

Technical Specifications

HP Z24m G3 QHD Conferencing Display



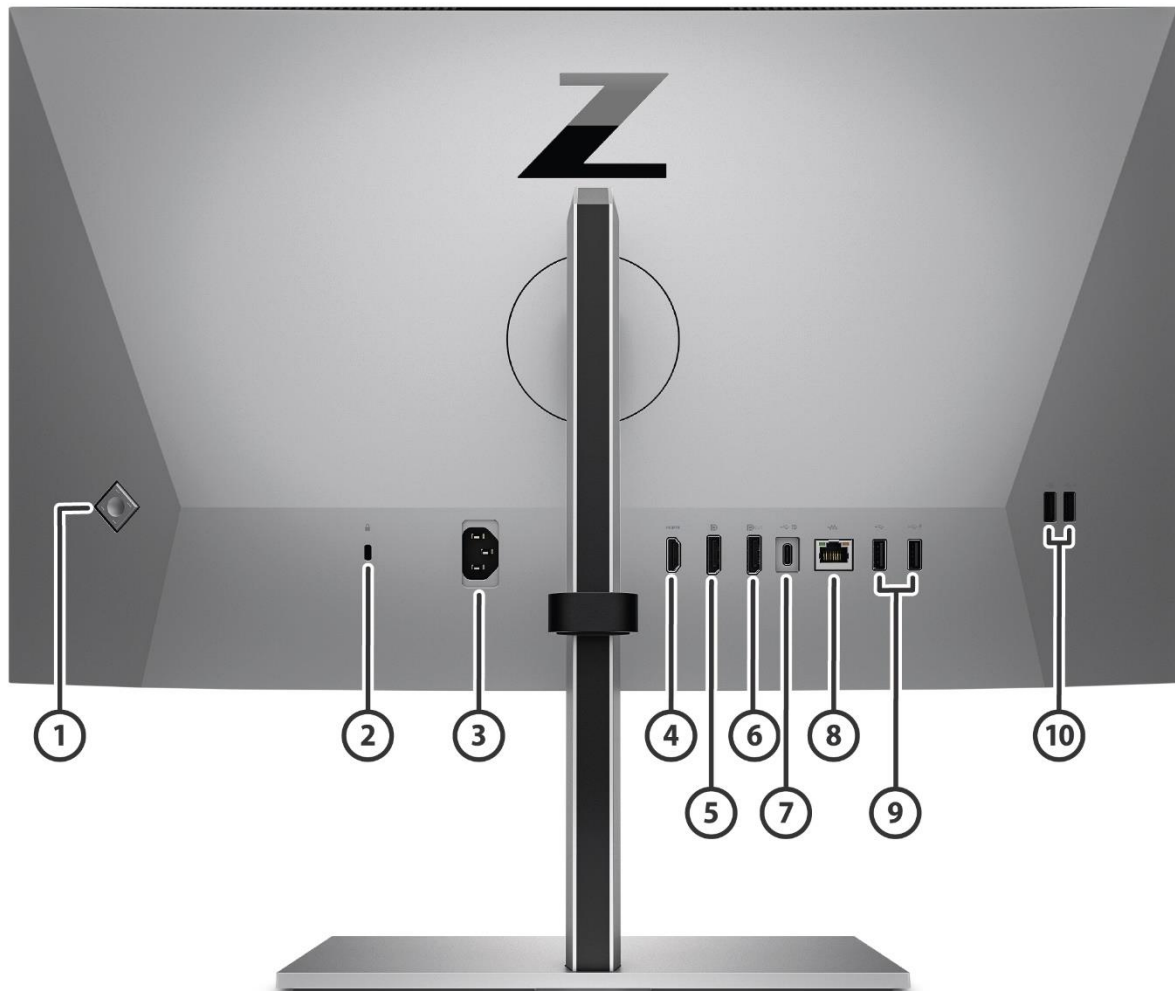
- 1. Tilt Levers
- 2. Microphones (2)
- 3. Camera Light
- 4. Camera RGB Lens
- 5. Camera IR Lens

Front

- 6. Camera IR Light
- 7. User-proximity sensor
- 8. Power Button
- 9. Power LED

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1. OSD Button
2. Security Cable Slot
3. Power Connector
4. HDMI 2.0 Port
5. DisplayPort™ 1.4 connector

Back

6. DisplayPort™ 1.4-out
7. SuperSpeed USB Type-C® 10Gbps signaling rate (Up to 100W USB Power Delivery, Alt Mode DisplayPort™ 1.4)
8. Ethernet Connector
9. SuperSpeed USB Type-A 5Gbps signaling rate (2)
10. SuperSpeed USB Type-A 5Gbps signaling rate (2)

Technical Specifications

Model: 4Q8N9AA and 4Q8N9A7

Panel Specifications	Display Size (Diagonal)	23.8"
	Panel Technology	IPS
	Max Refresh Rate	90 Hz
	Native Resolution	QHD (2560 x 1440)
	Panel Bit Depth	10 bit (8bit +FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	400 nits
	HDR	HDR 400
	Contrast Ratio (Static)	1000:1
	Dynamic Contrast Ratio	10M:1
	Flicker Free	Yes
	Pixel Pitch	0.21 x 0.21 mm
	Pixels Per Inch (PPI)	123 PPI
	Display Colors	Up to 1.07 billion colors supported
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30
	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)	52.68 x 29.64cm
	Panel Active Area Imperial (W X H)	20.74 x 11.67in



NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Color	sRGB	99
	BT.709	99
	DCI-P3	90
Color Management	Factory Color Calibrated	Yes
	Calibrated Color Presets	sRGB 99%
	Color Space/ Subsampling Support	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	RGB Channel Adjust	Yes, Gain, downstream from color preset
	Default Color Temperature	Standard (6500K)
Monitor Specifications	Bezel Type	4-sided Micro Edge
	Color Of Stand	Silver
	Color Of Head	Black/Silver
	Tilt	-5 to +20°
	Swivel	±45°
	Pivot	±90°

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	Height Adjust Range	150mm
	Vesa Mounting	100 mm x 100 mm (bracket included)
	Security Lock	Standard Security Lock Slot
	Detachable Stand	Yes
	Warranty	3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries)
	Low Blue Light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	Zero Bright Dot Warranty	Yes
	Webcam	5MP
	Webcam Features	Independent tilt -20° to 5°, Windows Hello support (IR sensor), Pop-up privacy.
	Windows Hello Compatible	Yes
	Microphone	Yes (noise cancelling)
	Speaker Output Power	2 x 5W
	Certified Collaboration Software Management Software	Zoom HP Display Center, HP Display Manager* <i>*Host PC requires Windows 10. HP Display Center is available on the Microsoft store</i>
On Screen Display (OSD)	On Screen Display	Brightness, Color, Image, Input, Power, Menu, Management, Information, Exit
	Native Resolution	QHD (2560 x 1440) NOTE: DisplayPort 1.2 or HDMI 1.4 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 2560 × 1440 at 60 Hz with 10-bit color using one DP, HDMI, or USB-C (DP alt mode). The video card of the connected PC must be capable of supporting 2560 x 1440 at 60 Hz and include 1 DP ,1 HDMI or USB-C (DP alt mode) outputs to drive the monitor at the Preferred Mode
	Maximum Resolution	2560 x 1440 @90Hz
	Preset Graphic Modes/Supported Resolutions	640 x 480 @ 60Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 1024 @ 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 1920 x 1200 @ 60 Hz 2560 x 1400 @ 60 Hz 2560 x 1400 @ 90 Hz
	Minimum Vertical Scan Rate	50 Hz
	Maximum Vertical Scan Rate	90 Hz
	Minimum Horizontal Scan Rate	30.0 kHz

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	Maximum Horizontal Scan Rate	140.0 kHz
	Maximum Pixel Clock	370.0 MHz
	User Programmable Modes	Yes, 14
	User-Assignable Function Buttons	Yes, 4 (7 options)
	Audio	Built-in speakers
	Languages	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
Connector Types	DisplayPort™	1 DisplayPort™ 1.4
	DisplayPort™ Out	1 DisplayPort™ 1.4-out
	HDMI	1 HDMI 2.0
	HDCP	Yes, DisplayPort and HDMI
	USB Type-C® Video Input & Data Transfer	SuperSpeed USB Type-C® 10Gbps signaling rate (Up to 100W USB Power Delivery, Alt Mode DisplayPort™ 1.4)
	USB- A	4 SuperSpeed USB Type-A 5Gbps signaling rate
	ETHERNET	Yes
Special Features	SWITCH	Brightness/Next Active Input/Color/Volume/Menu
	Remote Manageability	In-Band MAPT, In-Band WOL, PXE Boot
	User Presets	14
	True 2K Image Scaling	Yes
	User Updateable Firmware	Yes
	Presence Detection Sensor	Yes
	Daisy Chain	Yes
Power & Operating Specs	Power Supply	Internal
	Power Source	100 – 240 VAC 50/60 Hz
	Power Consumption- Max	170
	Energy Saving/Stand By Mode	0.5
	Power Consumption - Typical	38
Energy Star Data	Operational Mode at 100 VAC	20.76
	Operational Mode at 115 VAC	20.85
	Operational Mode at 230 VAC	20.93
EU Energy Efficiency Class (ErP LOT-5)	On-mode Power Consumption for Standard Dynamic Range (SDR)	21.5
	ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)	
	On-mode Power Consumption for High Dynamic Range (HDR)	26.6
	ErP LOT5 Energy Efficiency Class for High Dynamic Range (HDR)	

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Operating Conditions	Operating Temperature - Celsius	5° – 35°C	
	Operating Temperature - Fahrenheit	41° – 95°F	
	Non-Operating Temperature - Celsius	-20° – 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.)	
Certifications and Compliances	Low Halogen	Yes*	
	Agency Approvals and Certifications	*External power supplies, WWAN modules, power cords, cables and peripherals excluded.	
		WW application	
		CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/EAC/CTUVus/GS/PSB/ISC/CCC/CEL/SEPA/Low Blue Light/ISC/VCCI/FCC/BSMI/BIS/South Africa/UAE/Ukraine/Vietnam MEPS/Australian-New Zealand MEPS/WEEE	
		Win 11	
Microsoft WHQL Certification	Win 11		
China Energy Label	CEL Grade 3*		
	*Monitors produced from June 2024 comply with China regulation GB 21520-2023.		
SmartWay Transport Partnership - NA only	Yes (NA sku)		
Contains Recycled Plastics	Contains Recycled Plastics	PCR 85%* + 5% Ocean Bound Plastic**	
		*Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT® standard.	
		**5% ocean bound plastic by weight in each of the following components: Rear Cover, OSD holder, Bezel Chin, OSD Joystick, USB Holder, Power Button, Webcam cover, Pivot Cover, Column front cover, Column back cover and Cable holder.	
	Recycled Aluminum	90%*	
	*90% recycled aluminum in the 24" Column.		
	Recyclable Packaging (Box, packing materials)	Outside Box and corrugated cushions are 100% sustainably sourced and recyclable*	
		*100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.	
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	Metric 53.83 x 19.5 x 48.93 cm	Imperial 21.19 x 7.68 x 19.26 in
	Product Dimensions (Packed) (W x D x H)	62.5 x 14.1 x 38.7 cm	24.61 x 5.55 x 15.24 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	53.83 x 4.84 x 31.17 cm	21.19 x 1.91 x 12.27 in
	Base Area Footprint (w x d mm)	232 x 195 mm	9.13 x 7.68 in

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	Bezel Measurements (Unpacked with stand) (W x D x H)	Bottom:530.44 mm	Bottom:20.88 in
	Product Weight (Unpacked with stand)	5.7 kg	12.6 lb
	Product Weight (Packed)	8.2 kg	18.1 lb
	Product Weight (Head Only)	4.5 kg	9.92 lb
Pallet Information	Pallet Dimensions (L x W x H mm)	Slip Sheet: 1210x1070x2338 mm (40' ft HQ) Pallet: 1210 x 1070 x 2072 mm (40' ft)	Slip Sheet: 47.64x42.13x92.05 inch (40' ft HQ) Pallet: 47.64 x 42.13 x 81.57 inch (40' ft)
	Pallet Total Weight	Slip Sheet: 693.8 kg (40' ft HQ) Pallet: 593 kg (40' ft)	Slip Sheet: 1529.55 lb (40' ft HQ) Pallet: 1307.32 lb (40' ft)
	Pallet Layers	Slip Sheet: 6 layers (40' ft HQ) Pallet: 5 layers (40' ft)	
	Pallet Product per Layer	14 per layer	
	Total Products per Pallet	Slip Sheet: 84 sets (40' ft HQ) Pallet: 70 sets (40' ft)	
	Container Load, 20-Foot	700 sets (slip sheet and pallet)	
	Container Load, 40-Foot	1470 sets (slip sheet and pallet)	
	Container Load, 40-Foot HighQ	1764 sets (slip sheet and pallet)	
What's in the box?	AC power cord (1.83m) 5.9ft HDMI 2.0 cable (1.8m) 5.9 ft USB 3.2 C-C cable (1m) DP 1.4 cable (1.8m) Warranty Quick Setup Poster VESA MOUNT ADAPTER Color calibration report		
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	

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(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)

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Summary

Change Log			
February 21, 2023	V1 to V2	Updated	USB Type-C® in Connectors type section
April 18, 2024	V2 to V3	Updated	China Energy Label