

Technical Specifications

HP Z27xs G3 4K USB-C DreamColor Display



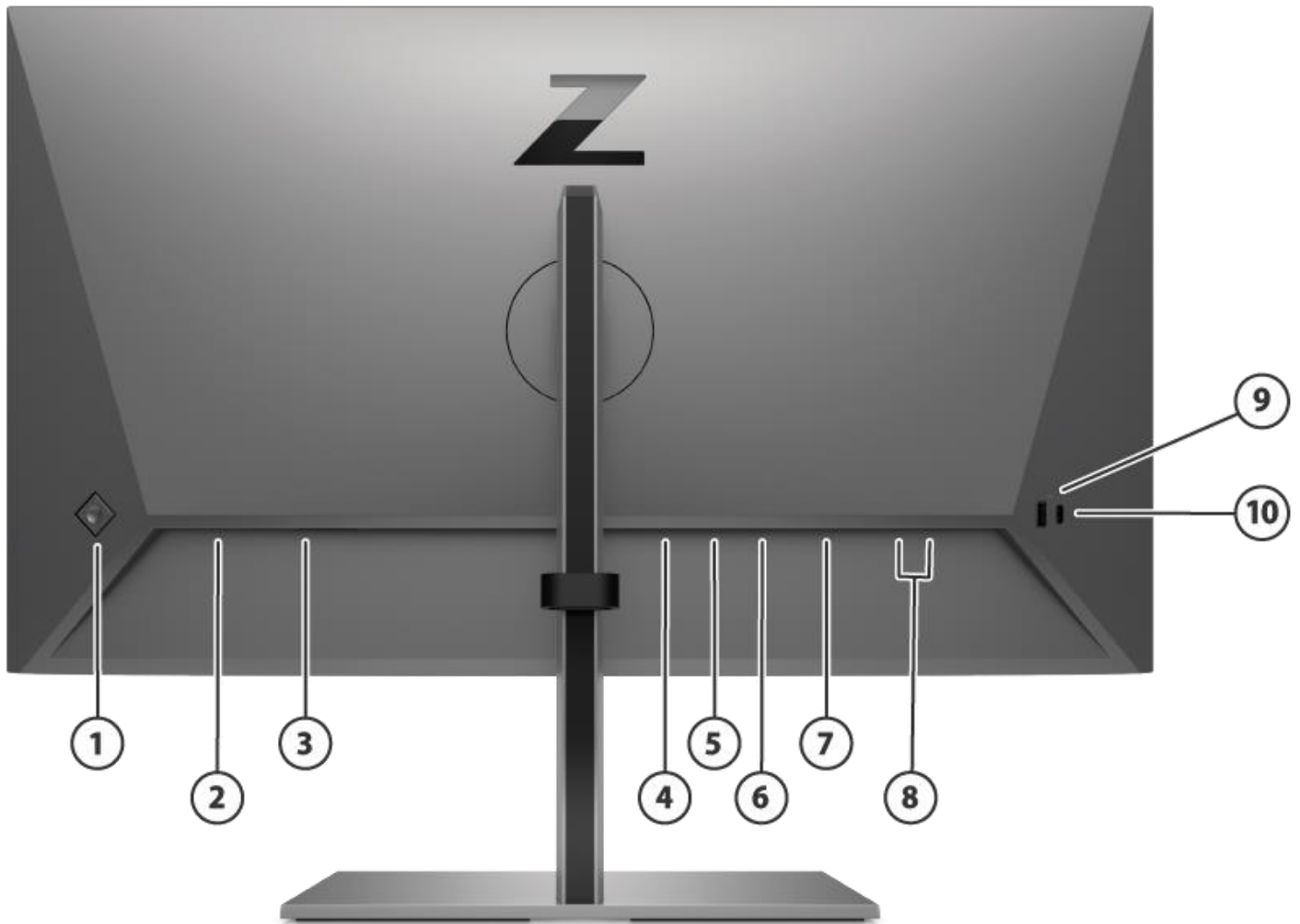
Front

1. Brightness Buttons

2. Power Button

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HP Z27xs G3 4K USB-C DreamColor Display



1. OSD Joypad Control
2. Security Cable Slot
3. Power Connector
4. HDMI Port
5. DisplayPort™

Back

6. DisplayPort™ Out
7. USB Type-C™ Port (DP Alt Mode 1.4, power delivery up to 100W)
8. USB Type-A™ Ports 3.0
9. USB Type-A™ Port 3.0
10. USB Type-C™ Port (Data only, power delivery up to 15W)

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Models: 1A9M8AA

Panel Specifications	<p>Display Size (Diagonal) 27-in</p> <p>Panel Technology IPS Oxide</p> <p>Refresh Rate 60 Hz</p> <p>Resolution 3840 x 2160 (UHD)</p> <p>Panel Bit Depth 10-bit (8+2 FRC)</p> <p>Aspect Ratio 16:9</p> <p>Brightness (Typical) 266 nits</p> <p>HDR Peak Brightness (Typical) 600 nits (VESA DisplayHDR 600 Certified)</p> <p>Contrast Ratio (Static) 1300:1</p> <p>Contrast Ratio (HDR) 1300:1</p> <p>Pixel Pitch 0.15544 mm</p> <p>Pixels Per Inch (PPI) 163 PPI</p> <p>Backlight Lamp Life Minimum (To Half Brightness - In Hours) 30,000</p> <p>Backlight Type Edge-lit</p> <p>Screen Treatment Anti-glare</p> <p>Hardness 3H</p> <p>Haze 25%</p> <p>Response Time (Typical) 14 ms</p> <p>Horizontal Viewing Angle (Typical Cr>10) 178°</p> <p>Vertical Viewing Angle (Typical Cr>10) 178°</p> <p>Panel Active Area Metric (Width) 596.736 mm</p> <p>Panel Active Area Metric (Height) 335.664 mm</p> <p>Flicker Free Yes (SDR mode only)</p> <p>NOTE: Performance Specifications Represent The Typical Specifications Provided By HP's Component Manufacturers; Actual Performance May Vary Either Higher Or Lower.</p> <p>HP-applied uniformity compensation to each Z27xs G3 display, which brings the typical uniform peak luminance down to 266 cd/m² from a 450 cd/m² native peak brightness. Display supports luminance calibration up to 266 cd/m², reserving any luminance headroom for panel aging compensation.</p>
Color Management	<p>Factory Color Calibrated Yes (Delta E <=2)</p> <p>Calibrated Color Presets Design for web, Design for print, Photography, HD video (Pantone Validated)</p> <p>User Calibration Support Host software (Windows or macOS)</p> <p>Default Color Temperature Photography (P3 D65)</p> <p>sRGB 99%</p> <p>P3 D65 98%</p>
Monitor Specifications	<p>Bezel 4-sided Micro Edge</p> <p>Color (Head) Turbo Silver; (Stand) Turbo Silver</p> <p>Tilt -5 to +20°</p> <p>Swivel ±45°</p> <p>Pivot ±90</p> <p>Height Adjust Range 150 mm</p> <p>VESA Mounting 100 mm x 100 mm (bracket included)</p> <p>Security Lock Ready Standard Security Lock Slot</p> <p>Detachable Stand Yes</p> <p>Warranty 3/3/0 for LA, NA, EMEA, APJ; (3/3/3 in select APJ Countries)</p> <p>Low Blue Light Yes (TÜV certified)</p> <p>Zero Bright Dot Warranty Yes</p> <p>Display Software HP Display Center</p>

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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)
	NOTE: Apply to high resolution and/or high frame rate displays only. CONFIRM WITH EPM whether disclaimer applies.	
	Maximum Resolution	4K UHD (3840 x 2160) 640 x 480 @60Hz 720 x 400 @70Hz 800 x 600 @60Hz 1024 x 768 @60Hz 1280 x 720 @60Hz 1280 x 800 @60 Hz 1280 x 1024@60Hz 1440 x 900 @60Hz 1600 x 900 @60Hz 1680 x 1050 @60Hz 1920 x 1080 @60Hz 1920 x 1200 @60Hz 2560 x 1440 @60Hz 3840 x 2160 @60Hz
	Preset Graphic Modes/Supported Resolutions	
	Minimum Vertical Scan Rate	40 Hz
	Maximum Vertical Scan Rate	60 Hz
	Minimum Horizontal Scan Rate	30.0 kHz
	Maximum Horizontal Scan Rate	135.0 kHz
	Maximum Pixel Clock	600.0 MHz
	User Programmable Modes	Yes
	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
	HDMI	1 HDMI 2.0
	HDCP	Yes, DisplayPort and HDMI
	USB Type-C™ Video Input	1 USB Type-C™ (DP Alt Mode 1.4, power delivery up to 100W)
	USB Type-C™ Data	1 USB Type-C™ (Data only, power delivery up to 15W)
	USB-A	3 USB-A 3.2 Gen 1
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 - Maximum	250 W
	Energy Saving/Standby Mode	0.5 W
	Power Consumption - Typical	48 W
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%

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	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		
	Arsenic-Free Display Glass	Yes		
	Low Halogen	Yes		
	Agency Approvals And Certifications	WW application CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/GS/BIS/cTUVus/Low Blue Light/UAE/Ukraine/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/ TCO Certified Edge/Energy Star/ERP ISC/VCCI/FCC/BSMI/WEEE		
	Microsoft Whql Certification	Yes		
	Energy Star® Certified	Yes		
	EPEAT® Registered	Yes		
	Regions Need To Verify By Country	Yes		
	China Energy Label			
	TCO Certified Edge	Yes		
TCO Certified	Yes			
Smartway Transport Partnership - NA Only	Yes			
	<i>*External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.</i>			
	NOTE: DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.			
EU Energy Efficiency Class (ERP Lot-5)	On-mode Power Consumption	26W		
	ErP LOT5 Energy Efficiency Class			
Contains Recycled Plastics	Contains Recycled Plastics	ABS 85%		
	Recyclable Packaging (Box, packing materials)	100% recyclable packaging.		
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	60.8 x 21.5 x 52.9 cm	23.9 x 8.5 x 20.8 in	
	Product Dimensions (Packed) (W x D x H)	69.5 x 16.0 x 42.1 cm	27.4 x 6.3 x 16.6 in	
	Display Head Dimensions (Unpacked without stand) (W x D x H)	60.8 x 4.6 x 35.5 cm	23.9 x 1.8 x 14.0 in	
	Base Area Footprint (w x d mm)	26.6 x 21.5 mm	10.5 x 8.5 in	
	Product Weight (Unpacked with stand)	7.8 kg	17.2 lb	
	Product Weight (Packed)	11.2 kg	24.6 lb	
	Product Weight (Head Only)	5.9 kg	13 lb	

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What's in the box?

Monitor assembly
Documentation kit
HDMI2.0 Cable (1.8m)
DP1.4 Cable (1.8m)
USB3.2 Gen2 Type C to C (1m)
USB3.1 Gen1 Type C to A (1.8m)
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)) • 80.5% 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)		19.10 W	19.20 W	19.10 W
Normal Operation (Long idle)		N/A	N/A	N/A
Sleep		0.31 W	0.32 W	0.31 W
Off		0.27 W	0.28 W	0.27 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)		60 BTU/hr	60.3 BTU/hr	60 BTU/hr
Normal Operation (Long idle)		N/A	N/A	N/A
Sleep		1 BTU/hr	1 BTU/hr	1 BTU/hr

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	Off	0.8 BTU/hr	0.8 BTU/hr	0.8 BTU/hr
		<p>*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p>		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)		Sound Power (L _{WAd} , 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 xx.x% recycle-able when properly disposed of at end of life. 			
Packaging Materials	External:	PAPER/paper	1925 g	
		PAPER/paper	830 g	
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	6 g	
		PLASTIC/EPE (Expanded Polyethylene)	12 g	
		PLASTIC/EPE (Expanded Polyethylene)	18	
			The plastic packaging material contains at least 100% 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>			

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		<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. • 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.

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		<ul style="list-style-type: none"> 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: 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			
March 9, 2021	V1 to V2		Energy Efficiency Class
April 16, 2021	V2 to V3	Update	VESA Mounting Specs
May 4, 2021	V3 to V4	Update	Energy Efficiency Class
January 10, 2022	V4 to V5	Update	VESA Mounting, Power and Operating Specs
February 8, 2023	V5 to V6	Update	Energy Efficiency Class section
	V6 to V7		