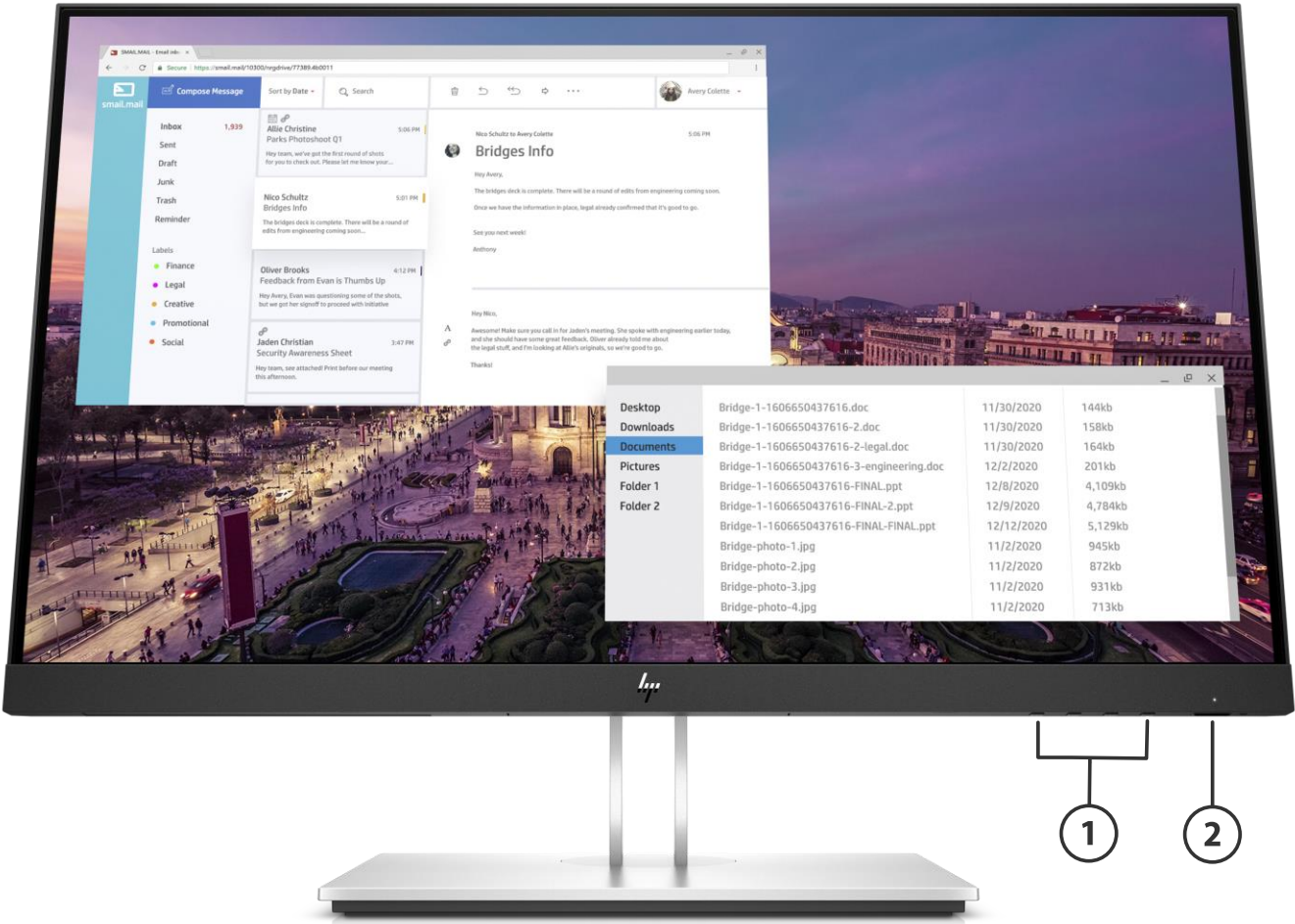


Technical Specifications

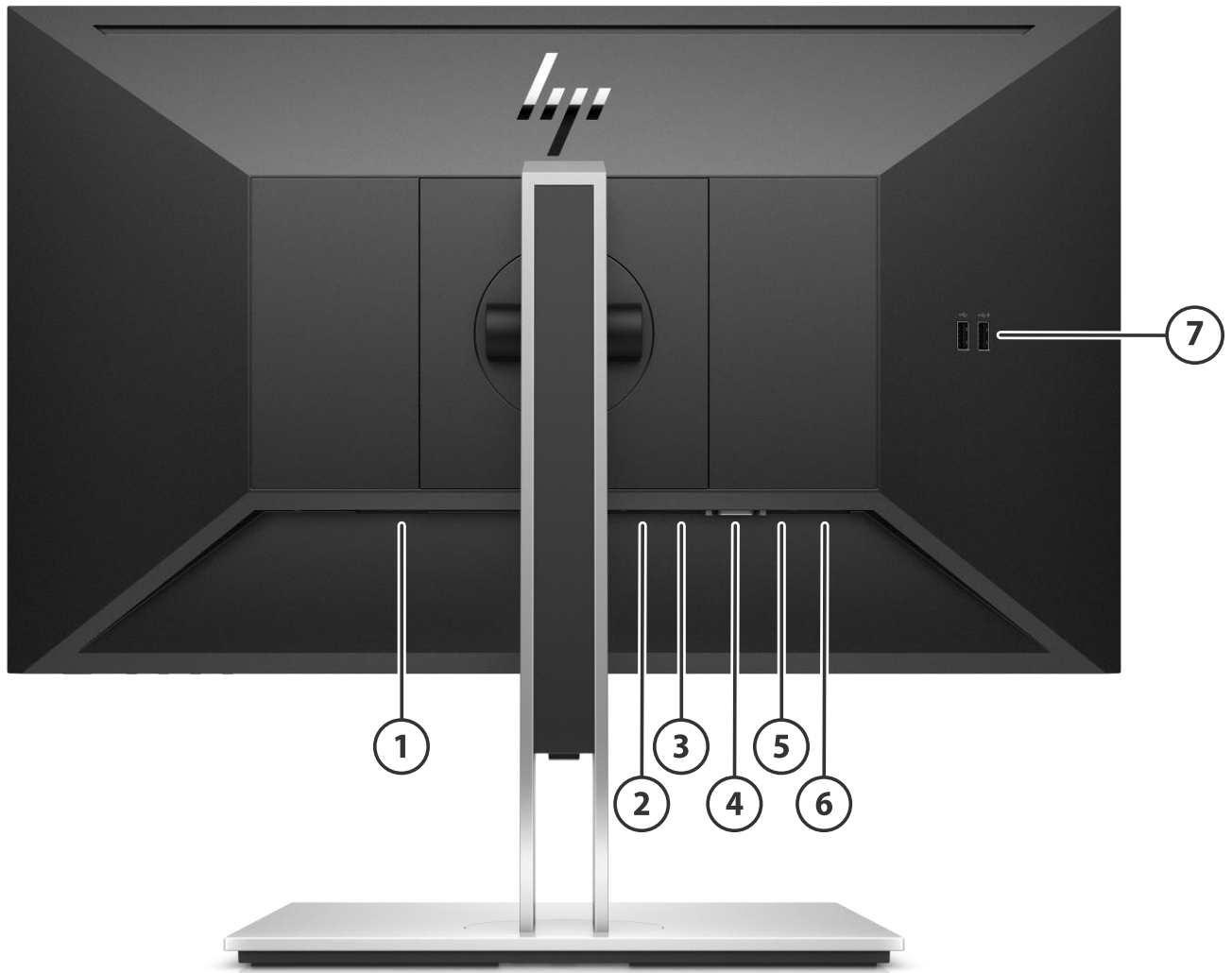
HP E23 G4 FHD Monitor



1. OSD Buttons
- Front
2. Power Button

Technical Specifications

HP E23 G4 FHD Monitor



Back

- 1. Power Connector
- 2. DisplayPort™
- 3. HDMI Port
- 4. VGA Port

- 5. USB-B Port
- 6. USB-A Ports (2)
- 7. USB-A Ports (2)

Technical Specifications

Models: 9VF96AA

Panel Specifications	Display Size (Diagonal)	23-in
	Display Panel Type	IPS
	Micro-Edge Bezel	Yes, 3-sided
	Curved Panel	N/A
	Native Resolution/Timing	1920×1080 @ 60 Hz
	Panel Bit Depth	8bit (6bit + FRC)
	Aspect Ratio	16:9
	Brightness - Typical	250 cd/m²
	Static Contrast Ratio - Typical	1000:1
	Dynamic Contrast Ratio (DCR)	5,000,000:1
	Flicker Free	Yes
	Pixel Pitch	0.2652(H)mm x 0.2652(V)mm
	Pixels Per Inch (PPI)	96
	Backlight Lamp Life (to half brightness - in hours)	30k minimum
	Anti-Glare Panel	Yes
	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)	509.18mm x 286.42mm
	Preset Graphic Modes/Supported Resolutions	640 x 480 @ 60 Hz
		720 x 400 @ 70 Hz
		800 x 600 @ 60 Hz
		1024 x 768 @ 60 Hz
		1280 x 720 @ 60 Hz
		1280 x 800 @ 60 Hz
		1280 x 1024 @ 60 Hz
		1366 x 768 @ 60 Hz
		1440 x 900 @ 60 Hz
		1600 x 900 @ 60 Hz
		1680 x 1050 @ 60 Hz
		1920 x 1080 @ 60 Hz
		1920 x 1080 @ 60 Hz
		1920 x 1080 @ 60 Hz
Maximum Resolution		1920 x 1080 @ 60 Hz
Recommended Resolution		1920 x 1080 @ 60 Hz
Vertical Scan Range		50Hz - 60Hz
Horizontal Scan Range	30KHz - 80KHz	
Default Color Temperature	Neutral (6500K)	
Maximum Pixel Clock Speed	170MHz	
*VGA or DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution		
NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.		
Color Gamut Coverage	NTSC	72%
Color Management	Color Space / Subsampling Support	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	Default Color Temperature	Neutral (6500K)
	Low Blue Light Modes	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	RGB Channel Adjust	Yes, Gain

Technical Specifications

Monitor Specifications	Exterior Color of Monitor Bezel and Stand	Black head, Silver stand
	Plug & Play	Yes
	Tilt	–5° to +23°
	Swivel	±45°
	Pivot	±90°
	Height Adjustment Range	150 mm
	VESA Mounting	100mm x 100mm
	Security Lock Ready	Yes
	Detachable Base	Yes
	Warranty	Based on region
On Screen Display (OSD)	On Screen Display User Controls	Brightness+, Color, Image, Input, Power, Menu, Management, Information, Exit
	User Programmable Modes	Yes, 10
	Monitor Control Buttons or Switches	Menu/OK, Minus ("-")/Brightness, Plus ("+")/Color, Back/Input, Power
	User-Assignable Function Buttons	Yes, 4
Connector Types	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	DisplayPort™	1, DisplayPort™ 1.2
	HDMI	1, HDMI1.4
	VGA	1
	USB-A	4
	USB-B	1
	HDCP support	Yes, (DisplayPort™ and HDMI)
Power & Operating Specs	Power Supply	Internal
	Power Source	100 – 240 VAC 50/60 Hz
	Power Consumption - Maximum	51 W
	Energy Saving	0.5 W
	Power Consumption - Typical	26 W
Energy Star Data	Power cable length	1.9 m
	Operational Mode at 100 VAC	12.72 W
	Operational Mode at 115 VAC	12.75 W
	Operational Mode at 230 VAC	12.61 W
EU Energy Efficiency Class (ERP lot-5)	On-mode Power Consumption	16 W
	Annual Power Consumption	24 kWh
	Energy Efficiency Class	E
Operating Conditions	Operating Temperature - Celsius	5° – 35°C
	Operating Temperature - Fahrenheit	41° – 95°F
	Non-operating 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.)
	Mercury-free LED display backlighting	Yes, Mercury-free LED backlighting

Technical Specifications

Environmental Features and Certifications	Arsenic-Free Display Glass	Yes
	Low Halogen**	Yes
		GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR, PVC)
	Agency Approvals and Certifications	NOTE: External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/UL/CSA/PSB/ISC/CCC/Energy Star/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE
	Microsoft WHQL Certification	Win 10, Win 8, Win 7
	ENERGY STAR®	Yes, ENERGY STAR® 8
	EPEAT® Registered*	Yes
	China Energy Label	CEL Grade 1*
	TCO Certified	*Monitors produced before June 1st 2024 comply with China regulation GB 21520-2015.
	SmartWay Transport Partnership - NA only	Yes
		Yes (NA SKU)

* Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.

**External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

NOTE: DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

Unit Product/Package Specifications	Contains Recycled Plastics	85% recycled content by total weight	
	Product Dimensions (Unpacked with stand) (W x D x H)	Metric	Imperial
	Product Dimensions (Packed) (W x D x H)	52.16 x 20.7 x 48.98 cm	20.54 x 8.15 x 19.28 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	58.1 x 22.3 x 37.2 cm	22.87 x 8.78 x 14.65 in
	Base Area Footprint (w x d mm)	52.16 x 4.7 x 31.31 cm	20.54 x 1.85 x 12.33in
	Bezel Measurements	260 x 207 mm	10.24 x 8.15 in
	Product Weight (Unpacked with stand)	Bottom 19.49 mm	Bottom 0.77 in
	Product Weight (Packed)	5.4 kg	11.9 lb
	Product Weight (Head Only)	8.0 kg	17.6 lb
		3.12 kg	6.87 lb
Software Included	HP Display Center		
What's in the box?	AC Power Cord (1.8m) 5.9 ft HDMI Cable (1.8m) 5.9 ft DP Cable (1.8m) 5.9 ft USB-B to A cable (1.8m) 5.9 ft		

Technical Specifications

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.

Technical Specifications

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Summary

Change Log			
January 3, 2021	V1 to V2		Techspecs updated
February 28,2021	V2 to V3		Energy Efficiency Class
April 13, 2021	V3 to V4	Update	VESA Mounting Specs
May 17, 2024	V4 to V5	Remove	CEL and CECF
May 30, 2024	V5 to V6	Added	CEL and disclaimer