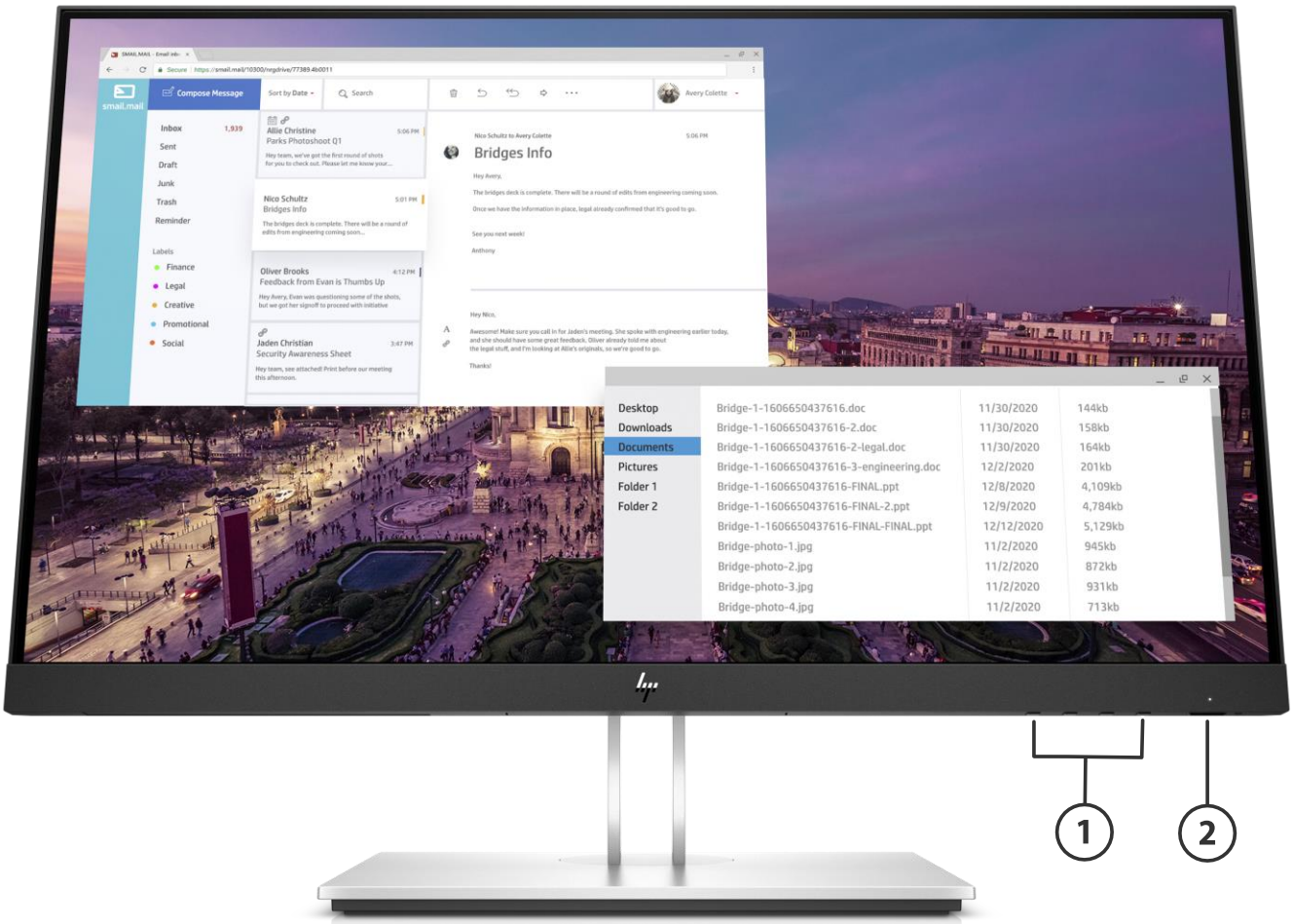
Technical Specifications

HP E23 G4 FHD Monitor



Front

1. OSD Buttons

2. Power Button

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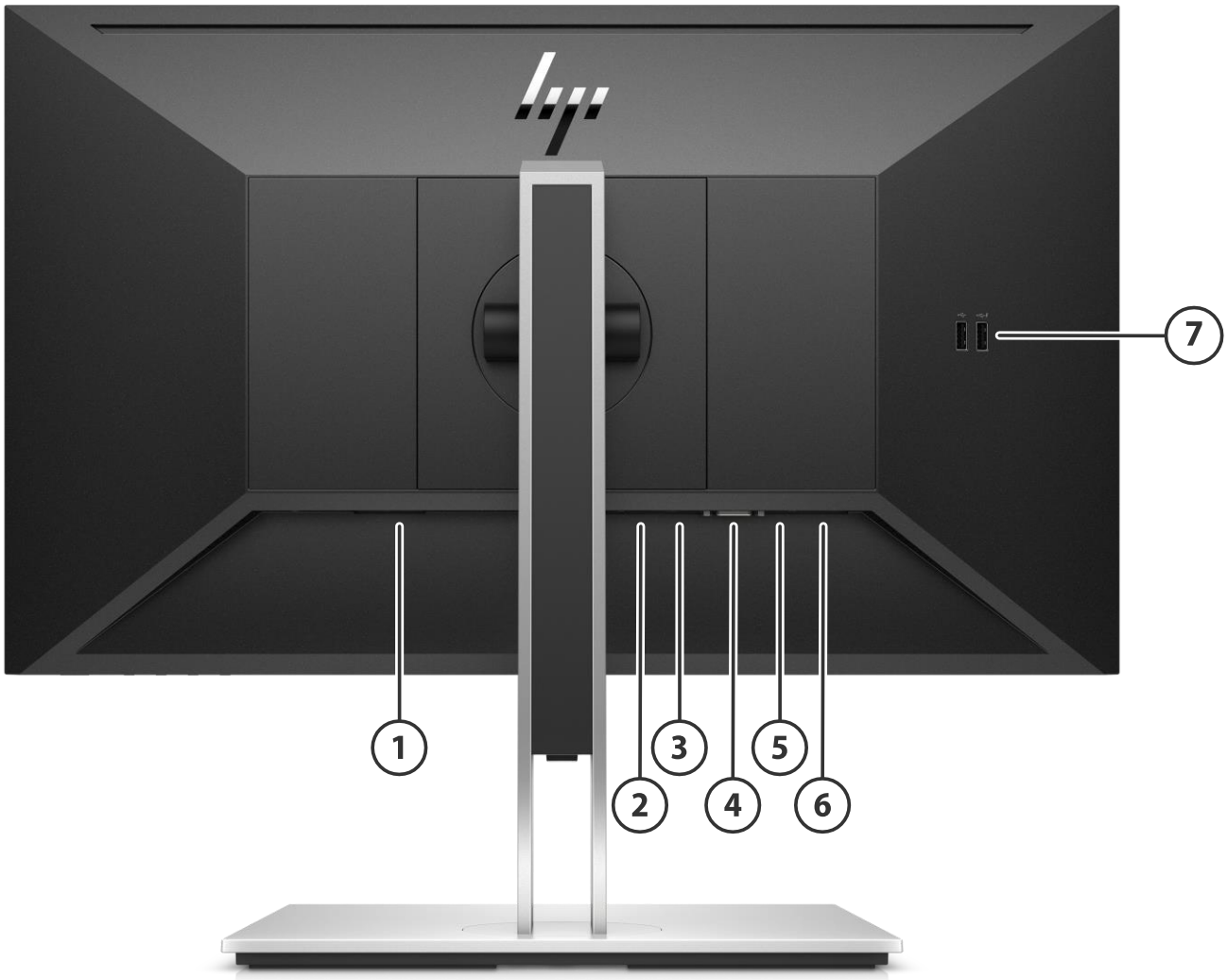

Back

1.	Power Connector	**5.**	USB-B Port
2.	DisplayPort™	**6.**	USB-A Ports (2)
3.	HDMI Port	**7.**	USB-A Ports (2)
4.	VGA Port		

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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
	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

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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	Yes, 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
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Connector Types	**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
	Power cable length	1.9 m
Energy Star Data	**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 (EC1062)	**On-mode Power Consumption (EC 1062/2010)**	16 W
	Annual Power Consumption (EC 1062/2010)	24 kWh
	Energy Efficiency Class (EC 1062/2010)	A+
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.)

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Environmental Features and Certifications	**Mercury-free LED display backlighting**	Yes, Mercury-free LED backlighting
	Arsenic-Free Display Glass	Yes
	Low Halogen**	Yes GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR, PVC) NOTE: External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
	Agency Approvals and Certifications	CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/UL/CSA/PSB/ISC/CCC/CEL/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	Yes
	SmartWay Transport Partnership - NA only	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.

	Contains Recycled Plastics	85% recycled content by total weight	
		Metric	**Imperial**
Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	52.16 x 20.7 x 48.98 cm	20.54 x 8.15 x 19.28 in
	Product Dimensions (Packed) (W x D x H)	58.1 x 22.3 x 37.2 cm	22.87 x 8.78 x 14.65 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	52.16 x 4.7 x 31.31 cm	20.54 x 1.85 x 12.33in
	Base Area Footprint (w x d mm)	260 x 207 mm	10.24 x 8.15 in
	Bezel Measurements	Bottom 19.49 mm	Bottom 0.77 in
	Product Weight (Unpacked with stand)	5.4 kg	11.9 lb
	Product Weight (Packed)	8.0 kg	17.6 lb
	Product Weight (Head Only)	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

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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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Summary

Change Log			
January 3, 2021	V1 to V2		Techspecs updated