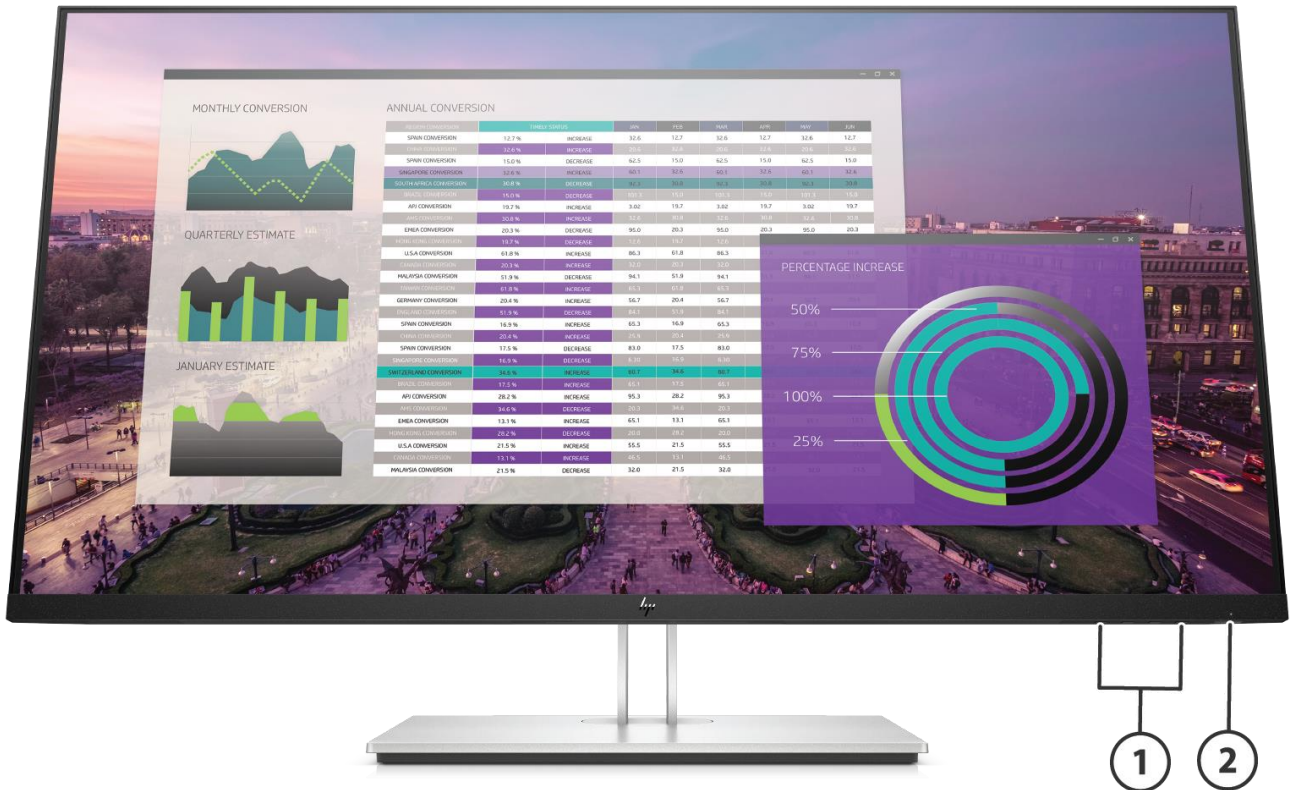*Technical Specifications*

HP EliteDisplay E324q 31.5-inch QHD Monitor

Front

1. Function Buttons
2. Power Button

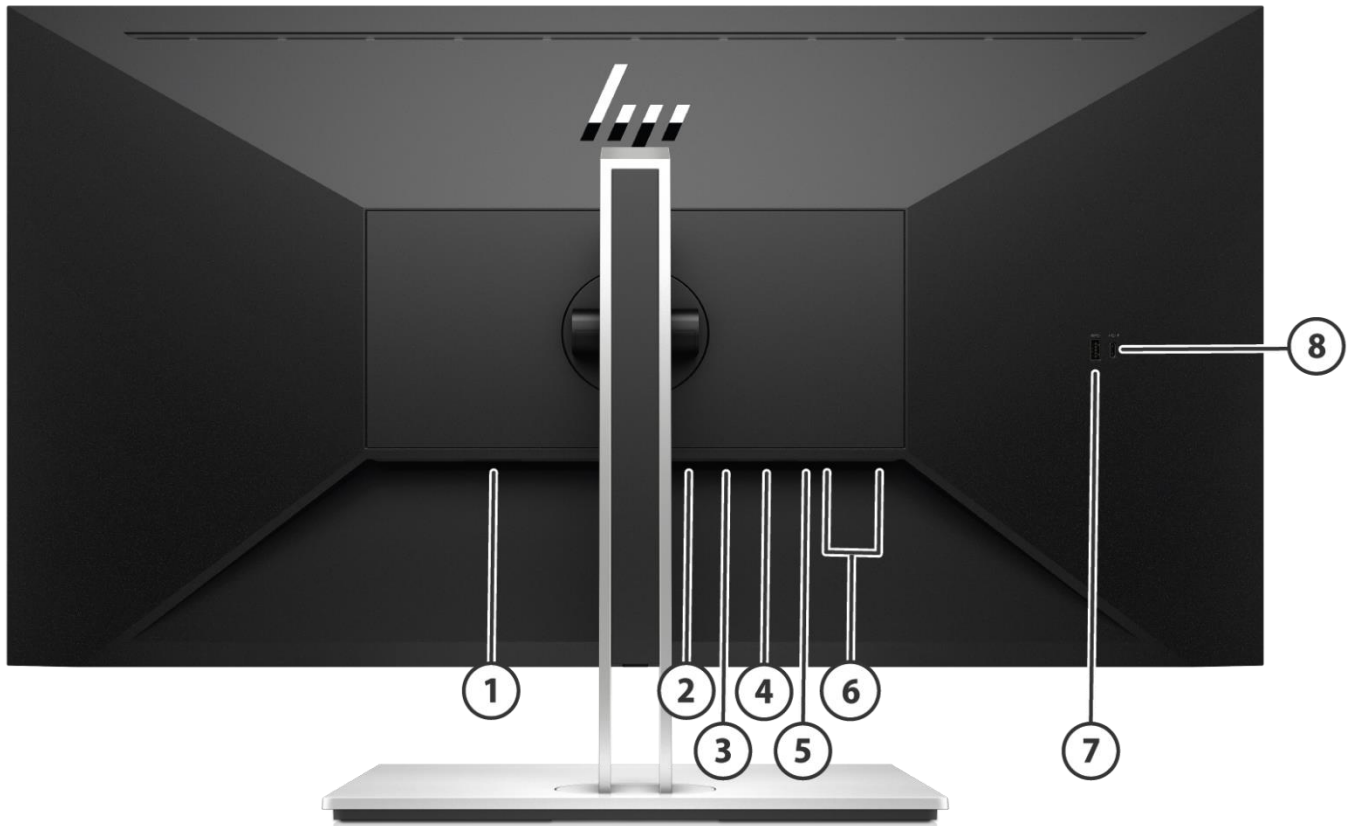*Technical Specifications*

HP EliteDisplay E324q 31.5-inch QHD Monitor

Back

1.	Power Connector	**5.**	USB Type-B™
2.	HDMI Port	**6.**	USB Type-A™
3.	DisplayPort™	**7.**	USB Type-A™
4.	USB Type-C™ Supporting DisplayPort™ Alternate Mode	**8.**	USB Type-C™ Supporting Data Only

Technical Specifications

Model: 5DP31AA

Panel Specifications	**Display Size (Diagonal)**	31.5-in
	Display Panel Type	VA
	Micro-Edge Bezel	Yes, 3-sided
	Curved Panel	N/A
	Native Resolution/Timing	2560 x 1440 @ 60 Hz
	Native Resolution Note	DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution
	Panel Bit Depth	8-bit
	Aspect Ratio	16:9
	Brightness - Typical	350 nits
	Static Contrast Ratio - Typical	3000:1
	Static Contrast Ratio - Minimum	2000:1
	Dynamic Contrast Ratio (DCR)	5,000,000:1
	Flicker Free	Yes
	Pixel Pitch	0.2724 x 0.2724 mm
	Pixels Per Inch (PPI)	93.24
	Backlight Lamp Life (to half brightness - in hours)	30k minimum
	Anti-Glare Panel	Yes
	Response Time - Typical	7ms Gray to Gray
	Horizontal Viewing Angle (typical CR>10)	178°
	Vertical Viewing Angle (typical CR>10)	178°
	Panel Active Area (w x h)	697.344 x 392.256 mm
	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 800 @ 60 Hz
		1280 x 1024 @ 60 Hz
		1440 x 900 @ 60 Hz
		1600 x 900 @60HZ
		1600 x 1200@60HZ
		1680x1050 @ 60Hz
		1920 x 1080 @ 60 Hz
		1920 x 1200@60HZ
		2560 x 1440 @ 60 Hz
	Maximum Resolution	2560 x 1440 @ 60 Hz
	Recommended Resolution	2560 x 1440 @ 60 Hz
	Vertical Scan Range	50-60 Hz
	Horizontal Scan Range	30-90 Hz
	Default Color Temperature	Standard (6500K)
	Maximum Pixel Clock Speed	250 MHz
Color Gamut Coverage	**NTSC**	72%
Color Management	**Factory Color Calibrated**	Warm/Neutral/Cool/Low Blue Light/Reading/Night
	Factory Color Presets	Neutral
	Color Space / Subsampling Support	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	Default Color Temperature	Natural
	Low Blue Light Modes	Yes

Technical Specifications

	RGB Channel Adjust	Yes, RGB Gain
Monitor Specifications	Exterior Color of Monitor Bezel and Stand	Sparking Black and Pike Silver
	Plug & Play	Yes
	Tilt	Yes -5° to +20°
	Swivel	Yes -30 to +30
	Pivot	Yes
	Height Adjustment Range	Yes, 150mm
	VESA Mounting	Yes, 100 mm with integrated mount or with included bracket
	Security Lock Ready	Yes
	Detachable Base	Yes, ships detached
	Warranty	3/3/3
On Screen Display (OSD)	On Screen Display User Controls	Brightness, Contrast, Color, Image, Input, Power, Menu, Management, USB Host, Information, Exit
	User Programmable Modes	Yes, 10
	Monitor Control Buttons or Switches	Power, Menu/OK, Minus ("-"), Plus ("+"), Exit("X")/Return
	User-Assignable Function Buttons	Yes, 3 (7 options)
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Connector Types	DisplayPort™	1, DisplayPort™ 1.2
	HDMI	1, HDMI 1.4
	USB Type-C™	1, USB-C™ supporting Alt Mode (DisplayPort™ 1.2)
	HDCP support	Yes, (DisplayPort and HDMI)
USB Port Specifications	USB Version	3.1
	USB Hub	Yes
	Downstream Ports	3
	Upstream Ports	1 USB-B
	Fast Charging USB Ports	Yes, with dynamic power management
USB-Type C™ Port Specifications	Downstream USB-Type C™ Ports	1
	Upstream USB-Type C™ Ports	1
	Video Support	Yes
	Power Output	15 W
	Power Output Maximum	15 W
Power and Operating Specs	Power Supply	Internal
	Power Source	100 to 240 VAC
	Power Consumption - Maximum	95 W
	Energy Saving/Standby Mode	0.3 W
	Power Consumption - Typical	55 W
	Power cable length	1.9 m
Energy Star Data	Operational Mode at 100 VAC	24.95
	Operational Mode at 115 VAC	24.81
	Operational Mode at 230 VAC	24.83
EU Energy Efficiency Class (EC1062)	On-mode Power Consumption (EC 1062/2010)	37 W
	Annual Power Consumption (EC 1062/2010)	55 W

Technical Specifications

	Energy Efficiency Class (EC 1062/2010)	A
	Visible Screen Size	31.5"
Operating Conditions	**Operating Temperature - Celsius**	5°C ~ 35°C
	Operating Temperature - Fahrenheit	41°C~95°F
	Non-operating Temperature - Celsius	−20° ~ 60°C
	Non-operating Temperature - Fahrenheit	29° ~ 140°F
	Operating Humidity	20% - 80% (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.)
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	WW application CE,CB,KC/KCC/ICE/TUV-S/ISO 9241-307/ EAC/UL/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Energy Star/ISC/VCCI/FCC/BSMI/WEEE/GS/Low Blue Light/BIS
	Microsoft WHQL Certification	Win 10, Win 8, Win 7
	ENERGY STAR® Qualified	Yes, ENERY STAR® 7
	EPEAT® 2019	EPEAT® Silver
		Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.
	China Energy Label	CEL Grade 1
	TCO Certified Edge	Yes
	TCO Certified	Yes
	SmartWay Transport Partnership - NA only	Yes (NA SKU)
Contains Recycled Plastics	**Contains Recycled Plastics in Back Cover**	0.85
	Contains Recycled Plastics in Base/Stand	0.85
	Contains Recycled Plastics in Other Parts	Yes
	Recyclable Plastics	WAM ABS GA85
	Recyclable Packaging (Box, packing materials)	100% recyclable fiber packaging

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

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

Technical Specifications

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

*DisplayPort 1.2 or HDMI 1.4 required to drive panel at its native resolution

		Metric	Imperial
Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	71.4x24.04x43.94 cm 71.4x24.04x58.94 cm	28.1x9.46x17.3 in 28.1x9.46x23.2 in
	Product Dimensions (Packed) (W x D x H)	82.8 x 52.8 x 22.8 cm	32.60 x 20.79 x 8.98 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	71.4 x 4.75 x 41.94 cm	28.1 x 1.87 x 16.51 in
	Product Weight (Unpacked with stand) (W x D x H)	10.3 kg	22.71 lb
	Product Weight (Packed) (W x D x H)	16.1 kg	35.5 lb
	Product Weight (Head only) (W x D x H)	6.28 kg	13.85 lb
	Base Area Footprint	300.23 x 240.43 mm	11.81 x 9.46 in
	Bezel Measurements	Bottom 16.4 mm	Bottom 0.646 in
Pallet Information	**Pallet Dimensions** (W x D x H)	1150 x 840 x 2241mm	45.28 x 33.07 x 88.23 in
	Pallet Weight (W x D x H)	343 kg	755.5 lbs
	Pallet Layers	4	
	Pallet Product per Layer	5	
	Total Products per Pallet	20	
	Container Load, 20-Foot	280 units	
	Container Load, 40-Foot	560 units	
	Container Load, 40-Foot HighQ	560 units	

Recommended Accessories*	**Description**	**Part Number**
	HP B300 PC Mounting Bracket	2DW53AA
	HP S101 Speaker Bar	5UU40AA
	HP Quick Release Bracket	EM870AA
	HP Single Monitor Arm	BT861AA
	HP Business PC Security Lock v3 Kit	3XJ17AA

*Sold separately and availability may vary by country

Software included	HP Display Assistant

What's in the box?	AC power cord (1.9m) 6.2 ft USB B-to-A data cable (1.8m) USB C-to-C data cable (1.8m) DP Cable (1.8m) HDMI Cable (1.8m)

Other	**User Guide Languages**	English, S. Chinese, T. Chinese, Bahasa Indonesia, Japanese, Korean, French, Spanish, B. Portuguese, Danish, Dutch, Russian, Slovak, Turkish, Arabic, Lithuanian, Romanian, Finnish, German, Hebrew, Italian, Norwegian, Swedish, Czech, Greek, Hungarian, Polish, Portuguese, Iberian, Kazakh, Slovenian, Ukrainian, Bulgarian, Latvian

QuickSpecs

Technical Specifications

Warranty Languages	English, S. Chinese, T. Chinese, Bahasa Indonesia, Japanese, Korean, French, Spanish, B. Portuguese, Danish, Dutch, Russian, Slovak, Turkish, Arabic, Lithuanian, Romanian, Finnish, German, Hebrew, Italian, Norwegian, Swedish, Czech, Greek, Hungarian, Polish, Portuguese, Iberian, Kazakh, Slovenian, Ukrainian, Bulgarian, Latvian

Dynamic Contrast Ratios* during video playback only, depending on series of frames or time duration.
All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Environmental Data	Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • TCO or TCO Certified Edge • EPEAT® Silver registered in the United States. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
	Normal Operation	24.81 W	24.83 W	24.95 W
	Sleep	1.12 W	1.12 W	1.12 W
	Off	0.10 W	0.12 W	0.10 W
	Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
	Normal Operation	84.9 BTU/hr	84.9 BTU/hr	84.3 BTU/hr
	Sleep	3.8 BTU/hr	3.8 BTU/hr	3.8 BTU/hr
	Off	0.3 BTU/hr	0.4 BTU/hr	0.3 BTU/hr
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
	Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC. • This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. • This product is in compliance with+ California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). • This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the Silver level, see http://www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043. • This product contains 83.1% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1. • This product is 98.6% recycle-able when properly disposed of at end of life.		
	Packaging Materials	**External:** PAPER/Corrugated		922 g
		Internal: PLASTIC/EPS (Expanded Polystyrene)		35 g

Technical Specifications

		PLASTIC/Polyethylene low density	522 g
		Wood	12000 g
	RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.	
	Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html): • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • Bis(2-Ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP) • Formaldehyde • Halogenated Diphenyl Methanes • Lead carbonates and sulfates • Lead and Lead compounds • Mercuric Oxide Batteries • Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. • Ozone Depleting Substances • Polybrominated Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT) • Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.	

Technical Specifications

		• Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
	Packaging	HP follows these guidelines to decrease the environmental impact of product packaging: • Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. • Eliminate the use of ozone-depleting substances (ODS) in packaging materials. • Design packaging materials for ease of disassembly. • Maximize the use of post-consumer recycled content materials in packaging materials. • Use readily recyclable packaging materials such as paper and corrugated materials. • Reduce size and weight of packages to improve transportation fuel efficiency. • Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
	End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

	HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:
		
		Global Citizenship Report
		    http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
		Eco-label certifications
		    http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html
		ISO 14001 certificates:
		    http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842
		    and
		    http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Technical Specifications

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Technical Specifications

Change Log			
June 14, 2019	V1 to V2	Added	Environmental Section
June 19, 2019	V2 to V3	Updated	Brightness
July 1, 2019	V3 to V4	Updated	Energy Star Data
December 6, 2019	V4 to V5	Updated	Height Adjustment Range