Technical Specifications

HP Z32 4K UHD Display
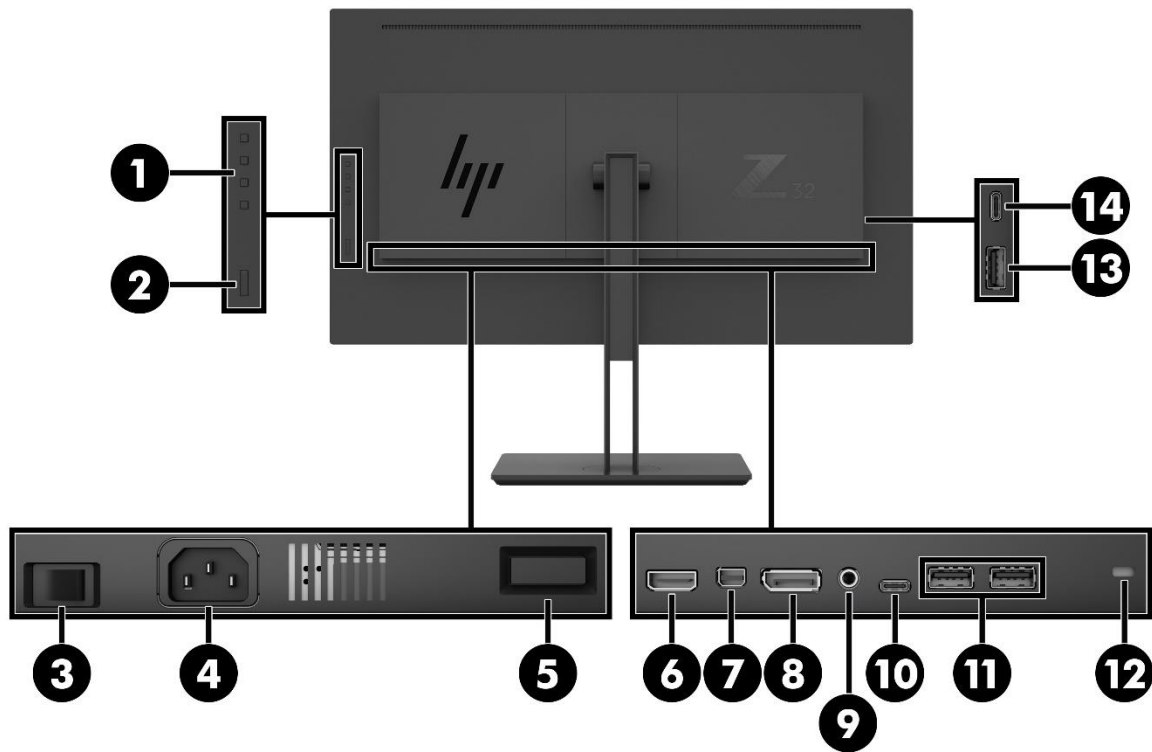

Front

1.	**Power light**	Power LED: Active = White Standby = Amber

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1. **Function buttons**
2. **Power button**
3. **Master power switch**
4. **Power connector**
5. **VESA release button**
6. **HDMI port**
7. **Mini DisplayPort™**
8. **DisplayPort™**
9. **Audio-out jack**
10. **USB Type-C™ port (upstream)**
11. **USB Type-A ports (2) (downstream)**
12. **Security cable slot**
13. **USB Type-A port (downstream)**
14. **USB Type-C™ 3.1 port (downstream)**

NOTE: The USB Type-C™ upstream port can function as a DisplayPort audio/video input, as a USB 3.0 upstream connection, or it can be used to deliver up to 65 watts of power to a device. See Power Output section below for specifications.

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Panel Specifications*		
	Display Size (Diagonal)	31.5-inch
	Display Panel Type	IPS
	Micro-Edge Bezel	Yes, 4 sided
	Native Resolution/Timing	3840 x 2160 @ 60 Hz
	Panel Bit Depth	10bit (8 + 2 FRC)
	Aspect Ratio	16:9
	Brightness - Typical	350 cd/m²
	Static Contrast Ratio - Typical	1,300:1
	Dynamic Contrast Ratio -Typical	5,000,000:1

NOTE: Dynamic Contrast Ratios during video playback only, depending on series of frames or time duration.

	Pixel Pitch	0.18159(H)mm x 0.18159(V)mm
	Pixels Per Inch (PPI)	140
	Backlight Lamp Life (to half brightness - in hours)	30k hours minimum
	Anti-Glare Panel	Yes
	Response Time – Typical	14ms Gray to Gray

NOTE: Product default is 14ms response time and can be adjusted to as low as 6ms in the display menu. See user guide for more information. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

	Horizontal Viewing Angle (typical CR>10)	178°
	Vertical Viewing Angle (typical CR>10)	178°
	Panel Active Area (w x h)	697.3056 x 392.2344 mm
	Preset Graphic Modes/Supported Resolutions	640×480 @60Hz
		720×400 @70Hz
		800×600 @60Hz
		720×480 @60Hz
		1024×768 @60Hz
		1280×720 @60Hz
		1280×768 @60Hz
		1280×800 @60Hz
		1280×1024 @60Hz
		1440×900 @60Hz
		1600×900 @60Hz
		1600×1200 @60Hz
		1680×1050 @60Hz
		1920×1080 @60Hz
		1920×1200 @60Hz
		2560×1440 @60Hz
		2560×1600 @60Hz
		3840×2160 @30Hz
		3840×2160 @60Hz
	Maximum Resolution	3840 x 2160 @ 60 Hz
	Recommended Resolution	3840 x 2160 @ 60 Hz
	Vertical Scan Range	29-60 Hz
	Horizontal Scan Range	28-135 kHz
	Maximum Pixel Clock Speed	533.25 MHz

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

Color Gamut Coverage		
	sRGB	99% sRGB
	BT.709	100%

Color Management		
	Factory Color Calibrated	Yes
	Factory Color Presets	BT.709, sRGB

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	Default Color Temperature	D65
	Low Blue Light Modes	Yes
	RGB Channel Adjust	Yes, Gain

Monitor Specifications	**Exterior Color of Monitor Bezel & Stand**	Black Pearl
	Plug & Play	Yes
	Tilt	Yes, -5° to +20°
	Swivel	Yes, 90°
	Height Adjustment Range	Yes,120 mm
	VESA Mounting	Yes 100 mm with integrated mount
	Security Lock Ready	Yes
	Detachable Base	Yes, ships detached
	Warranty	3/3/0
	Zero Bright Dot Guarantee	Yes

On Screen Display (OSD)	**On Screen Display User Controls**	Brightness, Contrast, Color Control, Input Control, Image Control, PIP Control, Power Control, Menu Control, Management, Information, Exit
	Monitor Control Buttons or Switches	Menu, Viewing Modes, Information, Next Active Input, Power
	User-Assignable Function Buttons	Yes, 3
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)

Connector Types	**DisplayPort™**	1 DisplayPort™ 1.2
	Mini- DisplayPort™	1 Mini DisplayPort™ 1.2
	HDMI	1 HDMI 2.0
	USB Type-C™	2, 1 upstream (rear) and 1 downstream (side)
	HDCP support	Yes, HDCP 1.4 for DisplayPort™ and HDCP 2.2 for HDMI
	Audio Output	1 Line out

USB Port Specifications	**USB Version**	3.0
	USB Hub	Yes
	Downstream Ports	3 USB-A downstream ports
	Fast Charging USB Ports	3 Ports
	Power Output Maximum	7.5W (BC1.2)

USB-Type C™ Port Specifications	**USB-Type C™ Version**	USB 3.1 Gen1 / 5 Gbps
	Downstream USB-Type C™ Ports	1 Port
	Upstream USB-Type C™ Ports	1 Port
	Video Support	Rear: USB-C™ Alt mode – DisplayPort™ 1.2
	Power Output	Rear: 5V/3A, 9V/3A, 10V/5A, 12V/5A 15V/4.33A, 20V/3.25A Side: 5V/1.5A; 5V/3A
	Power Output Maximum	Rear: 65W Max Side: 15W Max

Power & Operating Specs	**Power Supply**	Internal
	Input Power	100 - 240 VAC 50/60 Hz
	Power Consumption – Maximum	185 W
	Energy Saving/Standby Mode	0.5 W
	Power Consumption – Typical	70 W
	Power cable length	1,9 m (6.2 ft)

Special Features	**Picture-in-Picture, Picture-by-Picture**	Yes, 2 PIP/PBP
	Remote Manageability	No

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ENERGY STAR® Data	**Operational Mode at 100 VAC**	32.58 W
	Operational Mode at 115 VAC	32.65 W
	Operational Mode at 230 VAC	31.44 W
EU Energy Efficiency Class (EC1062)	**On-mode Power Consumption (EC 1062/2010)**	45W
	Annual Power Consumption (EC 1062/2010)	66 kWh
	Energy Efficiency Class (EC 1062/2010)	B
	Visible Screen Size	31,5"/80,0 cm Diagonal
Operating Conditions	**Operating Temperature - Celsius**	**5° to 35° C**
	Operating Temperature - Fahrenheit	41° to 95° F
	Non-operating Temperature - Celsius	**-20° to 60° C**
	Non-operating Temperature - Fahrenheit	-4° to 140°
	Operating Humidity	20% to 80% non-condensing
	Non-operating Humidity	5% to 95%
	Operating Altitude	**0 to 5,000 m** (16,404 ft)
	Non-operating Altitude	**0 to 12,192 m** (0 to 40,000 ft)

Environmental Features and Certifications	**Mercury-free LED display backlighting**	Yes, Mercury-free LED backlights
	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	WW application CE,CB,KC/KCC/ICE/TUV-S/ISO 9241-307/ EAC/UL/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/Energy Star/VCCI/FCC/BSMI/WEEE
	Microsoft WHQL Certification	Win 10, Win 8, Win 7
	ENERGY STAR® certified	Yes, ENERY STAR® 7
	EPEAT® Registered	EPEAT® Gold

NOTE: EPEAT® registered where applicable. EPEAT registration varies by country. See

http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party

option store for solar generator accessories at http://www.hp.com/go/options

	China Energy Label	CEL Grade 1
	TCO Certified	Yes
	SmartWay Transport Partnership - NA only	Yes (NA SKU)
Contains Recycled Plastics	**Contains Recycled Plastics in Back Cover**	0.35
	Contains Recycled Plastics in Base/Stand	0.35
	Contains Recycled Plastics in Other Parts	17.5%
	Recyclable Plastics	Back cover, Middle cover, VESA cover, Hinge cover, Base top cover, Base bottom cover, Column back cover, Column front cover
	Recyclable Packaging (Box, packing materials)	Carton, Paper Board, Corner Paper

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Unit Product/Package Specifications	**Product Dimensions (Unpacked with stand)**	
	Metric (W x D x H)	71.45 x 24.8 x 56.44 cm
	Imperial (W x D x H)	28.13 x 9.76 x 22.22 in
	Product Dimensions (Packed)	
	Metric (W x D x H)	83.3 x 32.5 x 51.5 cm
	Imperial (W x D x H)	32.8 x 12.8 x 20.3 in
	Display Head Dimensions (Unpacked without stand)	
	Metric (W x D x H)	71.45 x 4.45 x 41.09 cm
	Imperial (W x D x H)	29.16 x 1.752 x 16.18 in
	Base Area Footprint	
	Metric (W x D x H)	300 x 248 mm
	Imperial (W x D x H)	11.81 x 9.764 in
	Product Weight (Unpacked with stand)	
	Metric	12.16 kg
	Imperial	26.81 lb
	Product Weight (Packed)	
	Metric	15.28 kg
	Imperial	33.69 lb
	Product Weight (Head Only)	
	Metric	7.59 kg
	Imperial	16.733 lb
Pallet Information	**Pallet Dimensions**	
	Metric (L x W x H)	985 x 840 x 120 mm / 1310 x 840 x 120 mm
	Imperial (L x W x H)	38.8 x 33.1 x 4.7 in / 51.6 x 33.1 x 4.7 in
	Pallet Total Weight	
	Metric	198.9 kg / 263.5kg
	Imperial	438.1 lbs / 580.4 lbs
	Pallet Layers	4
	Pallet Product per Layer	3 / 4
	Total Products per Pallet	12 / 16
	Container Load, 20-Foot	196 units
	Container Load, 40-Foot	392 units
	Container Load, 40-Foot HighQ	392 units
Options[1]	**HP B500 PC Mounting Bracket**	2DW52AA
	HP UHD USB Graphics Adapter	N2U81AA
	HP Business PC Security Lock v2 Kit	N3R93AA
Software Included	**Software included**	HP Display Assistant
	What's in the box?	AC power cord (1.9m) 6.2 ft
		USB C-to-A data cable (1.8m)
		DP Cable (1.8m)
Accessories Included		
	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.

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Other	**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.
Service and Warranty	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties.[2]	

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1. Sold separately. See product QuickSpecs for exact device and display compatibility.
2. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit http://www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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Change Log	
V1	