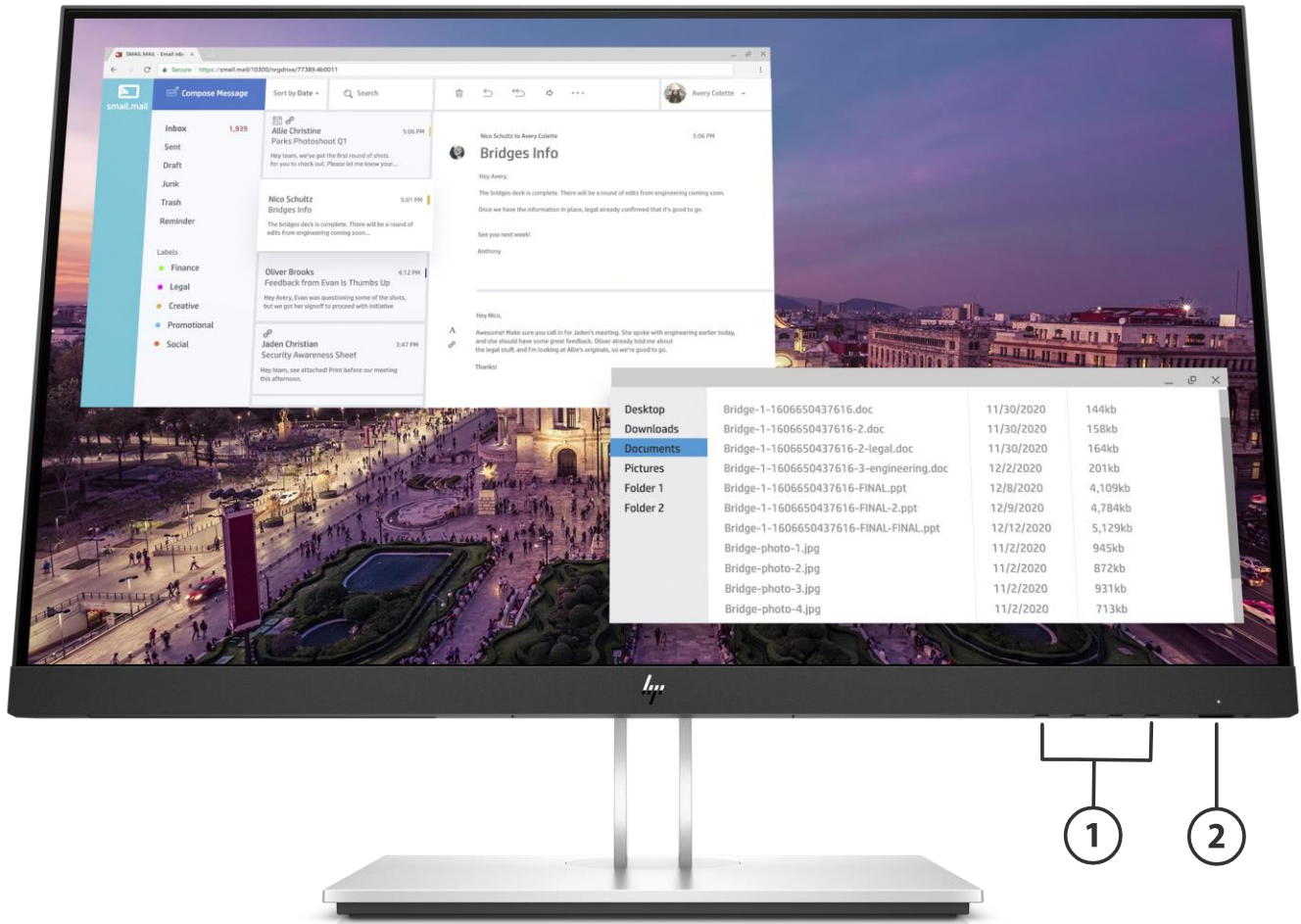


### Technical Specifications

#### HP E23 G4 FHD Monitor



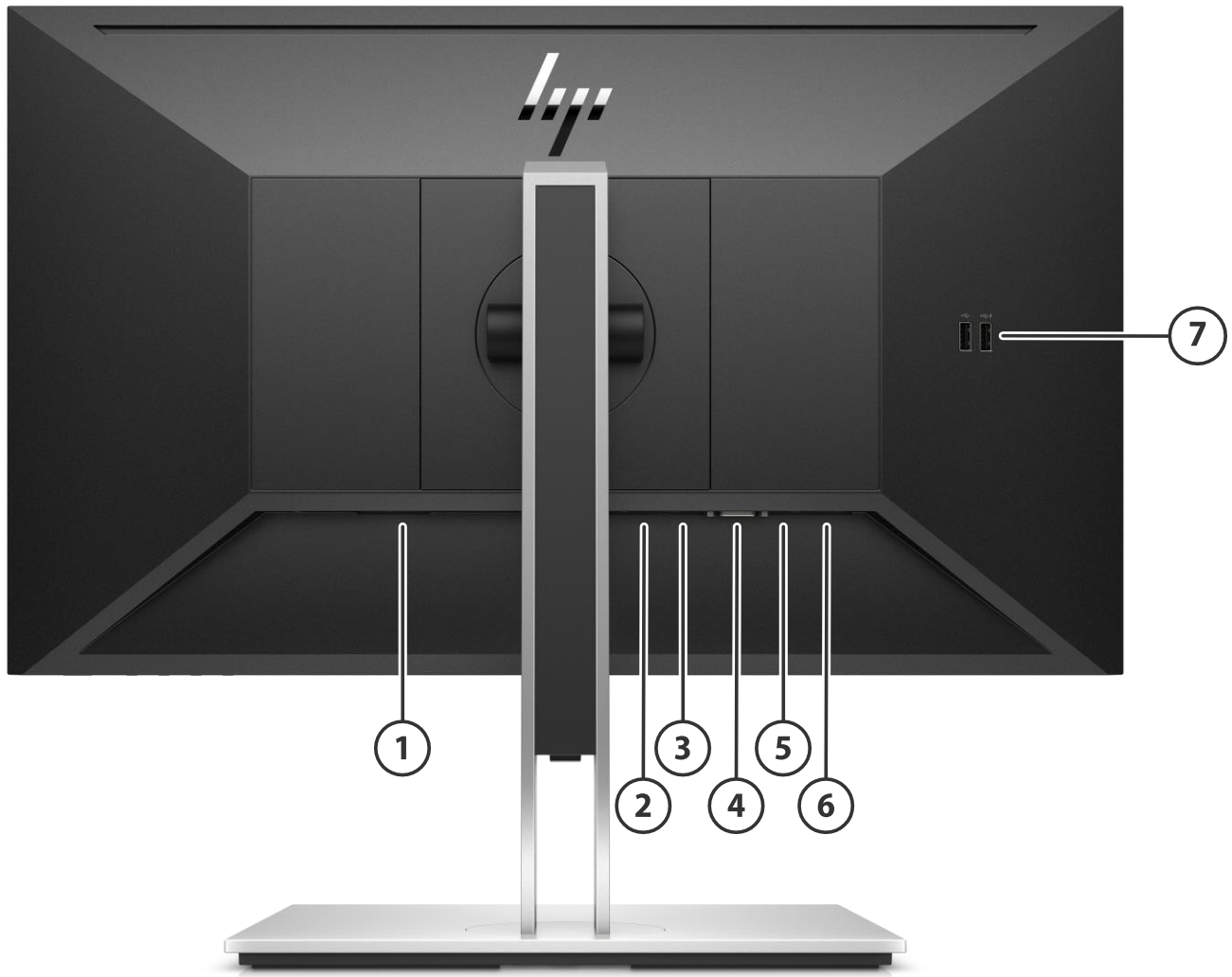
1. OSD Buttons

#### 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		
<b>NOTE:</b> 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

<b>Monitor Specifications</b>	<b>Exterior Color of Monitor Bezel and Stand</b>	Black head, Silver stand
	<b>Plug &amp; Play</b>	Yes
	<b>Tilt</b>	–5° to +23°
	<b>Swivel</b>	±45°
	<b>Pivot</b>	±90°
	<b>Height Adjustment Range</b>	150 mm
	<b>VESA Mounting</b>	Yes, 100mm
	<b>Security Lock Ready</b>	Yes
	<b>Detachable Base</b>	Yes
	<b>Warranty</b>	Based on region
<b>On Screen Display (OSD)</b>	<b>On Screen Display User Controls</b>	Brightness+, Color, Image, Input, Power, Menu, Management, Information, Exit
	<b>User Programmable Modes</b>	Yes, 10
	<b>Monitor Control Buttons or Switches</b>	Menu/OK, Minus ("-")/Brightness, Plus ("+")/Color, Back/Input, Power
	<b>User-Assignable Function Buttons</b>	Yes, 4
<b>Connector Types</b>	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	<b>DisplayPort™</b>	1, DisplayPort™ 1.2
	<b>HDMI</b>	1, HDMI 1.4
	<b>VGA</b>	1
	<b>USB-A</b>	4
	<b>USB-B</b>	1
<b>Power &amp; Operating Specs</b>	<b>HDCP support</b>	Yes, (DisplayPort™ and HDMI)
	<b>Power Supply</b>	Internal
	<b>Power Source</b>	100 – 240 VAC 50/60 Hz
	<b>Power Consumption - Maximum</b>	51 W
	<b>Energy Saving</b>	0.5 W
	<b>Power Consumption - Typical</b>	26 W
<b>Energy Star Data</b>	<b>Power cable length</b>	1.9 m
	<b>Operational Mode at 100 VAC</b>	12.72 W
	<b>Operational Mode at 115 VAC</b>	12.75 W
	<b>Operational Mode at 230 VAC</b>	12.61 W
<b>EU Energy Efficiency Class (ERP lot-5)</b>	<b>On-mode Power Consumption</b>	16 W
	<b>Annual Power Consumption</b>	24 kWh
	<b>Energy Efficiency Class</b>	E
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	5° – 35°C
	<b>Operating Temperature - Fahrenheit</b>	41° – 95°F
	<b>Non-operating 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%
	<b>Operating Altitude</b>	0 – 5,000 m (16,400 ft.)
	<b>Non-operating Altitude</b>	0 – 12,192 m (40,000 ft.)
	<b>Mercury-free LED display backlighting</b>	Yes, Mercury-free LED backlighting

### Technical Specifications

#### Environmental Features and Certifications

##### Arsenic-Free Display Glass Low Halogen\*\*

Yes  
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 ENERGY STAR®

Win 10, Win 8, Win 7

##### EPEAT® Registered\*

Yes, ENERGY STAR® 8

##### China Energy Label

Yes

##### TCO Certified

CEL Grade 1

##### 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.

##### Contains Recycled Plastics

85% recycled content by total weight

#### Unit Product/Package Specifications

##### Product Dimensions

(Unpacked with stand) (W x D x H)

##### Metric

52.16 x 20.7 x 48.98 cm

##### Imperial

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 12.33 in

##### 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

#### User Guide and Warranty Languages

##### User Guide Languages

English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian,

## *Technical Specifications*

### **Warranty Languages**

Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.

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