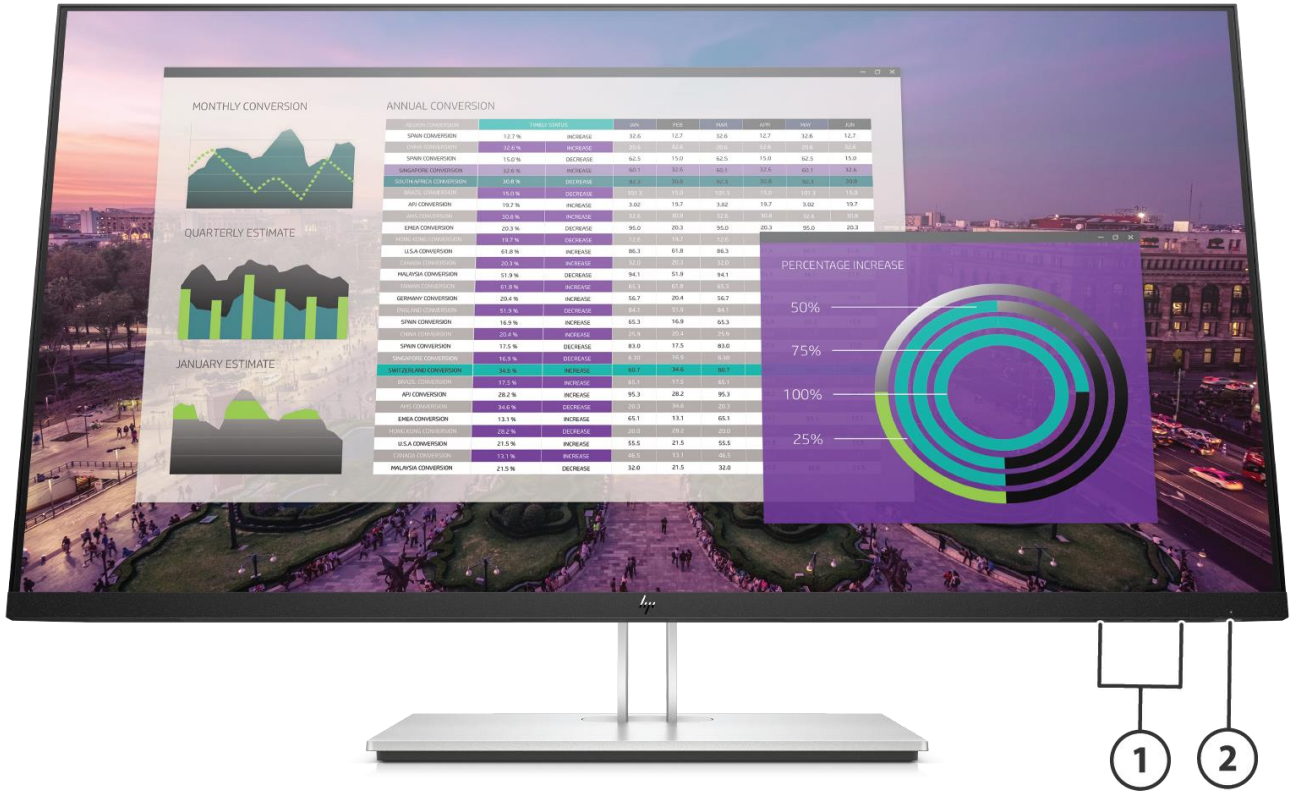


### Technical Specifications

#### HP EliteDisplay E324q 31.5-inch QHD Monitor

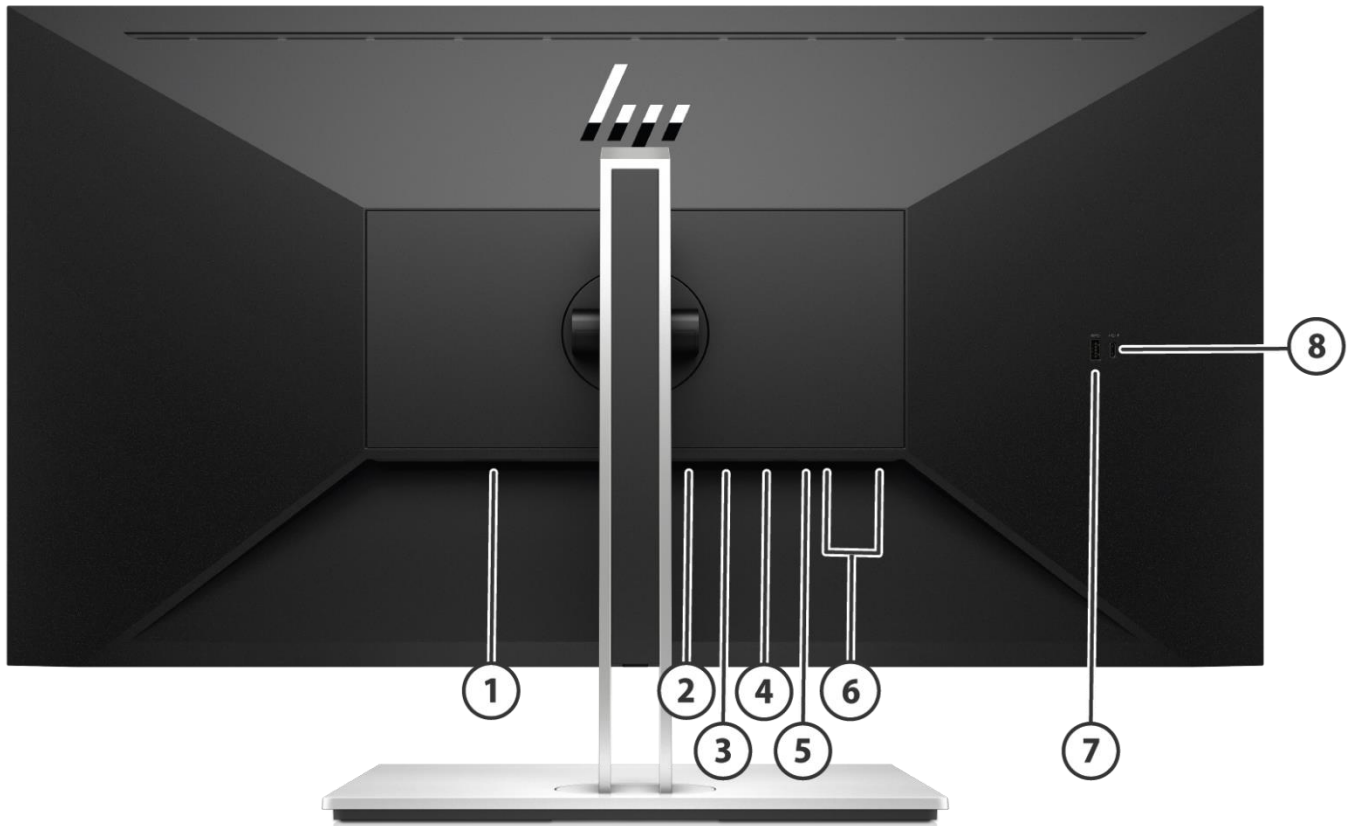


#### Front

- 1. Function Buttons
- 2. Power Button

### Technical Specifications

#### HP EliteDisplay E324q 31.5-inch QHD Monitor



1. Power Connector
2. HDMI Port
3. DisplayPort™
4. USB Type-C™ Supporting DisplayPort™ Alternate Mode

#### Back

5. USB Type-B™
6. USB Type-A™
7. USB Type-A™
8. USB Type-C™ Supporting Data Only

### Technical Specifications

**Model:** 5DP31AA

<b>Panel Specifications</b>	<p><b>Display Size (Diagonal)</b> 31.5-in</p> <p><b>Display Panel Type</b> VA</p> <p><b>Micro-Edge Bezel</b> Yes, 3-sided</p> <p><b>Curved Panel</b> N/A</p> <p><b>Native Resolution/Timing</b> 2560 x 1440 @ 60 Hz</p> <p><b>Native Resolution Note</b> DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution</p> <p><b>Panel Bit Depth</b> 8-bit</p> <p><b>Aspect Ratio</b> 16:9</p> <p><b>Brightness - Typical</b> 350 cd/m<sup>2</sup></p> <p><b>Static Contrast Ratio - Typical</b> 3000:1</p> <p><b>Static Contrast Ratio - Minimum</b> 2000:1</p> <p><b>Dynamic Contrast Ratio (DCR)</b> 5,000,000:1</p> <p><b>Flicker Free</b> Yes</p> <p><b>Pixel Pitch</b> 0.2724 x 0.2724 mm</p> <p><b>Pixels Per Inch (PPI)</b> 93.24</p> <p><b>Backlight Lamp Life (to half brightness - in hours)</b> 30k minimum</p> <p><b>Anti-Glare Panel</b> Yes</p> <p><b>Response Time - Typical</b> 7ms Gray to Gray</p> <p><b>Horizontal Viewing Angle (typical CR&gt;10)</b> 178°</p> <p><b>Vertical Viewing Angle (typical CR&gt;10)</b> 178°</p> <p><b>Panel Active Area (w x h)</b> 697.344 x 392.256 mm</p> <p><b>Preset Graphic Modes/Supported Resolutions</b> 640 x 480 @ 60Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1440 x 900 @ 60 Hz 1600 x 900 @60HZ 1600 x 1200@60HZ 1680x1050 @ 60Hz 1920 x 1080 @ 60 Hz 1920 x 1200@60HZ 2560 x 1440 @ 60 Hz</p> <p><b>Maximum Resolution</b> 2560 x 1440 @ 60 Hz</p> <p><b>Recommended Resolution</b> 2560 x 1440 @ 60 Hz</p> <p><b>Vertical Scan Range</b> 50-60 Hz</p> <p><b>Horizontal Scan Range</b> 30-90 Hz</p> <p><b>Default Color Temperature</b> Standard (6500K)</p> <p><b>Maximum Pixel Clock Speed</b> 250 MHz</p>
<b>Color Gamut Coverage</b>	NTSC 72%
<b>Color Management</b>	<p><b>Factory Color Calibrated</b> Warm/Neutral/Cool/Low Blue Light/Reading/Night</p> <p><b>Factory Color Presets</b> Neutral</p> <p><b>Color Space / Subsampling Support</b> RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2</p> <p><b>Default Color Temperature</b> Natural</p> <p><b>Low Blue Light Modes</b> Yes</p>

### Technical Specifications

	<b>RGB Channel Adjust</b>	Yes, RGB Gain
<b>Monitor Specifications</b>	<b>Exterior Color of Monitor Bezel and Stand</b>	Sparkling Black and Pike Silver
	<b>Plug &amp; Play</b>	Yes
	<b>Tilt</b>	Yes -5° to +20°
	<b>Swivel</b>	Yes -30 to +30
	<b>Pivot</b>	Yes
	<b>Height Adjustment Range</b>	Yes, 20 to 170mm
	<b>VESA Mounting</b>	Yes, 100 mm with integrated mount or with included bracket
	<b>Security Lock Ready</b>	Yes
	<b>Detachable Base</b>	Yes, ships detached
	<b>Warranty</b>	3/3/3
<b>On Screen Display (OSD)</b>	<b>On Screen Display User Controls</b>	Brightness, Contrast, Color, Image, Input, Power, Menu, Management, USB Host, Information, Exit
	<b>User Programmable Modes</b>	Yes, 10
	<b>Monitor Control Buttons or Switches</b>	Power, Menu/OK, Minus ("-"), Plus ("+"), Exit("X")/Return
	<b>User-Assignable Function Buttons</b>	Yes, 3 (7 options)
<b>Connector Types</b>	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	<b>DisplayPort™</b>	1, DisplayPort™ 1.2
	<b>HDMI</b>	1, HDMI 1.4
	<b>USB Type-C™</b>	1, USB-C™ supporting Alt Mode (DisplayPort™ 1.2)
<b>USB Port Specifications</b>	<b>HDCP support</b>	Yes, (DisplayPort and HDMI)
	<b>USB Version</b>	3.1
	<b>USB Hub</b>	Yes
	<b>Downstream Ports</b>	3
<b>USB-Type C™ Port Specifications</b>	<b>Upstream Ports</b>	1 USB-B
	<b>Fast Charging USB Ports</b>	Yes, with dynamic power management
	<b>Downstream USB-Type C™ Ports</b>	1
	<b>Upstream USB-Type C™ Ports</b>	1
	<b>Video Support</b>	Yes
	<b>Power Output</b>	15W
	<b>Power Output Maximum</b>	15W
<b>Power and Operating Specs</b>	<b>Power Supply</b>	Internal
	<b>Power Source</b>	100 to 240 VAC
	<b>Power Consumption - Maximum</b>	95W
	<b>Energy Saving/Standby Mode</b>	0.3W
	<b>Power Consumption - Typical</b>	55W
	<b>Power cable length</b>	1.9 m
<b>Energy Star Data</b>	<b>Operational Mode at 100 VAC</b>	24.83
	<b>Operational Mode at 115 VAC</b>	1.12
	<b>Operational Mode at 230 VAC</b>	0.12
<b>EU Energy Efficiency Class (EC1062)</b>	<b>On-mode Power Consumption (EC 1062/2010)</b>	37W
	<b>Annual Power Consumption (EC 1062/2010)</b>	55W

### Technical Specifications

	<b>Energy Efficiency Class (EC 1062/2010)</b>	A
	<b>Visible Screen Size</b>	31.5"
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	5°C ~ 35°C
	<b>Operating Temperature - Fahrenheit</b>	41°C~95°F
	<b>Non-operating Temperature - Celsius</b>	-20° ~ 60°C
	<b>Non-operating Temperature - Fahrenheit</b>	29° ~ 140°F
	<b>Operating Humidity</b>	20% - 80% (non-condensing)
	<b>Non-operating Humidity</b>	5% - 95%
	<b>Operating Altitude</b>	0 - 5,000 m (16,400 ft.)
	<b>Non-operating Altitude</b>	0 - 12.192 m (40,000 ft.)
<b>Environmental Features and Certifications</b>	<b>Mercury-free LED display backlighting</b>	Yes, Mercury-free LED backlighting
	<b>Arsenic-Free Display Glass</b>	Yes
	<b>Low Halogen</b>	Yes GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR, PVC)
		NOTE: External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
	<b>Agency Approvals and Certifications</b>	WW application CE,CB,KC/KCC/ICE/TUV-S/ISO 9241-307/ EAC/UL/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Energy Star/ISC/VCCI/FCC/BSMI/WEEE/GS/Low Blue Light/BIS
	<b>Microsoft WHQL Certification</b>	Win 10, Win 8, Win 7
	<b>ENERGY STAR® Qualified</b>	Yes, ENERGY STAR® 7
	<b>EPEAT® 2019</b>	EPEAT® Silver
		Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <a href="http://www.epeat.net">http://www.epeat.net</a> for more information.
	<b>China Energy Label</b>	CEL Grade 1
	<b>TCO Certified Edge</b>	Yes
	<b>TCO Certified</b>	Yes
	<b>SmartWay Transport Partnership - NA only</b>	Yes (NA SKU)
<b>Contains Recycled Plastics</b>	<b>Contains Recycled Plastics in Back Cover</b>	0.85
	<b>Contains Recycled Plastics in Base/Stand</b>	0.85
	<b>Contains Recycled Plastics in Other Parts</b>	Yes
	<b>Recyclable Plastics</b>	WAM ABS GA85
	<b>Recyclable Packaging (Box, packing materials)</b>	100% recyclable fiber packaging

1. All specifications represent the typical specifications provided by HP's component manufacturers, actual performance may vary either higher or lower.

Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

### Technical Specifications

External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

\*DisplayPort 1.2 or HDMI 1.4 required to drive panel at its native resolution

		<b>Metric</b>	<b>Imperial</b>
<b>Unit Product/Package Specifications</b>	<b>Product Dimensions</b> (Unpacked with stand) (W x D x H)	71.4x24.04x43.94 cm 71.4x24.04x58.94 cm	28.1x9.46x17.3 in 28.1x9.46x23.2 in
	<b>Product Dimensions</b> (Packed) (W x D x H)	82.8 x 52.8 x 22.8 cm	32.60 x 20.79 x 8.98 in
	<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	71.4 x 4.75 x 41.94 cm	28.1 x 1.87 x 16.51 in
	<b>Product Weight</b> (Unpacked with stand) (W x D x H)	10.3 kg	22.71 lb
	<b>Product Weight</b> (Packed) (W x D x H)	16.1 kg	35.5 lb
	<b>Product Weight</b> (Head only) (W x D x H)	6.28 kg	13.85 lb
	<b>Base Area Footprint</b>	300.23 x 240.43 mm	11.81 x 9.46 in
	<b>Bezel Measurements</b>	Bottom 16.4 mm	Bottom 0.646 in
<b>Pallet Information</b>	<b>Pallet Dimensions</b> (W x D x H)	1150 x 840 x 2241mm	45.28 x 33.07 x 88.23 in
	<b>Pallet Weight</b> (W x D x H)	343 kg	755.5 lbs
	<b>Pallet Layers</b>	4	
	<b>Pallet Product per Layer</b>	5	
	<b>Total Products per Pallet</b>	20	
	<b>Container Load, 20-Foot</b>	280 units	
	<b>Container Load, 40-Foot</b>	560 units	
	<b>Container Load, 40-Foot HighQ</b>	560 units	
<b>Recommended Accessories*</b>	<b>Description</b>	<b>Part Number</b>	
	HP B300 PC Mounting Bracket	2DW53AA	
	HP S101 Speaker Bar	5UU40AA	
	HP Quick Release Bracket	EM870AA	
	HP Single Monitor Arm	BT861AA	
	HP Business PC Security Lock v3 Kit	3XJ17AA	
	*Sold separately and availability may vary by country		
<b>Software included</b>	HP Display Assistant		
<b>What's in the box?</b>	AC power cord (1.9m) 6.2 ft USB B-to-A data cable (1.8m) USB C-to-C data cable (1.8m) DP Cable (1.8m) HDMI Cable (1.8m)		
<b>Other</b>	<b>User Guide Languages</b>	English, S. Chinese, T. Chinese, Bahasa Indonesia, Japanese, Korean, French, Spanish, B. Portuguese, Danish, Dutch, Russian, Slovak, Turkish, Arabic, Lithuanian, Romanian, Finnish, German, Hebrew, Italian, Norwegian, Swedish, Czech, Greek, Hungarian, Polish, Portuguese, Iberian, Kazakh, Slovenian, Ukrainian, Bulgarian, Latvian	

### Technical Specifications

#### Warranty Languages

English, S. Chinese, T. Chinese, Bahasa Indonesia, Japanese, Korean, French, Spanish, B. Portuguese, Danish, Dutch, Russian, Slovak, Turkish, Arabic, Lithuanian, Romanian, Finnish, German, Hebrew, Italian, Norwegian, Swedish, Czech, Greek, Hungarian, Polish, Portuguese, Iberian, Kazakh, Slovenian, Ukrainian, Bulgarian, Latvian

Dynamic Contrast Ratios\* during video playback only, depending on series of frames or time duration.  
All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<b>Environmental Data</b>	<b>Eco-Label Certifications &amp; declarations</b>	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: <ul style="list-style-type: none"> <li>IT ECO declaration</li> <li>US ENERGY STAR®</li> <li>TCO or TCO Certified Edge</li> <li>EPEAT® Silver registered in the United States. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <a href="http://www.epeat.net">http://www.epeat.net</a> for more information.</li> </ul>		
	<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
	Normal Operation	24.81 W	24.83 W	24.95 W
	Sleep	1.12 W	1.12 W	1.12 W
	Off	0.10 W	0.12 W	0.10 W
	<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
	Normal Operation	84.9 BTU/hr	84.9 BTU/hr	84.3 BTU/hr
	Sleep	3.8 BTU/hr	3.8 BTU/hr	3.8 BTU/hr
	Off	0.3 BTU/hr	0.4 BTU/hr	0.3 BTU/hr
		*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
	<b>Additional Information</b>	<ul style="list-style-type: none"> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.</li> <li>This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.</li> <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 1680.1 (EPEAT) standard at the Silver level, see <a href="http://www.epeat.net">www.epeat.net</a></li> <li>Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.</li> <li>This product contains 83.1% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1.</li> <li>This product is 98.6% recycle-able when properly disposed of at end of life.</li> </ul>		
	<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	922 g
		<b>Internal:</b>	PLASTIC/EPS (Expanded Polystyrene)	35 g



### Technical Specifications

			PLASTIC/Polyethylene low density	522 g
			Wood	12000 g
	<b>RoHS Compliance</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a>.</p>		
	<b>Material Usage</b>	<p>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 <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html">http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html</a>):</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Certain Azo Colorants</li> <li>• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li> <li>• Cadmium</li> <li>• Chlorinated Hydrocarbons</li> <li>• Chlorinated Paraffins</li> <li>• Bis(2-Ethylhexyl) phthalate (DEHP)</li> <li>• Benzyl butyl phthalate (BBP)</li> <li>• Dibutyl phthalate (DBP)</li> <li>• Diisobutyl phthalate (DIBP)</li> <li>• Formaldehyde</li> <li>• Halogenated Diphenyl Methanes</li> <li>• Lead carbonates and sulfates</li> <li>• Lead and Lead compounds</li> <li>• Mercuric Oxide Batteries</li> <li>• Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>• Ozone Depleting Substances</li> <li>• Polybrominated Biphenyls (PBBs)</li> <li>• Polybrominated Biphenyl Ethers (PBBEs)</li> <li>• Polybrominated Biphenyl Oxides (PBBOs)</li> <li>• Polychlorinated Biphenyl (PCB)</li> <li>• Polychlorinated Terphenyls (PCT)</li> <li>• Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> </ul>		



### Technical Specifications

		<ul style="list-style-type: none"> <li>• Radioactive Substances</li> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
	<b>Packaging</b>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> <li>• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>• Design packaging materials for ease of disassembly.</li> <li>• Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>• Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>• Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>
	<b>End-of-life Management and Recycling</b>	<p>Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p> <p>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: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a>. 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.</p>
	<b>HP, Inc. Corporate Environmental Information</b>	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report  <a href="http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html">http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</a></p> <p>Eco-label certifications  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html">http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html</a></p> <p>ISO 14001 certificates:  <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a>          and  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>

### *Technical Specifications*

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### Technical Specifications

<b>Change Log</b>			
June 14, 2019	V1 to V2	Added	Environmental Section