

## Technical Specifications

**HP Engage 16t FHD Monitor**  
**HP Engage 16t MSR FHD Monitor**



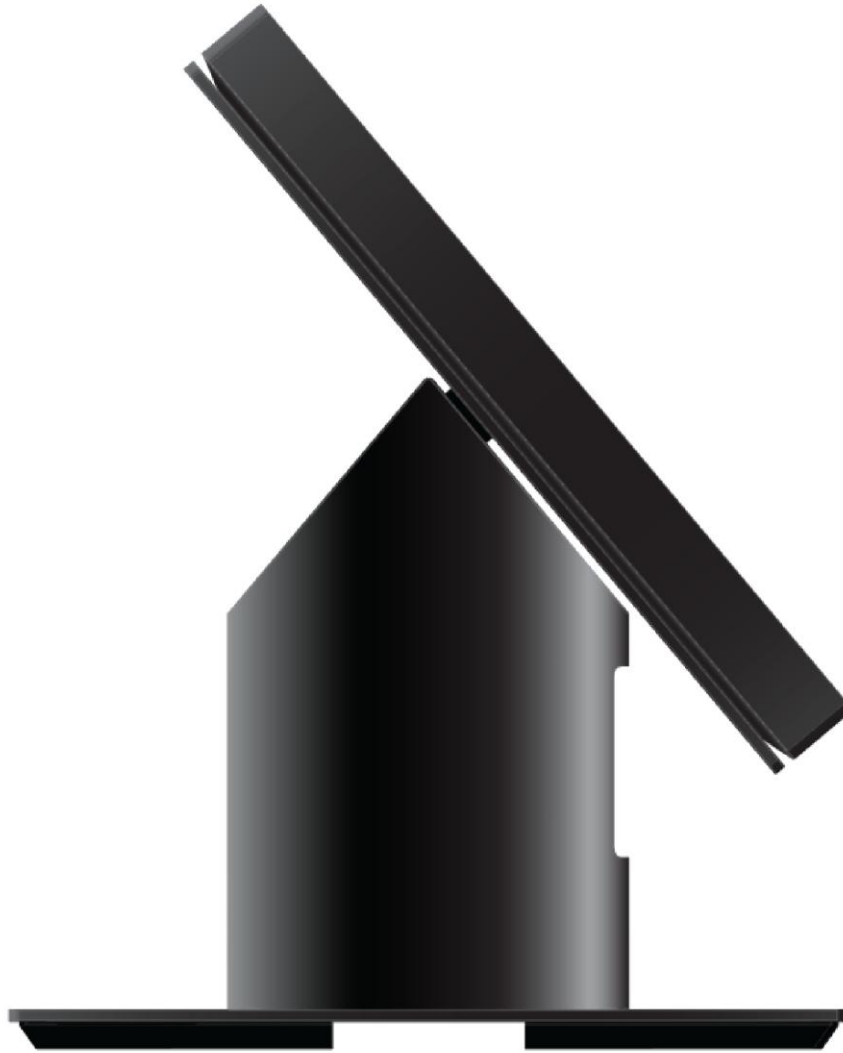
- 1. Power Button
- 2. OSD Buttons

**Front**

- 3. MSR LED (HP Engage 16t FHD MSR Monitor Only)

## *Technical Specifications*

**HP Engage 16t FHD Monitor**  
**HP Engage 16t MSR FHD Monitor**



**Side**

## Technical Specifications

Models: 2D9X0AA; 2D9Z4AA

|  |  |  |
|--|--|--|
| <b>Panel Specifications</b>  | <b>Display Size (Diagonal)</b>                                     | 15.6"  |
|  | <b>Panel Technology</b>  | AHVA   |
|  | <b>Max Refresh Rate</b>  | 60 Hz  |
|  | <b>Native Resolution</b>   | 1920 x 1080  |
|  | <b>Panel Bit Depth</b>   | 8 bit  |
|  | <b>Aspect Ratio</b>  | 16:9   |
|  | <b>Brightness (Typical)</b>  | 400 nits   |
|  | <b>Contrast Ratio (Static)</b>                                     | 800:1  |
|  | <b>Pixel Pitch</b>   | 0.17925mm  |
|  | <b>Pixels Per Inch (PPI)</b>                                       | 141 PPI  |
|  | <b>Backlight Lamp Life Minimum (To Half Brightness - In Hours)</b> | 50,000   |
|  | <b>Backlight Type</b>  | Edge-lit   |
|  | <b>Screen Treatment</b>  | Anti-glare   |
|  | <b>Hardness</b>  | 7H   |
|  | <b>Response Time (Typical)</b>                                     | 25ms on/off  |
|  | <b>Horizontal Viewing Angle (Typical CR&gt;10)</b>                 | 178°   |
|  | <b>Vertical Viewing Angle (Typical CR&gt;10)</b>                   | 178°   |
|  | <b>Panel Active Area Metric (W X H)</b>                            | 34.42 x 19.36  |
|  | <b>Panel Active Area Imperial (W X H)</b>                          | 13.55 x 7.62   |
| <b>NOTE:</b> Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. |  |  |
| <b>Color Gamut Coverage</b>  | <b>NTSC</b>  | 45%  |
| <b>Color Management</b>  | <b>Color Space/ Subsampling Support</b>                            | RGB 4:4:4  |
|  | <b>Rgb Channel Adjust</b>  | Yes, Gain  |
|  | <b>Default Color Temperature</b>                                   | Neutral (6500K)  |
| <b>Monitor Specifications</b>  | <b>Bezel Type</b>  | 3-sided Micro Edge   |
|  | <b>Color Of Stand</b>  | Black  |
|  | <b>Color Of Head</b>   | Black  |
|  | <b>Tilt</b>  | 15° to 40°   |
|  | <b>VESA Mounting</b>   | 100 mm x 100 mm  |
|  | <b>Detachable Stand</b>  | Yes  |
|  | <b>Low Blue Light</b>  | Yes (TÜV certified)  |
| <b>Multimedia</b>  | <b>Webcam</b>  | 5M resolution (2592 x 1944), IR, RGB   |
|  | <b>Microphone</b>  | Yes  |
|  | <b>Speaker Output Power</b>  | 2 x 1.5W   |
|  | <b>Display Software</b>  | HP Display Center  |
|  | <b>On Screen Display (OSD)</b>                                     | <b>Native Resolution</b>   |
| <b>Maximum Resolution</b>  |  | *Apply to high resolution and/or high frame rate displays only. CONFIRM WITH EPM whether disclaimer applies.<br>1920x1080@60Hz |
| <b>Preset Graphic Modes/Supported Resolutions</b>  |  | 640 x 480 @ 60Hz   |
|  |  | 720 x 400 @ 70Hz   |
|  |  | 800 x 600 @ 60 Hz  |
|  | 1024 x 768 @ 60 Hz   |  |
|  | 1280 x 720 @ 60 Hz   |  |

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|  |  | 1280 x 800 @ 60Hz  |
|  |  | 1280 x 1024 @ 60 Hz  |
|  |  | 1366 x 768 @ 60 Hz   |
|  |  | 1440 x 900 @ 60 Hz   |
|  |  | 1600 x 900 @ 60 Hz   |
|  |  | 1600 x 1200 @ 60 Hz  |
|  |  | 1680 x 1050 @ 60 Hz  |
|  |  | 1920 x 1080 @ 60 Hz  |
|  | <b>Minimum Vertical Scan Rate</b>                                | 50 Hz  |
|  | <b>Maximum Vertical Scan Rate</b>                                | 76 Hz  |
|  | <b>Minimum Horizontal Scan Rate</b>                              | 30.0 kHz   |
|  | <b>Maximum Horizontal Scan Rate</b>                              | 80.0 kHz   |
|  | <b>Maximum Pixel Clock</b>                                       | 170.0 MHz  |
|  | <b>Audio</b>   | Built-in speakers  |
|  | <b>Languages</b>   | 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese) |
| <b>Connector Types</b>                     | <b>DisplayPort™</b>  | 1 DisplayPort™ 1.2   |
|  | <b>HDCP</b>  | Yes, USB-C® Alt mode DP  |
|  | <b>USB-C® Video Input</b>  | 1 USB-C® (DisplayPort™ 1.2, power delivery up to 65W)  |
|  | <b>AUDIO PORT</b>  | 1 Headphone Out Combo Jack   |
| <b>Special Features</b>                    | <b>SWITCH</b>  | Menu, Minus, (" -"), Plus ('+'), Exit, Power   |
|  | <b>User Presets</b>  | 10   |
|  | <b>User Updateable Firmware</b>                                  | Yes  |
|  | <b>Integrated NFC</b>  | Yes  |
| <b>Power &amp; Operating Specs</b>         | <b>Power Supply</b>  | External   |
|  | <b>Power Source</b>  | 100 – 240 VAC 50/60 Hz   |
|  | <b>Power Consumption- Max</b>                                    | 65W  |
|  | <b>Energy Saving/Stand By Mode</b>                               | 0.5W   |
|  | <b>Power Consumption- Typical</b>                                | 20W  |
| <b>ENERGY STAR DATA</b>                    | <b>Operational Mode at 100 VAC</b>                               | 8.6W   |
|  | <b>Operational Mode at 115 VAC</b>                               | 8.6W   |
|  | <b>Operational Mode at 230 VAC</b>                               | 8.8W   |
| <b>EU ENERGY EFFICIENCY CLASS (EC1062)</b> | <b>On-mode Power Consumption (EC 1062/2010) - (EC 2019/2013)</b> | 10W  |
|  | <b>Annual Power Consumption (EC 1062/2010) - (EC 2019/2013)</b>  | 10KWh  |
|  | <b>Energy Efficiency Class (EC 1062/2010) - (EC 2019/2013)</b>   | E  |
| <b>Operating Conditions</b>                | <b>Operating Temperature - Celsius</b>                           | 5° – 35°   |
|  | <b>Operating Temperature - Fahrenheit</b>                        | 41° – 95°  |
|  | <b>Non-operating Temperature - Celsius</b>                       | -20° – 60°   |
|  | <b>Non-operating Temperature - Fahrenheit</b>                    | -4° – 140°   |
|  | <b>Operating Humidity</b>  | 20 – 80%   |
|  | <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.)  |

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|  |  |  |  |                      |
|--|--|--|--|----------------------|
| <b>Environmental Features and Certifications</b> | <b>Mercury-free LED display backlighting</b>                           | Yes  |  |                      |
|  | <b>Arsenic-Free Display Glass</b>                                      | Yes  |  |                      |
|  | <b>Low Halogen</b>   | Yes  |  |                      |
|  | <b>Agency Approvals and Certifications</b>                             | CE, CB, KC/KCC/NOM/ICE/TUV-S/ISO 9241-307/<br>EAC/UL/CSA/CCC/CEL/CECP/Energy<br>Star/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New<br>Zealand MEPS/WEEE  |  |                      |
|  | <b>Microsoft WHQL Certification</b>                                    | Win10  |  |                      |
|  | <b>ENERGY STAR® Certified</b>  | Yes  |  |                      |
|  | <b>EPEAT® Registered</b>   | Yes*   |  |                      |
|  | <b>China Energy Label</b>  | *Based on US EPEAT® registration according to IEEE<br>1680.1-2018 EPEAT®. Status varies by country. Visit<br><a href="http://www.epeat.net">http://www.epeat.net</a> for more information<br>CEL Grade 2 |  |                      |
| <b>Recycled Plastics</b>                         | <b>Contains Recycled Plastics</b>                                      | ABS 85%  |  |                      |
|  | <b>Recyclable Packaging (Box, packing materials)</b>                   | EPE Cushion 90%  |  |                      |
| <b>Unit Product/Package Specifications</b>       | <b>Product Dimensions</b><br>(Unpacked with stand) (W x D x H)         | <b>Metric</b><br>39.14 x 26.93 x 22 cm   | <b>Imperial</b><br>15.4 x 10.6 x 8.66 in         |                      |
|  | <b>Product Dimensions</b><br>(Packed) (W x D x H)                      | 47.6 x 32.6 x 39.6 cm  | 18.74 x 12.83 x 15.59 in                         |                      |
|  | <b>Display Head Dimensions</b><br>(Unpacked without stand) (W x D x H) | 39.14 x 24.08 x 2.72 cm  | 15.4 x 9.48 x 1.07 in                            |                      |
|  | <b>Base Area Footprint</b><br>(w x d mm)                               | 305 x 220 mm   | 12 x 8.66 in                                     |                      |
|  | <b>Bezel Measurements</b>  | Top: 22 mm<br>Side: 22 mm<br>Bottom: 22 mm   | Top: 0.86 in<br>Side: 0.86 in<br>Bottom: 0.86 in |                      |
|  | <b>Product Weight</b><br>(Unpacked with stand)                         | 4.28 kg  | 9.43 lb  |                      |
|  | <b>Product Weight</b><br>(Packed)                                      | 6.78 kg  | 14.95 lb   |                      |
|  | <b>Product Weight</b><br>(Head Only)                                   | 2.45 kg  | 5.4 lb   |                      |
|  | <b>Pallet Information</b>  | <b>Pallet Dimensions</b><br>(L x W x H)  | 1200 x 1000 x 118 mm                             | 47.2 x 39.4 x 4.6 in |
|  |  | <b>Pallet Total Weight</b>   | 260 kg   | 573.2 lbs            |
| <b>Pallet Layers</b>                             |  | 5  |  |                      |
| <b>Pallet Product per Layer</b>                  |  | 7  |  |                      |
| <b>Total Products per Pallet</b>                 |  | 35   |  |                      |
| <b>Container Load, 20-Foot</b>                   |  | 350 units  |  |                      |
| <b>Container Load, 40-Foot</b>                   | 735 units  |  |  |                      |
| <b>Container Load, 40-Foot HighQ</b>             | 882 units  |  |  |                      |
| <b>What's in the box?</b>                        | <b>HP Engage 16t FHD Monitor<br/>(2D9X0AA/8Q3N2AA ***)</b>             | HP Engage 16t FHD Monitor<br>DisplayPort cable (1.8 m/6 ft)<br>USB-C to USB-C cable (1.8m/6 ft)<br>USB-C to USB-A cable (1.8m/6 ft)<br>Power Adapter<br>Documentation                                    |  |                      |
|  | <b>HP Engage 16t MSR FHD Monitor<br/>(2D9Z4AA/8Q3W5AA ***)</b>         | HP Engage 16t MSR FHD Monitor<br>DisplayPort cable (1.8 m/6 ft)  |  |                      |

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USB-C to USB-C cable (1.8m/6 ft)  
USB-C to USB-A cable (1.8m/6 ft)  
Power Adapter  
Documentation

|                                  |   |
|----------------------------------|---|
| <b>Compatible Systems</b>        | <p>*** If attaching to Engage Flex Pro G2 or Engage Flex Pro C G2, please order part number 8Q3N2AA or 8Q3W5AA</p> <p>Engage 16t MSR FHD Monitor (2D9Z4AA/8Q3W5AA) is not compatible with Engage One Pro, Engage One Pro G2, or Engage One G2 systems with MSR. For HP Engage host systems with MSR, Engage 16t FHD Monitor without MSR (2D9X0AA/8Q3N2AA) must be used instead.</p>   |
| <b>Compatible Accessories</b>    | <p>4A2F9AA – HP Engage 16t Column Stand</p> <p>4A2G0AA – HP Engage 16t VESA Plate</p>   |
| <b>Service and Support</b>       | <p>Three (3) year limited warranty with advance exchange.</p>   |
| <b>Key Features and Benefits</b> | <p>Deliver superb visibility and lasting value with 400 nits of brightness and a LED half life of <math>\geq 50,000</math> hours.</p> <p>Plug your HP Engage 16t/16t MSR either into an Engage platform or local outlet to power through transactions.</p> <p>Rest easy with a durable display that undergoes Military Standard testing (MIL-STD)<sup>1</sup>, resists dust and liquid intrusion (IP44 rated)<sup>2</sup>.</p> <p>1. Military Standard testing (MIL-STD-810H) is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.</p> <p>2. IP44 disclaimer: Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.</p> <p>Built with sustainability in mind with ocean-bound and recycled plastics, ENERGY STAR<sup>®</sup> 8.0 certification, and recycle-friendly metals.<sup>3</sup></p> <p>3. 5% ocean bound plastics in speaker enclosure. 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fiber. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from &gt;90% recycled plastic. Excludes plastic bags and plastic foam sheeting.</p> <p>Adapt to an ever-shifting marketplace with touch functionality featuring water drop recognition</p> |

## Technical Specifications

### Environmental Data

|                                  |  |   |                     |                     |
|----------------------------------|--|---|---------------------|---------------------|
| <b>HP Engage 16t FHD Monitor</b> | <b>Eco-Label Certifications &amp; declarations</b>   | <p>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:</p> <ul style="list-style-type: none"> <li>IT ECO declaration</li> <li>US ENERGY STAR®</li> <li>TCO EDGE</li> <li>EPEAT® Gold with Climate+ registered configurations available. See <a href="http://www.epeat.net">http://www.epeat.net</a> for registration status and tier levels by country.*</li> </ul> <p>*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</p> <ul style="list-style-type: none"> <li>US Federal Energy Management Program (FEMP)</li> </ul> |                     |                     |
|                                  | <b>Sustainable Impact Specifications</b>   | <ul style="list-style-type: none"> <li>85 % post-consumer recycled plastic<sup>1</sup></li> <li>Low halogen<sup>2</sup></li> <li>Outside Box and corrugated cushions are 100% sustainably sourced and recyclable<sup>3</sup></li> </ul> <p>1. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</p> <p>2. External power supplies, WWAN modules, power cords, cables and peripherals are not low halogen.</p> <p>3. 100% outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from &gt;90% recycled plastic.</p>   |                     |                     |
|                                  | <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   | 8.60 W  | 8.80 W              | 8.60 W              |
|                                  | Sleep  | 0.22 W  | 0.26 W              | 0.22 W              |
|                                  | Off  | 0.13 W  | 0.17 W              | 0.13 W              |
|                                  | <b>Heat Dissipation*</b>   | <b>115VAC, 60Hz</b>   | <b>230VAC, 50Hz</b> | <b>100VAC, 50Hz</b> |
|                                  | Normal Operation   | 29 BUT/hr   | 30 BUT/hr           | 29 BUT/hr           |
|                                  | Sleep  | 1 BUT/hr  | 1 BUT/hr            | 1 BUT/hr            |
|                                  | Off  | 0.5 BUT/hr  | 0.6 BUT/hr          | 0.5 BUT/hr          |
|                                  | <p><b>*NOTE:</b> Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p>  |   |                     |                     |
| <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 (EPEAT) standard at the Gold level, see <a href="http://www.epeat.net">http://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 is 96.4% recycle-able when properly disposed of at end of life.</li> </ul> |   |                     |                     |

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|--|----------------------------|--|-------------------------------------|-------|
|  | <b>Packaging Materials</b> | <b>External:</b>   | PAPER/Paper                         | 722 g |
|  |                            |  | PAPER/Corrugated                    | 396 g |
|  |                            |  | PLASTIC/Polyethylene Expanded - EPE | 74 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> <li>• Radioactive Substances</li> </ul> |                                     |       |

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|  | <p><b>Packaging</b></p>                                    | <ul style="list-style-type: none"> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul> <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> |
|  | <p><b>End-of-life Management and Recycling</b></p>         | <p>HP Inc. 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 HP 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>  |
|  | <p><b>HP, Inc. Corporate Environmental Information</b></p> | <p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report<br/> <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<br/> <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:<br/> <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a><br/>         and<br/> <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>   |

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|                                      | <b>Sustainable Impact Specifications</b>   | <ul style="list-style-type: none"> <li>85 % post-consumer recycled plastic<sup>1</sup></li> <li>Low halogen<sup>2</sup></li> <li>Outside Box and corrugated cushions are 100% sustainably sourced and recyclable<sup>3</sup></li> </ul> <p>1. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</p> <p>2. External power supplies, WWAN modules, power cords, cables and peripherals are not low halogen.</p> <p>3. 100% outer box packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Any plastic cushions are made from &gt;90% recycled plastic.</p>   |                     |                     |
|                                      | <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   | 8.60 W  | 8.80 W              | 8.60 W              |
|                                      | Sleep  | 0.22 W  | 0.26 W              | 0.22 W              |
|                                      | Off  | 0.13 W  | 0.17 W              | 0.13 W              |
|                                      | <b>Heat Dissipation*</b>   | <b>115VAC, 60Hz</b>   | <b>230VAC, 50Hz</b> | <b>100VAC, 50Hz</b> |
|                                      | Normal Operation   | 29 BUT/hr   | 30 BUT/hr           | 29 BUT/hr           |
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|                                      | Off  | 0.5 BUT/hr  | 0.6 BUT/hr          | 0.5 BUT/hr          |
|                                      | <p><b>*NOTE:</b> Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p>  |   |                     |                     |
| <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 (EPEAT) standard at the Gold level, see <a href="http://www.epeat.net">http://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 is 96.7% recycle-able when properly disposed of at end of life.</li> </ul> |   |                     |                     |
| <b>Packaging Materials</b>           | <b>External:</b>   | PAPER/Paper   | 944 g               |                     |
|                                      |  | PAPER/Corrugated  | 774 g               |                     |

## Technical Specifications

|  |                        |  |       |
|--|------------------------|--|-------|
|  |                        | PLASTIC/Polyethylene Expanded - EPE  | 220 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> <li>• Radioactive Substances</li> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul> |       |

## Technical Specifications

|  |  |   |
|--|--|---|
|  | <p><b>Packaging</b></p>                                    | <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>   |
|  | <p><b>End-of-life Management and Recycling</b></p>         | <p>HP Inc. 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 HP 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> |
|  | <p><b>HP, Inc. Corporate Environmental Information</b></p> | <p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report<br/> <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<br/> <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:<br/> <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a><br/>         and<br/> <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>    |

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## Summary

| <b>Change Log</b> |            |         |  |
|-------------------|------------|---------|--|
| August 10, 2021   | V1 to V2   | Added   | Cable length in What's in the box? Section             |
| October 12, 2021  | V2 to V3   | Updated | VESA Mounting in Monitor Specifications                |
| November 9, 2021  | V3 to V4   | Added   | Service and Support, Key Features and Benefits section |
| November 18, 2021 | V4 to V5   | Added   | Integrated NFC in Special Features section             |
| December 10, 2021 | V5 to V6   | Updated | What's in the box? Section                             |
| January 18, 2022  | V6 to V7   | Updated | Webcam specs   |
| November 23, 2023 | V7 to V8   | Updated | What's in the box? Section                             |
| January 25, 2024  | V8 to V9   | Updated | Environmental Data section                             |
| May 31, 2024      | V9 to V10  | Update  | Monitor Specifications section update                  |
| March 3, 2026     | V10 to V11 | Update  | Compatible systems section added                       |
|                   |            |         |  |
|                   |            |         |  |