

Technical Specifications

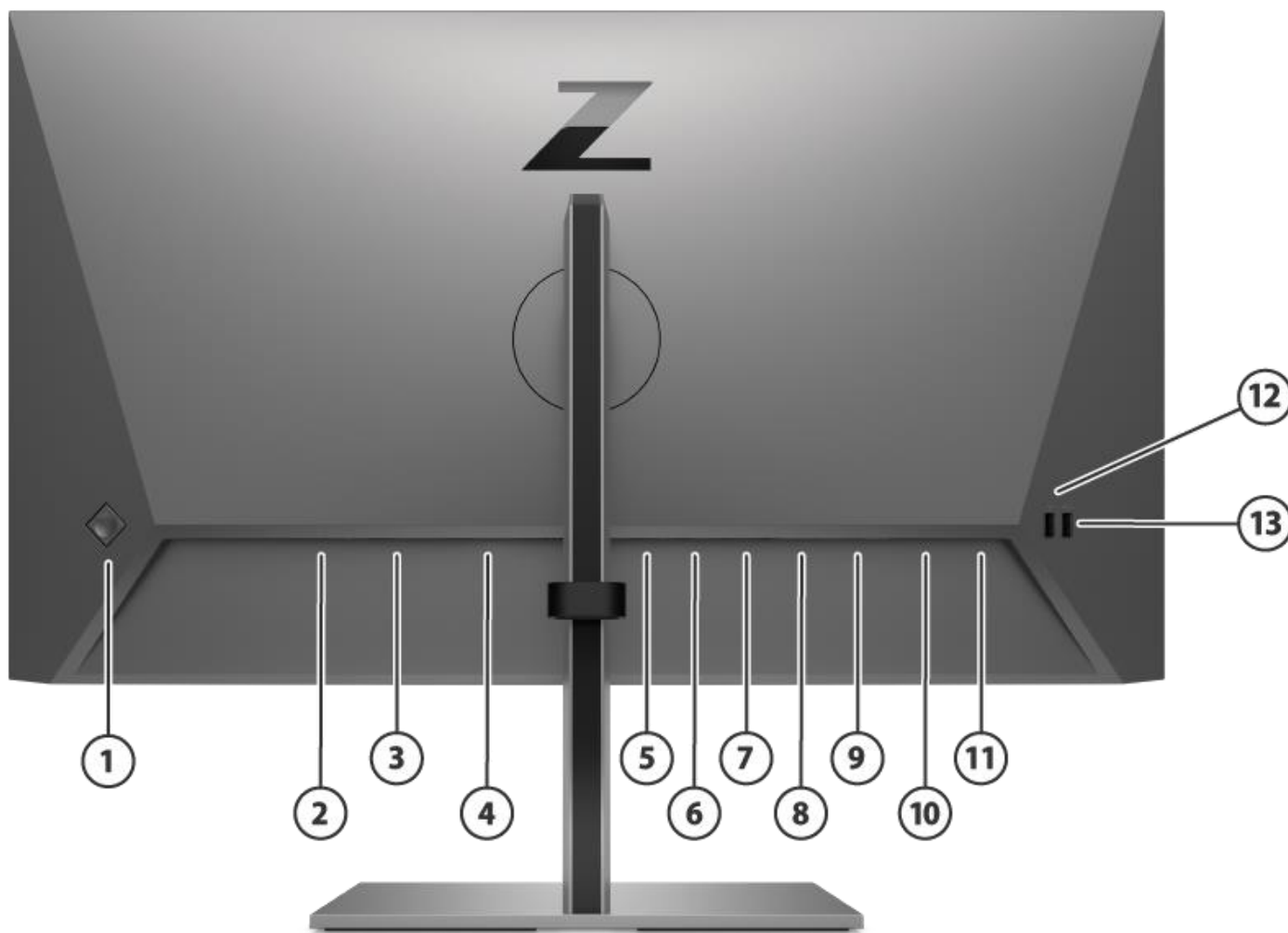


Front

1. Power Button

Technical Specifications

HP Z27k G3 4K USB-C Display



1. OSD control

2. Security cable slot

3. Master power switch

4. Power connector

5. HDMI port

6. DisplayPort connector

7. DisplayPort connector OUT

Back

8. USB Type-C™ port with DP Alt Mode 1.4, USB upstream data, and maximum power delivery up to 100 W

9. RJ-45 (network) jack

10. USB port

11. USB port (Battery charging 1.2, 7.5W)

12. USB port

13. USB port (Battery charging 1.2, 7.5W)

Technical Specifications

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|----------------------------------|--|---|-------------------|
| Panel Specifications | Display Size (Diagonal) | 27" | |
| | Panel Technology | IPS | |
| | Refresh Rate | 60 Hz | |
| | Panel Bit Depth | 10 bit (8 bit + FRC) | |
| | Aspect Ratio | 16:9 | |
| | Brightness (Typical) | 350 nits | |
| | Contrast Ratio (Static) | 1000:1 | |
| | Contrast Ratio Minimum (Static) | 700:1 | |
| | Dynamic Contrast Ratio | 10M:1 | |
| | Flicker Free | Yes | |
| | Pixel Pitch | 0.1554 x 0.1554 mm | |
| | Pixels Per Inch (Ppi) | 163 PPI | |
| | Backlight Lamp Life Minimum (To Half Brightness - In Hours) | 40 k | |
| | 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 (W X H) | 596.736(H) x 335.664(V) | |
| | NOTE: Performance Specifications Represent The Typical Specifications Provided By HP's Component Manufacturers; Actual Performance May Vary Either Higher Or Lower. | | |
| | Color Management | Factory Color Calibrated | Yes (Delta E <=2) |
| Calibrated Color Presets | | sRGB, BT.709, P3 D65 (Production after Jan '21) | |
| RGB Channel Adjust | | Yes, Gain | |
| Default Color Temperature | | sRGB | |
| Color | sRGB | 99 % | |
| | P3 D65 | 85% | |
| Monitor Specifications | Bezel | 4-sided Micro Edge | |
| | Color | (Head) Turbo Silver; (Stand) Turbo Silver | |
| | Tilt | -5 to +20° | |
| | Swivel | ±45° | |
| | Pivot | ±90 | |
| | Height Adjust Range | 150mm | |
| | VESA Mounting | N/A | |
| | Security Lock Ready | Standard Security Lock Slot | |
| | Detachable Stand | Yes | |
| | Warranty (Number Of Years) | 3/3/0 for LA, NA, EMEA, APJ; (3/3/3 in select APJ Countries) | |
| | Low Blue Light Mode | Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified) | |
| | Display Management Software | HP Display Center | |

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| On Screen Display | Brightness +, Color, Image, Input, Power, Menu, Management, Information, Exit |
| User-Assignable Function Buttons | Yes, 4 buttons |
| Native Resolution | 4K UHD (3840 x 2160) |
| Maximum Resolution | 3840 x 2160 @ 60Hz |
| Preset Graphic Modes/Supported Resolutions | 640 x 480 @ 60Hz 800 x 600 @ 60Hz 1024 x 768 @ 60Hz 1280 x 720 @ 60Hz 1280 x 800 @ 60Hz 1280 x 1024 @ 60Hz 1440 x 900 @ 60Hz 1600 x 900 @ 60Hz 1600 x 1200 @ 60Hz 1680 x 1050 @ 60Hz 1920 x 1080 @ 60Hz 1920 x 1200 @ 60Hz 2560 x 1440 @ 60Hz 2560 x 1600 @ 60Hz 3840 x 2160 @ 23Hz 3840 x 2160 @ 24Hz 3840 x 2160 @ 30Hz 3840 x 2160 @ 60Hz |
| High Definition Video Formats | 720 x 480i @ 60Hz 720 x 480p @ 60Hz 1280 x 720p @ 60Hz 1920 x 1080i @ 60Hz 720 x 576i @ 50Hz 720 x 576p @ 50Hz 1280 x 720p @ 50Hz 1920 x 1080i @ 50Hz 1920 x 1080p @ 60Hz 1920 x 1080p @ 50Hz 640 x 480p @ 60Hz |
| Minimum Vertical Scan Rate | 50 Hz |
| Maximum Vertical Scan Rate | 60 Hz |
| Minimum Horizontal Scan Rate | 30.0 kHz |
| Maximum Horizontal Scan Rate | 80.0 kHz |
| Maximum Pixel Clock | 600 MHz |
| User Programmable Modes | 20 |
| Languages | 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese) |
| Connector Types | |
| DisplayPort™ | 1 DisplayPort™ 1.4 |
| DisplayPort™ Out | 1 DisplayPort™ 1.4-out |
| HDMI | 1 HDMI 2.0 |
| USB Type-C™ Video Input | 1 USB Type-C™ (DP Alt Mode 1.4, power delivery up to 100W) |
| USB-A | 4 USB-A 3.2 Gen1 (2 for battery charging 1.2, 7.5W) |

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| | Ethernet | Yes |
| Special Features | Picture-in-Picture, Picture-by-Picture | Yes |
| | DaisyChain/DisplayPort Multi stream Transport (MST) | Yes |
| | User Updateable Firmware | Yes |
| Power & Operating Specs | Power Supply | Internal |
| | Power Source | 100 – 240 VAC 50 / 60 Hz |
| | Power Consumption- MAX | 165 W |
| | Energy Saving/Stand By Mode | 0.5 W |
| | Power Consumption- Typical | 42 W |
| | Power Cable Length | 1.9 m |
| ENERGY STAR Data | Operational Mode at 100 VAC | 28.08 W |
| | Operational Mode at 115 VAC | 28.02 W |
| | Operational Mode at 230 VAC | 27.98 W |
| EU Energy Efficiency Class (ERP Lot-5) | On-mode Power Consumption | 29.1 W |
| | Annual Power Consumption | 43 kWh |
| | Energy Efficiency Class | G |
| Operating Conditions | Operating Temperature - Celsius | 5° – 35°C |
| | Operating Temperature - Fahrenheit | 41° – 95°F |
| | Non-Operatin Temperature - Celsius | –34° – 60°C |
| | Non-Operating Temperature - Fahrenheit | 29° – 140°F |
| | 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.) | |
| Environmental Features and Certifications | Mercury-free LED display backlighting | Yes, Mercury-free LED backlighting |
| | Arsenic-Free Display Glass | Yes |
| | Low Halogen | Yes |
| | Agency Approvals And Certifications | WW application CE,CB,KC/KCC/NOM/PSB/EAC/GS/TUV-S/ISO 9241-307/ Low Blue Light/ BIS/cTUVus/CCC/CEL/CECP/SEPA/Energy Star/TCO/TCO Certified Edge/VCCI/FCC/BSMI/WEEE/UAE/Ukraine/ERP/ISC |
| | Microsoft WHQL Certification | Yes |
| | ENERGY STAR® Certified | Yes |
| | EPEAT® Registered | Yes |
| | Regions need to verify by country | Yes |
| | China Energy Label | CEL Grade 1 |
| | TCO Certified Edge | Yes |

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| | TCO Certified | Yes |
| | SmartWay Transport Partnership - NA only | Yes (NA sku) |
| Contains Recycled Plastics | Contains Recycled Plastics | 86.3% |
| | Recyclable Packaging (Box, packing materials) | 100% recyclable packaging. |
| Unit Product/Package Specifications | Product Dimensions (Unpacked with stand) (W x D x H) | 61.23 x 20.50 x 53.03 cm 24.11 x 8.07 x 20.88 in |
| | Product Dimensions (Packed) (W x D x H) | 69.8 x 42.3 x 16.3 cm 27.48x 16.65 x 6.42 in |
| | Display Head Dimensions (Unpacked without stand) (W x D x H) | 61.23 x 6.35 x 35.61 cm 24.11 x 2.50 x 12.02 in |
| | Base Area Footprint (w x d mm) | 246 x 205 mm 9.69 x 8.07 in |
| | Product Weight (Unpacked with stand) | 6.2 kg 13.7 lb |
| | Product Weight (Packed) | 9.4 kg 20.7 lb |
| | Product Weight (Head Only) | 4.6 kg 10.14 lb |
| What's in the box? | Documentation kit DP1.4 Cable (1.8m) HDMI 2.0 cable (1.8m, Production after May'21) USB 3.2 Gen2 Type C to C (1m) Power cable VESA Adapter Cable Holder | |
| User Guide and Warranty Languages | User Guide Languages | English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish. |
| | Warranty Languages | English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish. |

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| 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[®] Silver registered in the United States. See http://www.epeat.net for registration status in your country. • TCO 8.0/ TCO Certified Edge • 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"> • Ocean-bound plastic in (part(s)) • 82.4% post-consumer recycled plastic • External Power Supply 90% Efficiency • 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 (Sort idle) | 13.83 W | 13.94 W | 13.8 W |
| | Normal Operation (Long idle) | N/A | N/A | N/A |
| | Sleep | 0.33 W | 0.33 W | 0.33 W |
| | Off | 0.31 W | 0.32 W | 0.31 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> | | |

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| Heat Dissipation* | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 50Hz |
|--|---|--|--------------|
| Normal Operation (Short idle) | 43 BTU/hr | 43 BTU/hr | 43 BTU/hr |
| Normal Operation (Long idle) | N/A | N/A | N/A |
| Sleep | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |
| Off | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |
| | *NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. | | |
| Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) | Sound Power (L _{WA} , bels) | Sound Pressure (L _{pAm} , decibels) | |
| Typically Configured – Idle | N/A | N/A | |
| Fixed Disk – Random writes | N/A | N/A | |
| Optical Drive – Sequential reads | N/A | N/A | |
| 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 Silver level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 82.4% recycle-able when properly disposed of at end of life. | | |
| Packaging Materials | External: | PAPER/paper | 1678 g |
| | | PAPER/paper | 676 g |
| | Internal: | PLASTIC/EPE (Expanded Polyethylene) | 7 g |
| | | PLASTIC/EPE (Expanded Polyethylene) | 13 g |
| | | PLASTIC/EPE (Expanded Polyethylene) | 13 |
| | The plastic packaging material contains at least 100% recycled content. | | |
| The corrugated paper packaging materials contains at least 90% recycled content. | | | |

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| | <p>RoHS Compliance</p> | <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> |
| | <p>Material Usage</p> | <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 • 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. |

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| | | <ul style="list-style-type: none"> • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO) |
| | Packaging Usage | <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. |
| | End-of-life Management and Recycling | <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: 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> |
| | HP, Inc. Corporate Environmental Information | <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> |

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| | footnotes | |
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| | | <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 | | | |
|-------------------|----------|--------|----------------------------|
| February 28, 2021 | V1 to V2 | | Energy Efficiency Class |
| April 16, 2021 | V2 to V3 | Update | VESA Mounting Specs |
| May 26, 2021 | V3 to V4 | Add | Environmental Data |
| June 1, 2021 | V4 to V5 | Update | Color Management |
| June 24, 2021 | V5 to V6 | Update | What's in the box? Section |
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