

Technical Specifications

HP P24h G5 FHD Monitor

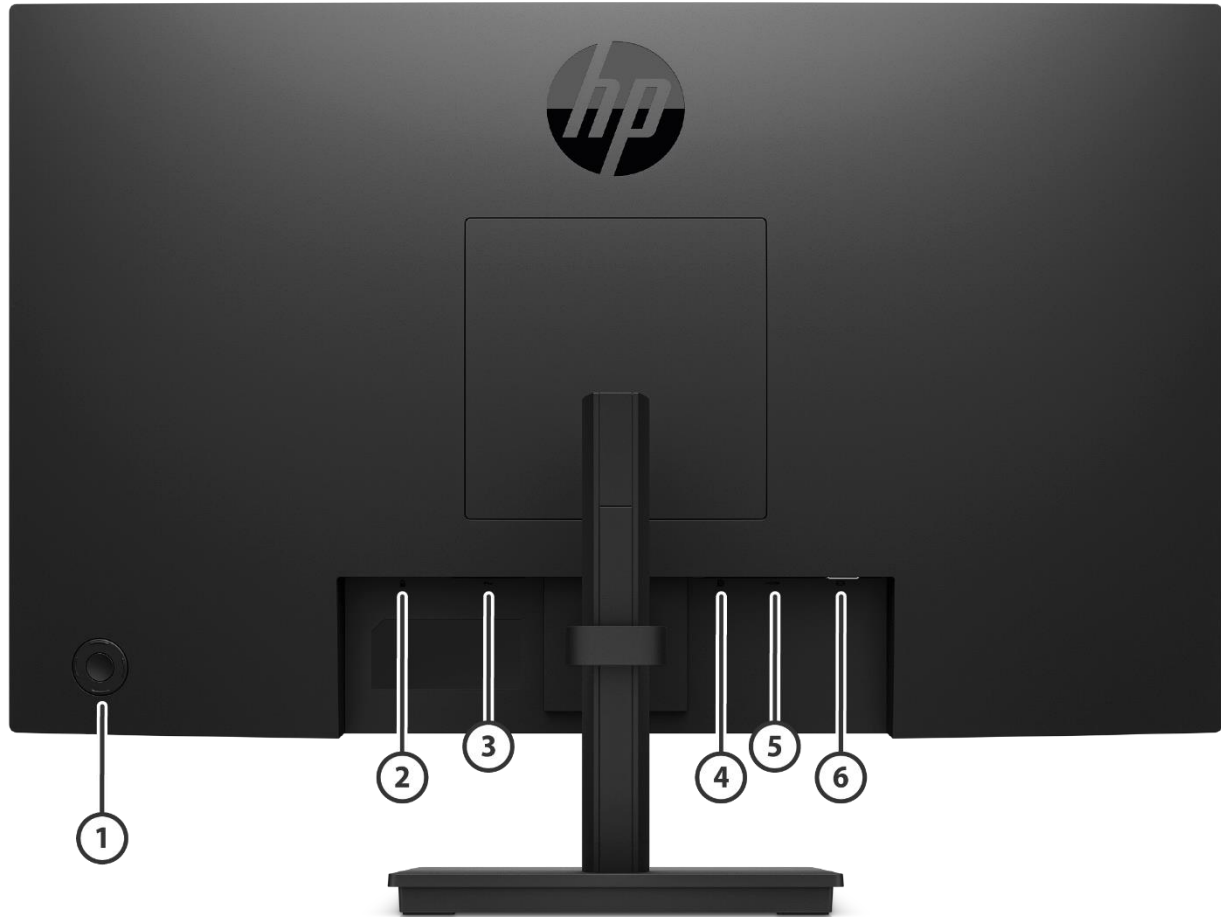


1. Power Button

Front
2. LED Power

Technical Specifications

HP P24h G5 FHD Monitor



1. Joypad OSD button
2. Security Cable Slot
3. Power Connector

Back

4. DisplayPort™ 1.2
5. HDMI 1.4 Port
6. VGA Port

Technical Specifications


Model: 64W34AA

| | | |
|--|--|---|
| Panel Specifications | Display Size (Diagonal) | 23.8 inch |
| | Panel Technology | IPS |
| | | 75 Hz |
| | Max Refresh Rate | NOTE: 75Hz refresh rate can be supported via HDMI and DP cable connection only. 60 Hz refresh rate with VGA. |
| | Native Resolution | FHD (1920 x 1080) |
| | Panel Bit Depth | 8 bit (6 bit + FRC) |
| | Aspect Ratio | 16:9 |
| | Brightness (Typical) | 250nits |
| | Contrast Ratio (Static) | 1000:1 |
| | Dynamic Contrast Ratio | 8M:1 |
| | Flicker Free | Yes |
| | Pixel Pitch | 0.27 mm x 0.27 mm |
| | Pixels Per Inch (PPI) | 93 PPI |
| | Display Colors | Up to 16.7 million colors supported |
| | 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) | 52.70 x 29.65 cm |
| Panel Active Area Imperial (W x H) | 20.75x 11.67 in | |
| NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. | | |
| Color | NTSC | 72% |
| Color Management | Color Space/ Subsampling Support | RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2 |
| | RGB Channel Adjust | Yes, Gain |
| | Default Color Temperature | Standard (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 |
| | Color Of Head | Black |
| | Tilt | -5 to +23° |
| | Height Adjust Range | 100 mm |
| | Vesa Mounting | 100 mm x 100 mm |
| | Security Lock | Standard Security Lock Slot |

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| | Detachable Stand | Yes |
| | Warranty | 3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries) |
| | Low Blue Light | Yes (TÜV certified) |
| | Speaker Output Power | 2 x 2 W |
| | Management Software | HP Display Center, HP Display Manager* *Host PC requires Windows 10. HP Display Center is available on the Microsoft store. |
| On Screen Display (OSD) | On Screen Display | Brightness+, Color, Image, Input, Power, Menu, Management, Information, Exit |
| | Native Resolution | FHD (1920 x 1080) NOTE: DisplayPort 1.2 & HDMI 1.4 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 1920x1080 at 60 Hz with 8-bit color using one HDMI or VGA. |
| | Maximum Resolution | 1920 x 1080 (FHD) |
| | Preset Graphic Modes/Supported Resolutions | 720 x 400 @ 70Hz 640 x 480 @ 60Hz 640 x 480 @ 75Hz (Digital port only) 800 x 600 @ 60Hz 800 x 600 @ 75Hz (Digital port only) 1024 x 768 @ 60Hz 1024 x 768 @ 75Hz (Digital port only) 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1024 @ 75Hz (Digital port only) 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 75 Hz |
| | Minimum Vertical Scan Rate | 48 Hz |
| | Maximum Vertical Scan Rate | 75Hz |
| | Minimum Horizontal Scan Rate | 30 KHz |
| | Maximum Horizontal Scan Rate | 86 KHz |
| | Maximum Pixel Clock | 180.0 MHz |
| | User Programmable Modes | Yes,10 |
| | User-Assignable Function Buttons | Yes, 4 (7 options) |
| | Audio | Built-in speakers 11 (English, French, German, Italian, Dutch, Spanish, Japanese, Portuguese, Russian, Traditional Chinese, and Simplified Chinese) |
| | Languages | |
| Connector Types | DisplayPort™ | 1 DisplayPort™ 1.2 |
| | HDMI | 1 HDMI 1.4 |
| | HDCP | Yes, DisplayPort and HDMI |
| | VGA | 1 VGA |

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| Special Features | SWITCH | Monitor Power button Next Active Input / Up button Brightness / Down button Information / Left button Color / Right button Menu / Enter button 11 (VGA)/ 16 (HDMI and DP) | |
| | User Presets | | |
| Power & Operating Specs | Power Supply | Internal | |
| | Power Source | 100 – 240 VAC 50/60 Hz | |
| | Power Consumption- Max | 28W | |
| | Energy Saving/Stand By Mode | 0.5W | |
| Energy Star Data | Power Consumption - Typical | 18W | |
| | Operational Mode at 100 VAC | 14W | |
| | Operational Mode at 115 VAC | 14W | |
| EU Energy Efficiency Class (ErP LOT-5) | Operational Mode at 230 VAC | 14W | |
| | On-mode Power Consumption for Standard Dynamic Range (SDR) | 15W | |
| | ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR) |  | |
| Operating Conditions | Operating Temperature - Celsius | 5° – 35°C | |
| | Operating Temperature - Fahrenheit | 41° – 95°F | |
| | Non-Operating Temperature - Celsius | -40° – 65°C | |
| | Non-Operating Temperature - Fahrenheit | -40° – 149°F | |
| | Operating Humidity | 20 – 80% Relative Humidity (non-condensing) | |
| | Non-Operating Humidity | 5 – 95% | |
| | Operating Altitude | 0 – 5,000 m (16,400 ft.) | |
| Certifications and Compliances | Non-operating Altitude | 0 – 12,192 m (40,000 ft.) | |
| | Mercury-free LED display backlighting | Yes, Mercury-free LED backlighting | |
| Agency Approvals and Certifications | Low Halogen | Yes* | |
| | Agency Approvals and Certifications | Agency Approvals and Certifications | *External power supplies, WWAN modules, power cords, cables and peripherals excluded. |
| | | Agency Approvals and Certifications | WW application CE/CB/EUP Lot 6 and Lot 26/Erp/RoHS/TUV-Bauart/CTUVus/FCC/ ICES/ CEC/Energy Star/TCO/TCO Edge /China CCC/CEL/CECP/SEPA/Korea KC/Korea KCC/Korea e-Standby/VCCI/PSE/RCM/Australia MEPS/India BIS/Taiwan BSMI/Mexico NOM/Mexico energy/South Africa NRCS LoA and energy/Argentina S-Mark/Singapore PSB/Cambodia ISC/EAC/EAEU RoHS/UAE/UAE RoHS/ ISO 9241-307/Low blue light/ Flicker Free/Vietnam MEPS/Ukraine Energy/ Ukraine CoC Win 11, Win 10, Win 8, Win 7 |
| Microsoft WHQL Certification | | | |

Technical Specifications

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|---|--|
| ENERGY STAR® Certified | Yes |
| EPEAT® Registered | EPEAT® registered* |
| Regions need to verify by country | *Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information. |
| China Energy Label | CEL Grade 2 *Monitors produced from June 2024 comply with China regulation GB 21520-2023. |
| TCO Certified Edge | Yes |
| TCO Certified | Yes |
| SmartWay Transport Partnership - NA only | Yes (NA sku) |

Contains Recycled Plastics

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|--|--|
| Contains Recycled Plastics | 85% ITE-derived closed loop plastic* *Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. |
| Recyclable Packaging (Box, packing materials) | Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable* *100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. |

Unit Product/Package Specifications

| | Metric | Imperial |
|--|--------------------------|-------------------------|
| Product Dimensions (Unpacked with stand) (W x D x H) | 53.89 x 19.64 x 46.92 cm | 21.22 x 7.73 x 18.47 in |
| Product Dimensions (Packed) (W x D x H) | 59.5x12.4x 39.1 cm | 23.43 x 4.88 x 15.39 in |
| Display Head Dimensions (Unpacked without stand) (W x D x H) | 53.89 x 5.15 x 32.36 cm | 21.22 x 2.03 x 12.74 in |
| Base Area Footprint (w x d mm) | 178 x 185 mm | 7.01 x 7.28 in |
| Bezel Measurements (Unpacked with stand) (W x D x H) | Bottom: 20.2 mm | Bottom: 0.8 in |
| Product Weight (Unpacked with stand) | 4.60 kg | 10.14 lb |
| Product Weight (Packed) | 6.74 kg | 14.86 lb |
| Product Weight (Head Only) | 3.38 kg | 7.45 lb |

Pallet Information

| | | |
|--|---|--|
| Pallet Dimensions (L x W x H mm) | Slip Sheet: 1200 x 1000 x 2364 mm (40 ft HQ) | Slip Sheet: 47.24 x 39.37 x 93.07 inch (40 ft HQ) |
| | Pallet: 1200 x 1000 x 2492 mm (40 ft HQ) | Pallet: 47.24 x 39.37 x 97.9 inch (40 ft HQ) |
| | Slip Sheet: | Slip Sheet: |

Technical Specifications

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|--------------------------------------|--|---|
| | 1200 x 1000 x 1967 mm (20 & 40 ft) | 47.03 x 39.37 x 77.3 inch (20 & 40 ft) |
| | Pallet: | Pallet: |
| | 1200 x 1000 x 2092 mm (20 & 40 ft) | 47.24 x 39.37 x 82.22 inch (20 & 40 ft) |
| | Slip Sheet: | Slip Sheet: |
| | 650 kg (40 ft HQ) | 1433.01 lb (40 ft HQ) |
| | Pallet: | Pallet: |
| | 670kg (40 ft HQ) | 1477.1 lb (40 ft HQ) |
| | Slip Sheet: | Slip Sheet: |
| | 545kg (20 & 40 ft) | 1201.52 lb (20 & 40 ft) |
| | Pallet: | Pallet: |
| | 565kg (20 & 40 ft) | 1245.62 lb (20 & 40 ft) |
| | 6 per layer and 6 per layer (slip sheet & pallet) for HC | |
| | 5 per layer and 5 per layer (slip sheet & pallet) for SC | |
| | 16 layers per pallet | |
| | 96 sets and 80 sets (slip sheet & pallet) | |
| | 800 sets and 800 sets (slip sheet and pallet) | |
| | 1680 sets and 1680sets (slip sheet and pallet) | |
| | 2016 sets and 2016 sets (slip sheet and pallet) | |
| Pallet Total Weight | | |
| Pallet Layers | | |
| Pallet Product per Layer | | |
| Total Products per Pallet | | |
| Container Load, 20-Foot | | |
| Container Load, 40-Foot | | |
| Container Load, 40-Foot HighQ | | |

What's in the box?

AC power cord (1.83m) 6 ft
 VGA cable (1.8m) 5.9 ft (Japan Only)
 DP cable (1.8m) 5.9 ft (Japan, EMEA AF SKUs, and NA only)
 HDMI cable (1.8m) 5.9 ft
 Quick Setup Poster
 Doc kit
 Warranty card

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)

Technical Specifications

Technical Specifications

ENVIRONMENTAL DATA

| | | | |
|--|--|---------------------|---------------------|
| Eco-Label Certifications & declarations | <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"> • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT^a Gold 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 | <ul style="list-style-type: none"> • 85% ITE – derived closed loop 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 | <p>The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.</p> | | |
| Energy Consumption (in accordance with US ENERGY STAR® test method) | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 50Hz |
| Normal Operation (Short idle) | 13.25 W | 13.22 W | 13.31 W |
| Normal Operation (Long idle) | 13.25 W | 13.22 W | 13.31 W |
| Sleep | 0.17 W | 0.2 W | 0.18 W |
| Off | 0.13 W | 0.16 W | 0.13 W |
| | <p>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.</p> | | |
| Heat Dissipation* | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 50Hz |
| Normal Operation (Short idle) | 45.3 BTU/hr | 45.2 BTU/hr | 45.5 BTU/hr |
| Normal Operation (Long idle) | 45.3 BTU/hr | 45.2 BTU/hr | 45.5 BTU/hr |
| Sleep | 0.6 BTU/hr | 0.7 BTU/hr | 0.6 BTU/hr |
| Off | 0.4 BTU/hr | 0.5 BTU/hr | 0.4 BTU/hr |
| | <p>*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p> | | |

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| 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 are available throughout the warranty period and or for up to “5” years after the end of production. | | |
| Additional Information | <ul style="list-style-type: none"> • 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 Gold level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product is 96.6% recycle-able when properly disposed of at end of life. | | |
| Packaging Materials | External: | PAPER/Corrugated | 563 g |
| | | PAPER/Molded Pulp | 976 g |
| | Internal: | PLASTIC/EPE (Expanded Polyethylene) | 28 g |
| | | PLASTIC/Polyethylene low density | 2 g |
| | The plastic packaging material contains at least 0.0% recycled content. | | |
| | The corrugated paper packaging materials contains at least 90% recycled content. | | |
| RoHS Compliance | <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 HP RoHS position statement.</p> | | |
| Material Usage | <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 http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):</p> <ul style="list-style-type: none"> • Asbestos • Certain Azo Colorants | | |

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| | <ul style="list-style-type: none"> • 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) |
| <p>Packaging Usage</p> | <p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • 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. |
| <p>End-of-life Management and Recycling</p> | <p>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.</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:</p> |

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| | <p>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.</p> |
| <p>HP, Inc. Corporate Environmental Information</p> | <p>For more information about HP’s commitment to the environment:</p> <p>Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</p> <p>Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html</p> <p>ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</p> |
| <p>footnotes</p> | <ul style="list-style-type: none"> • 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. |

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Summary

Change Log

| Change Log | | | |
|-------------------|----------|---------|---|
| July 28, 2022 | V1 to V2 | Updated | Contains Recycled Plastics |
| February 21, 2023 | V2 to V3 | Updated | Pallet Information |
| March 6, 2023 | V3 to V4 | Added | Mercury-free LED display backlighting |
| April 12, 2023 | V4 to V5 | Updated | Color Management section |
| October 24, 2023 | V5 to V6 | Updated | What's in the box? Section |
| February 1, 2024 | V6 to V7 | Added | Panel Specifications Section |
| April 3, 2024 | V7 to V8 | Added | CEL grade changed to 2 and footnote added |
| | | | |