080 @ 75 Hz)Preset Graphic Modes/Supported640 x 480 @ 60 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 200 @ 50 Hz1280 x 1080 @ 75 Hz1280 x 1080 @ 50 Hz1280 x 1080 @ 75 Hz1980 x 1080 @ 75 Hz1180 x 1080 @ 75 Hz1980 x 1080 @ 75 Hz1280 x 1080 @ 75 Hz </th <th></th> <th>Vesa Mounting</th> <th>100 mm x 100 mm</th>		Vesa Mounting	100 mm x 100 mm
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Low Blue LightYes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)Management SoftwareHP Display Center, HP Display Manager* "Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.On Screen DisplayOn Screen DisplayMaximum ResolutionBrightness +, Color, Image, Input, Power, Menu, Management, Information, Exit FHD (1920 x 1080)Preset Graphic Modes/Supported ResolutionsFHD (1920 x 1080) @ 75 Hz) 640 x 480 @ 60 Hz 640 x 480 @ 60 Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1024 x 768 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1080 @ 60 Hz 13920 x 1080 @ 50 Hz 13920 x 1080 @ 60 Hz 13920 x 1080 @ 50 Hz 13920 x 1080 @ 60 Hz 13920 x 1080		Warranty	
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On Screen Display (0SD)       On Screen Display Native Resolution       Brightness +, Color, Image, Input, Power, Menu, Management, Information, Exit         Native Resolution       FHD (1920 x 1080 @ 75 Hz)         Preset Graphic Modes/Supported Resolutions       FHD (1920 x 1080 @ 75 Hz)         640 × 480 @ 75 Hz       640 × 480 @ 75 Hz         70 × 400 @ 70 Hz       800 × 600 @ 75 Hz         800 × 600 @ 60 Hz       800 × 600 @ 75 Hz         1024 × 768 @ 75 Hz       1280 × 720 @ 60 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       1280 × 720 @ 50 Hz         1280 × 720 @ 50 Hz       12920 × 1080 @ 50 Hz         12920 × 1080 @ 50 Hz       12920 × 1080 @ 75 Hz         1320 × 1080 @ 50 Hz       1320 × 1080 @ 75 Hz         1320 × 1080 @ 75 Hz       1320 × 1080 @ 75 Hz         1320 × 1080 @ 75 Hz       1320 × 1080 @ 75 Hz         1320 × 1080 @ 75 Hz       1320 × 1080 @ 75 Hz         1320 × 1080 @ 75 Hz			
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Connector Types     DisplayPort™     1 DisplayPort™ 1.2       HDMI     1 HDMI 1.4		Languages	
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HDMI 1 HDMI 1.4			
HDMI 1.4	Connector Types	DisplayPort™	1 DisplayPort™ 1.2
	connector 13hea		



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	USB-A	4 SuperSpeed USB Type-A 5Gbps signaling rate (1
		charging)
	USB-B (Hub enablement)	1 USB-B
Special Features	SWITCH	Monitor Power button
••••		Next Active Input/ Up button
		Information / Down button
		Brightness / Left button
		Color / Right button
		Menu / Enter button
	User Presets	18
		10
Power & Operating	Power Supply	Internal
Specs	Power Source	100 – 240 VAC 50/60 Hz
Specs	Power Consumption- Max	53W
	Energy Saving/Stand By Mode	0.5W
	Power Consumption - Typical	22W
	Power consumption - Typicat	
Energy Star Data	Operational Mode at 100 VAC	12.34W
Lifergy Star Data	Operational Mode at 115 VAC	12.29W
	Operational Mode at 230 VAC	12.34W
	operational ridge at 250 VAC	12.54W
EU Energy Efficiency	On-mode Power Consumption for	
Class (ErP LOT-5)	Standard Dynamic Range (SDR)	13.1W
	ErP LOT5 Energy Efficiency Class for	A
	Standard Dynamic Range (SDR)	
<b>Operating Conditions</b>	Operating Temperature - Celsius	5° – 35°C
	Operating Temperature - Fahrenheit	41° – 95°F
	Non-Operating Temperature - Celsius	-40° - 65°C
	Non-Operating Temperature -	-40° – 149°F
	Fahrenheit	
	Operating Humidity	20 – 80% Relative Humidity (non-condensing)
	Non-Operating Humidity	5 – 95%
	Operating Altitude	0 – 5,000 m (16,400 ft.)
	Non-operating Altitude	0 – 12,192 m (40,000 ft.)
	non operating nettaac	
Certifications and	Low Halogen	Yes*
Compliances		*External power supplies, WWAN modules, power cords, cables
compliances		and peripherals excluded.
	Agency Approvals and Certifications	WW application
	5 5 11	CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-
		307/cTUVus/GS/ISC/CCC/CEL/CECP/SEPA/TCO/TCO
		Certified Edge/Hardware Low Blue Light/Energy
		Star/VCCI/FCC/BSMI/BIS/NRCS/UAE/Ukraine/Vietnam
		MEPS/Australian-New Zealand MEPS/Ukraine
		EE/WEEE/EAC/PSE/ Korea MEPS /TGM
	Microsoft WHQL Certification	Win 11 (x64 only), Win 10 (x64 only)
	ENERGY STAR <sup>®</sup> Certified	Yes



#### HP E24 G5 FHD Monitor

	EPEAT® Registered Regions need to verify by country	EPEAT <sup>®</sup> Gold in United States	
	China Energy Label TCO Certified Edge TCO Certified	*Based on US EPEAT® registratio 2018 EPEAT®. Status varies by co http://www.epeat.net for mor CEL Grade 1 Yes Yes	ountry. Visit
	SmartWay Transport Partnership - NA only	Yes (NA sku)	
Contains Recycled Plastics	Contains Recycled Plastics	Contains Ocean-Bound Plastic* plastic** * All plastic parts contain ocean- ocean-bound plastic contained in product. ** ITE Derived Closed Loop Plasti definition set in the IEEE 1680.1-	bound plastic. Percentage of n each component varies by c percentage is based on the
	Recycled Metals	At least 25% recycled metal* *Recycled metal is expressed as of the metal according to ISO 140 over 25 grams.	a percentage of the total weight
	Recyclable Packaging (Box, packing materials)	Outside Box and corrugated of sustainably sourced and recyc Molded Paper Pulp Cushion in sustainably sourced and recyc *100% outer box packaging and sustainably sourced certified and ** Molded pulp cushions are made fiber and organic materials.	clable* side box is 100% clable** corrugated cushions made from 1 recycled fibers.
		<u>Metric</u>	<u>Imperial</u>
Unit Product/Package Specifications	<b>Product Dimensions</b> (Unpacked with stand) (W x D x H)	53.94 x 21.1 x 50.7 cm	21.24 x 8.31 x 19.96 inch
	<b>Product Dimensions</b> (Packed) (W x D x H)	62.1 x 14 x 40 cm	24.45 x 5.51 x 15.75 inch
	<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	53.94 x 4.7 x 32.26 cm (w/o hinge) 53.94 x 7.5 x 32.26 cm (w/hinge)	21.24 x 1.85 x 12.7 inch (w/o hinge) 21.24 x 2.95 x 12.7 inch (w/ hinge)
	<b>Base Area Footprint</b> (w x d mm)	242 x 187 mm	9.53 x 7.36 inch
	Bezel Measurements Product Weight (Unpacked with stand)	Bottom:18.1 mm 5.4 kg	Bottom:0.71 inch 11.9 lb
	Product Weight (Packed)	7.6 kg	16.8 lb
	<b>Product Weight</b> (Head Only)	3.4 kg (w/o hinge) 3.8 kg (w/ hinge)	7.5 lb (w/o hinge) 8.4 lb (w/ hinge)



#### HP E24 G5 FHD Monitor

Technical Specifica	itions		
Pallet Information	<b>Pallet Dimensions</b> (L x W x H mm)	Slip Sheet: 1128 x 629 x 2009 mm	Slip Sheet: 44.41 x 24.76 x 79.09 inch
	(_// // // // // // // // // // // // //	(20' ft & 40' ft)	(20' ft & 40' ft)
		Slip Sheet:	Slip Sheet:
		1128 x 629 x 2412 mm	44.41 x 24.76 x 94.96 inch
		(40HQ)	(40HQ)
		Pallet:	Pallet:
		1128 x 629 x 2140 mm	44.41 x 24.76 x 84.25 inch
		(20' ft & 40' ft)	(20' ft & 40' ft)
		Pallet:	Pallet:
		1128 x 629 x 2540 mm	44.41 x 24.76 x 100 inch
		(40HQ)	(40HQ)
	Pallet Total Weight	Slip Sheet:	Slip Sheet:
	-	307.84 kg (20' ft & 40' ft)	678.68 lb (20' ft & 40' ft)
		Slip Sheet:	Slip Sheet:
		369.23 kg (40HQ)	814.02 lb (40HQ)
		Pallet:	Pallet:
		320.18 kg (20' ft & 40' ft)	705.88 lb (20' ft & 40' ft)
		Pallet:	Pallet:
		381.76 kg (40HQ)	841.64 lb (40HQ)
	Pallet Layers	Slip Sheet: 5 layers (20' ft 8	k 40' ft)
		Slip Sheet: 6 layers (40' ft H	IQ)
		Pallet: 5 layers (20' ft & 40'	ft)
		Pallet: 6 layers (40' ft HQ)	
	Pallet Product per Layer	8 per layer (slip sheet)	
	i allet i fouact per Layer	8 per layer (pallet)	
		Slip Sheet: 40 sets (20' ft &	
	Total Products per Pallet	Slip Sheet: 48 sets (40' ft H	
		Pallet: 40 sets (20' ft & 40'	ft)
		Pallet: 48 sets (40' ft HQ)	
	Container Load, 20-Foot	720 sets (slip sheet)	
		720 sets (pallet)	
	Container Load, 40-Foot	1520 sets (slip sheet)	
	-	1520 sets (pallet)	
	Container Load, 40-Foot HighQ	1824 sets (slip sheet)	
	_	1824 sets (pallet)	
What's in the box?	AC power cord (1.83m) 5.9ft		
	HDMI 1.4 cable (1.8m) 5.9 ft		
	USB 3.0 B-A cable (1.8m)		
	DP 1.2 cable (1.8m)		
	Warranty		
	Quick Setup Poster		
User Guide and	User Guide Languages	Arabic, Bahasa Indonesia, B	Bulgarian, Chinese-S, Chinese-
Warranty Languages		T, Czech, Danish, Dutch, En	
		French, German, Greek, Het	
		Japanese, Kazakh, Korean,	-
	User Guide Languages	T, Czech, Danish, Dutch, En French, German, Greek, Hel	glish, Estonian, Finnish, prew, Hungarian, Italian, Latvian, Lithuanian,

Norwegian, Polish, Portuguese (Brazilian), Portuguese

### **Technical Specifications**

#### **Warranty Languages**

(Iberian), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkey, Ukrainian 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)



### **Technical Specifications**

#### ENVIRONMENTAL DATA

ENVIKUNMENTAL DATA		ar is in the process of heing s	wtified to the following approvals and may		
Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may				
& declarations	be labeled with one or mo				
	IT ECO declaration				
	US ENERGY STAR	B			
	US Federal Energy	y Management Program (FEM	P)		
			e http://www.epeat.net for registration		
	status in your cou				
	TCO Certified Edg				
	-	servation Program (CECP)			
		onmental Protection Administ	ration (CEDA)		
			Talion (SEPA)		
	Taiwan Green Ma	rk			
	Korea Eco-label				
	Japan PC Green la	ibel*			
Sustainable Impact	• 80% ITE – derived closed	loop plastic			
Specifications	<ul> <li>30% recycled metal</li> </ul>				
	<ul> <li>Low halogen</li> </ul>				
	• Outside Box and corruga	ted cushions are 100% sustai	nably sourced and recyclable		
	Molded Paper Pulp Cushi	on inside box is 100% sustain	ably 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".				
	Notebook model is bused				
Energy Consumption					
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short	12.29 W	12.34 W	12.33 W		
idle)	12.25 W	12.54 W	12.55 W		
Normal Operation (Long	12.29 W	12.34 W	12.33 W		
	12.29 W	12.34 W	12.33 W		
idle)	0.2.14	0.07.14			
Sleep	0.3 W	0.37 W	0.3 W		
Off	0.1 W	0.15 W	0.08 W		
	NOTE:				
		ed is for an ENERGY STAR® col	npliant product if offered within the model		
	Energy efficiency data list		npliant product if offered within the model ogo are compliant with the applicable U.S.		
	Energy efficiency data list family. HP computers mar	ked with the ENERGY STAR® L	ogo are compliant with the applicable U.S.		
	Energy efficiency data list family. HP computers mar Environmental Protection	ked with the ENERGY STAR® L Agency (EPA) ENERGY STAR® :	ogo are compliant with the applicable U.S. specifications for computers. If a model		
	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENE	ked with the ENERGY STAR® L Agency (EPA) ENERGY STAR® RGY STAR® compliant configu	ogo are compliant with the applicable U.S. specifications for computers. If a model rations, then energy efficiency data listed is		
	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENE	ked with the ENERGY STAR <sup>®</sup> L Agency (EPA) ENERGY STAR <sup>®</sup> RGY STAR <sup>®</sup> compliant configu PC featuring a hard disk drive,	ogo are compliant with the applicable U.S. specifications for computers. If a model		
	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENEI for a typically configured I Microsoft Windows® opera	ked with the ENERGY STAR® L Agency (EPA) ENERGY STAR® RGY STAR® compliant configu PC featuring a hard disk drive, ating system.	ogo are compliant with the applicable U.S. specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a		
Heat Dissipation*	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured I Microsoft Windows® opera	ked with the ENERGY STAR <sup>®</sup> L Agency (EPA) ENERGY STAR <sup>®</sup> RGY STAR <sup>®</sup> compliant configur PC featuring a hard disk drive, ating system. <b>230VAC, 50Hz</b>	ogo are compliant with the applicable U.S. specifications for computers. If a model rations, then energy efficiency data listed is a high efficiency power supply, and a <b>100VAC, 50Hz</b>		
Normal Operation (Short	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENEI for a typically configured I Microsoft Windows® opera	ked with the ENERGY STAR® L Agency (EPA) ENERGY STAR® RGY STAR® compliant configu PC featuring a hard disk drive, ating system.	ogo are compliant with the applicable U.S. specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a		
Normal Operation (Short idle)	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENEI for a typically configured I Microsoft Windows® opera 115VAC, 60Hz 42.0 BTU/hr	ked with the ENERGY STAR® L Agency (EPA) ENERGY STAR® RGY STAR® compliant configur PC featuring a hard disk drive, ating system. <b>230VAC, 50Hz</b> 42.2 BTU/hr	ogo are compliant with the applicable U.S. specifications for computers. If a model rations, then energy efficiency data listed is a high efficiency power supply, and a <b>100VAC, 50Hz</b> 42.2 BTU/hr		
Normal Operation (Short	Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured I Microsoft Windows® opera	ked with the ENERGY STAR <sup>®</sup> L Agency (EPA) ENERGY STAR <sup>®</sup> RGY STAR <sup>®</sup> compliant configur PC featuring a hard disk drive, ating system. <b>230VAC, 50Hz</b>	ogo are compliant with the applicable U.S. specifications for computers. If a model rations, then energy efficiency data listed is a high efficiency power supply, and a <b>100VAC, 50Hz</b>		



Sleep	1.0 B	ſU/hr	1.3 BTU/hr	1.0 BTU/hr
Off	0.3 B		0.5 BTU/hr	0.3 BTU/hr
	* <b>NOTE:</b> Heat attained for	•	calculated based on the mea	sured watts, assuming the service level is
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the			
	Spare parts a production.	are available th	nroughout the warranty peri	od and or for up to "5" years after the end of
Additional Information	<ul> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.</li> </ul>			
	<ul> <li>This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, s www.epeat.net</li> <li>Plastics parts weighing over 25 grams used in the product are marked per ISO11469 ISO1043.</li> <li>This product is 97.4% recycle-able when properly disposed of at end of life.</li> </ul>			
Packaging Materials	External:	PAPER/Pap	er	588 g
		PAPER/Pap	er	776 g
		PAPER/Mol	Jed Pulp	446 g
	Internal:	PLASTIC/EP	E (Expanded Polyethylene)	14 g
			E (Expanded Polyethylene)	6 g
			E (Expanded Polyethylene)	4 g
	The plastic packaging material contains at least 0.0% recycled content.			
	The corrugated paper packaging materials contains at least 92.0% recycled content.			
RoHS ComplianceHP Inc. complies fully with materials regulations. We were among the first compare restrictions in the European Union (EU) Restriction of Hazardous Substances (RoH products worldwide through the HP GSE. HP has contributed to the development of legislation in Europe, as well as China, India, and Vietnam.				
	-	-		outed to the development of related
	legislation in We believe th elimination o	Europe, as we ne RoHS direct of substances o C, BFRs, and ce	ell as China, India, and Vietna ive and similar laws play an of concern. We have support	outed to the development of related
	legislation in We believe th elimination of including PV and electron We met our v requirement	Europe, as we ne RoHS direct of substances of C, BFRs, and ce ics products. voluntary obje s for virtually a	ell as China, India, and Vietna ive and similar laws play an of concern. We have support ertain phthalates—in future ctive to achieve worldwide c all relevant products by July	outed to the development of related m. important role in promoting industry-wide ed the inclusion of additional substances—



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)			
	<ul> <li>Dibutyl phthalate (DBP)</li> </ul>			
	<ul> <li>Diisobutyl phthalate (DIBP)</li> </ul>			
	Formaldehyde			
	Halogenated Diphenyl Methanes			
	Lead carbonates and sulfates			
	Lead and Lead compounds			
	Mercuric Oxide Batteries			
	<ul> <li>Nickel – finishes must not be used on the external surface designed to be frequently</li> </ul>			
	handled or carried by the user.			
	Ozone Depleting Substances			
	<ul> <li>Polybrominated Biphenyls (PBBs)</li> </ul>			
	<ul> <li>Polybrominated Biphenyl Ethers (PBBEs)</li> </ul>			
	<ul> <li>Polybrominated Biphenyl Oxides (PBBOs)</li> </ul>			
	<ul> <li>Polychlorinated Biphenyl (PCB)</li> </ul>			
	<ul> <li>Polychlorinated Terphenyls (PCT)</li> </ul>			
	<ul> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has</li> </ul>			
	been voluntarily removed from most applications.			
	Radioactive Substances			
	<ul> <li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>			
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	<ul> <li>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.</li> <li>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.</li> </ul>
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	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	<ul> <li>Percentage of ocean-bound plastic contained in each component varies by product</li> <li>Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li> <li>External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li> <li>100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li> <li>Fiber cushions made from 100% recycled wood fiber and organic materials.</li> <li>Plastic cushions are made from &gt;90% recycled plastic.</li> <li>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</li> </ul>

### **Technical Specifications**

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#### Summary

Change Log					
January 10, 2023	V1 to V2	Added	Environmental Data		
April 12, 2023	V2 to V3	Updated	Color Management section		
	V3 to V4				

