

### Technical Specifications

#### HP Z24f G3 FHD Display

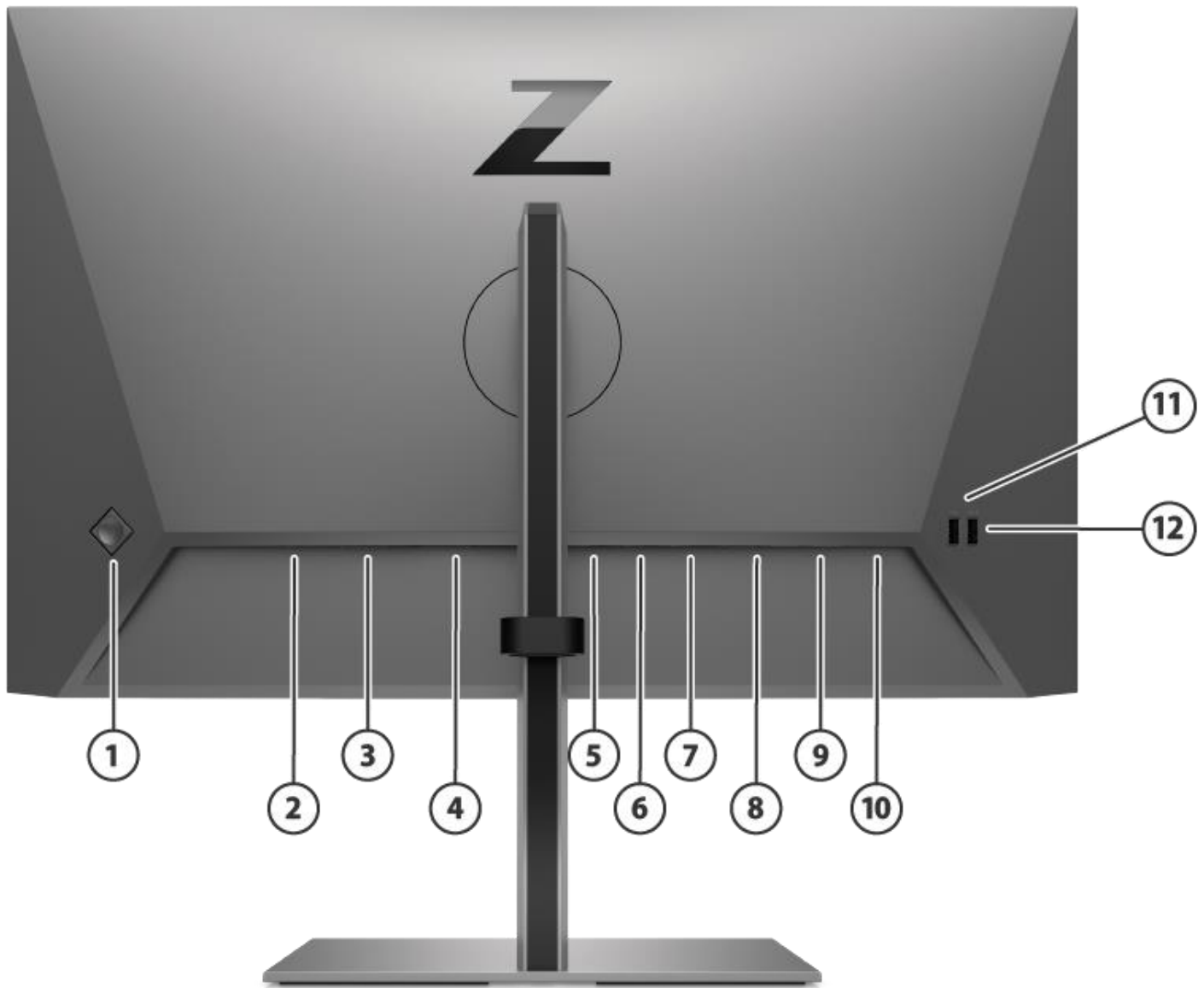


**Front**

1. Power button

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1. OSD control
2. Security cable slot
3. Master power switch
4. Power connector
5. HDMI port
6. DisplayPort™ connector

#### Back

7. DisplayPort™ connector (out)
8. USB Type-B port (upstream)
9. USB port
10. USB port (Battery charging 1.2, 7.5W)
11. USB port
12. USB port (Battery charging 1.2, 7.5W)

### Technical Specifications

<b>Panel Specifications</b>	<b>Display Size (Diagonal)</b>	23.8"
	<b>Panel Technology</b>	IPS
	<b>Refresh Rate</b>	60 Hz
	<b>Panel Bit Depth</b>	8 bit (6bit + FRC)
	<b>Aspect Ratio</b>	16:9
	<b>Brightness (Typical)</b>	300 nits
	<b>Contrast Ratio (Static)</b>	1000:1
	<b>Dynamic Contrast Ratio</b>	10M:1
	<b>Flicker Free</b>	Yes
	<b>Pixel Pitch</b>	0.2745mm
	<b>Pixels Per Inch (Ppi)</b>	93 PPI
	<b>Backlight Lamp Life Minimum (To Half Brightness - In Hours)</b>	40 k
	<b>Backlight Type</b>	Edge-lit
	<b>Screen Treatment</b>	Anti-glare
	<b>Hardness</b>	3H
	<b>Haze</b>	25%
	<b>Response Time (Typical)</b>	5ms GtG (with overdrive)
	<b>Horizontal Viewing Angle (Typical Cr&gt;10)</b>	178°
	<b>Vertical Viewing Angle (Typical Cr&gt;10)</b>	178°
	<b>Panel Active Area (W X H)</b>	527.04(H)*296.46(V)
<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 Management</b>	<b>Factory Color Calibrated</b>	Yes (Delta E <=2)
	<b>Calibrated Color Presets</b>	sRGB, BT.709, (Color Match)
	<b>RGB Channel Adjust</b>	Yes, Gain
	<b>Default Color Temperature</b>	sRGB
<b>Color</b>	<b>sRGB</b>	99 %
	<b>P3 D65</b>	85%
<b>Monitor Specifications</b>	<b>Bezel</b>	4-sided Micro Edge
	<b>Color</b>	(Head) Turbo Silver ; (Stand) Turbo Silver
	<b>Tilt</b>	-5 to +20°
	<b>Swivel</b>	±45°
	<b>Pivot</b>	±90
	<b>Height Adjust Range</b>	150mm
	<b>VESA Mounting</b>	100 mm x 100 mm (bracket included)
	<b>Security Lock Ready</b>	Standard Security Lock Slot
	<b>Detachable Stand</b>	Yes
	<b>Warranty (Number of Years)</b>	3/3/0 for LA, NA, EMEA, APJ; (3/3/3 in select APJ Countries)
	<b>Low Blue Light Mode</b>	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	<b>Display Management Software</b>	HP Display Center
	<b>On Screen Display</b>	Joystick
	<b>On Screen Controls</b>	Brightness +, Color, Image, Input, Power, Menu, Management, Information, Exit
	<b>User-Assignable Function Buttons</b>	Yes, 4 buttons
	<b>Native Resolution</b>	Full HD (1920 x 1080)
	<b>Native Resolution Footnote</b>	
<b>Maximum Resolution</b>	1920x1080 @ 60HZ	

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	<b>Preset Graphic Modes/Supported Resolutions</b>	640 × 480@60Hz 800 × 600@60Hz 1024 × 768@60Hz 1280 × 720@60Hz 1280 × 800@60Hz 1280 × 1024@60Hz 1440 × 900@60Hz 1600 × 900@60Hz 1680 × 1050@60Hz 1920 × 1080@60Hz
	<b>High Definition Video Formats</b>	720 × 480p@60Hz 720 × 576p@50Hz 1280 × 720p@50Hz 1280 × 720p@60Hz 1920 × 1080p@50Hz 1920 × 1080p@60Hz
	<b>Minimum Vertical Scan Rate</b>	50 Hz
	<b>Maximum Vertical Scan Rate</b>	60 Hz
	<b>Minimum Horizontal Scan Rate</b>	30.0 kHz
	<b>Maximum Horizontal Scan Rate</b>	75.0 kHz
	<b>Maximum Pixel Clock</b>	170 MHz
	<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>DisplayPort™ Out</b>	1 DisplayPort™ 1.2-out
	<b>HDMI</b>	1 HDMI 1.4
	<b>USB- A</b>	4 USB-A 3.2 Gen1 (2 for battery charging 1.2, 7.5W)
	<b>USB-B (Hub enablement)</b>	1 USB-B
<b>Special Features</b>	<b>DaisyChain/DisplayPort Multi stream Transport (MST)</b>	Yes
<b>Power &amp; Operating Specs</b>	<b>Power Supply</b>	Internal
	<b>Power Source</b>	100 – 240 VAC 50/60 Hz
	<b>Power Consumption- MAX</b>	58 W
	<b>Energy Saving/Stand By Mode</b>	0.5 W
	<b>Power Consumption- Typical</b>	26 W
	<b>Power Cable Length</b>	1.9m
<b>ENERGY STAR Data</b>	<b>Operational Mode at 100 VAC</b>	11.06 W
	<b>Operational Mode at 115 VAC</b>	11.1 W
	<b>Operational Mode at 230 VAC</b>	11.1 W
<b>EU Energy Efficiency Class (ERP Lot-5)</b>	<b>On-mode Power Consumption</b>	12.5 W
	<b>Annual Power Consumption</b>	19 kWh
	<b>Energy Efficiency Class</b>	D
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	5° – 35°C
	<b>Operating Temperature - Fahrenheit</b>	41° – 95°F
	<b>Non-Operatin Temperature - Celsius</b>	–34° – 60°C
	<b>Non-Operating Temperature - Fahrenheit</b>	29° – 140°F
	<b>Operating Humidity</b>	20 – 80% Relative Humidity (non-condensing)
	<b>Non-Operating Humidity</b>	5 – 95%

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	<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	
	<b>Agency Approvals And Certifications</b>	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/Vietnam MEPS/Australian-New Zealand MEPS/WEEE/UAE/Ukraine/ERP/ISC	
	<b>Microsoft WHQL Certification</b>	Yes	
	<b>ENERGY STAR® Certified</b>	Yes	
	<b>EPEAT® Registered</b>	Yes	
	<b>Regions need to verify by country</b>		
	<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</b>	80.76%	
	<b>Recyclable Packaging (Box, packing materials)</b>	100% recyclable packaging.	
<b>Unit Product/Package Specifications</b>	<b>Product Dimensions</b> (Unpacked with stand) (W x D x H)	53.84 x 19.5x 48.93 cm	21.2x7.68 x 19.26 in
	<b>Product Dimensions</b> (Packed) (W x D x H)	62.5 x 37.3 x 14.2 cm	24.61 x 14.69 x 5.59 in
	<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	53.84 x3.85x 31.37 cm	21.2x 1.52 x 12.35 in
	<b>Base Area Footprint</b> (w x d mm)	232 X 195 mm	9.13 X 7.7 in
	<b>Bezel Measurements - Metric</b>	Bottom Cover:530.2mm	Bottom Cover:20.87in
	<b>Product Weight</b> (Unpacked with stand)	4.7 kg	10.4 lb
	<b>Product Weight</b> (Packed)	7.2 kg	15.6 lb
	<b>Product Weight</b> (Head Only)	3.5 kg	7.7 lb
<b>What's in the box?</b>	Documentation kit DP1.4 Cable (1.8m) USB3.0 Type A to B (1.8m) Power cable VESA Adapter Cable Holder		
<b>User Guide and Warranty Languages</b>	<b>User Guide Languages</b>	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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### **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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Summary

<b>Change Log</b>			
January 12, 2021	V1 to V2	Updated	Technical Specifications
February 28, 2021	V2 to V3	Updated	Energy Efficiency Class