

Technical Specifications

HP EliteDisplay E223d 21.5-inch Docking Monitor



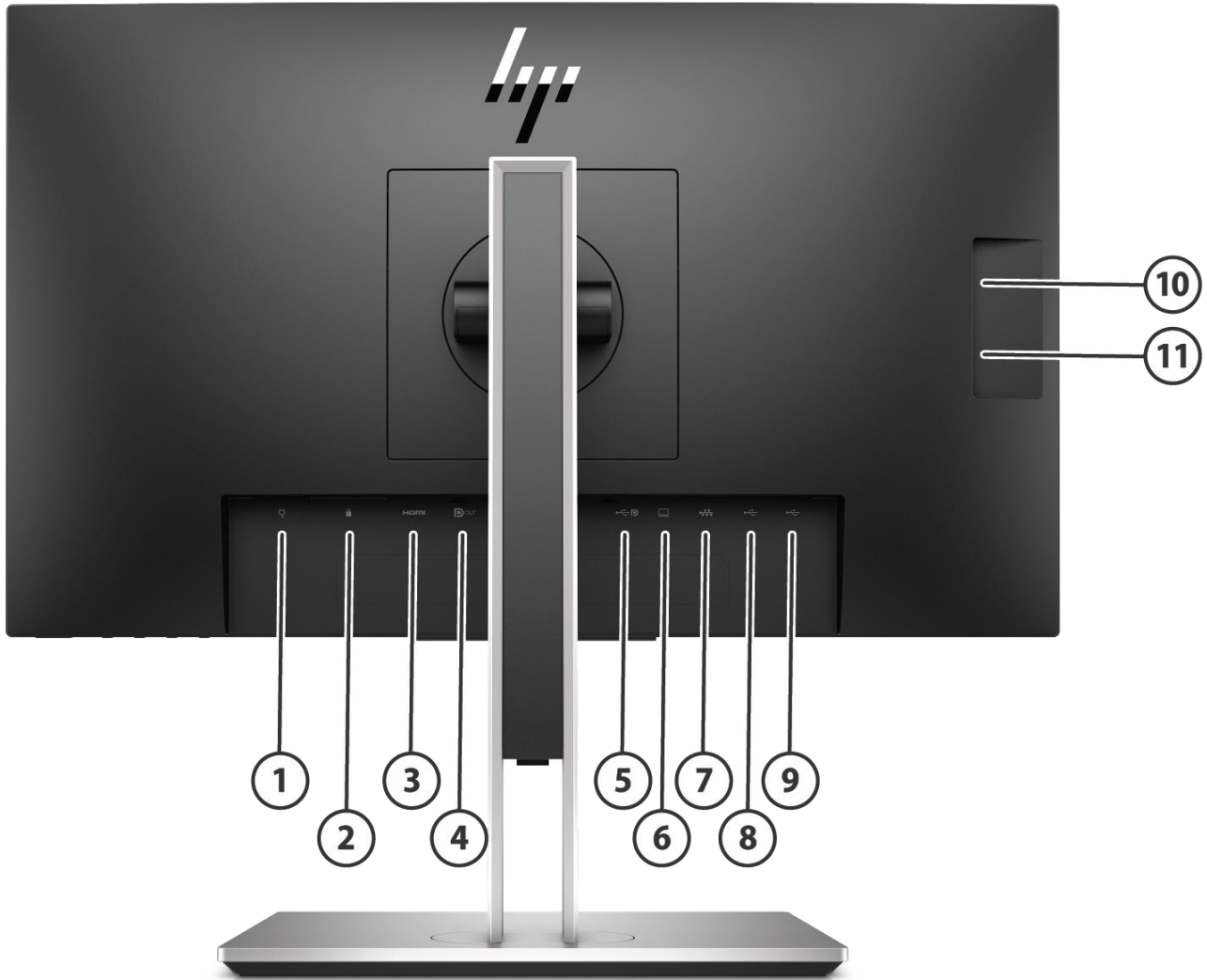
Front

1. Function Buttons

2. Power Button

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1. DC Power IN Connector
2. Security Cable Slot
3. HDMI Port
4. DisplayPort™ 1.2 OUT Port
5. USB Type-C™ Port
6. USB Type-B™ Port

Back

7. Network Jack
8. USB Type-A port
9. USB Type-A Port
10. USB Type-A Ports (2)
11. Headset Port

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Models: 5VT82A8/5VT82U9/5VT82AA/5VT82A7/5VT82AS/5VT82AT

Panel Specifications	Display Size (Diagonal)	21.5 in
	Display Panel Type	IPS w/LED backlight
	Micro-Edge Bezel	Yes, 3-sided
	Native Resolution*	1920 x 1080 @60 Hz
	Native Resolution Note	The video card of the connected PC must be capable of supporting 1920 x 1080 at 60 Hz and include 1 HDMI or 1DP outputs or USB TYPC DP ALT MODE to drive the monitor at the Preferred Mode.
	Panel Bit Depth	8 Bit (6 Bit + A-FRC)
	Aspect Ratio	16:9
	Brightness Typical	250 cd/m ²
	Static Contrast Ratio - Typical	1000:1
	Static Contrast Ratio - Minimum	700:1
	Dynamic Contrast Ratio (DCR)	5,000,000:1
	Pixel Pitch	0.27495 x 0.27495 mm
	Pixels Per Inch (PPI)	102.46
	Backlight Lamp Life (to half brightness - in hours)	30k minimum
	Anti-Glare Panel	Yes
	Response Time - Typical	5ms (GTG)
	Horizontal Viewing Angle (typical CR>10)	178°
	Vertical Viewing Angle (typical CR>10)	178°
	Panel Active Area (w x h)	476.064(H)x 267.786(V)
	Preset Graphic Modes/Supported Resolutions	640×480 @59.940Hz 720×400 @70.087Hz 800×600 @60.317Hz 1024×768 @60.004Hz 1280×720 @60Hz 1280×800 @59.810Hz 1280×1024 @60.020Hz 1440×900 @59.887Hz 1600×900 @60Hz 1680×1050 @59.954Hz 1920×1080 @60Hz
	Maximum Resolution	1920×1080 @ 60HZ
	Recommended Resolution	1920×1080 @ 60HZ
	Vertical Scan Range	50 - 60 Hz
	Horizontal Scan Range	30 - 80 kHz
	Default Color Temperature	Neutral (6500 K)
	Maximum Pixel Clock Speed	170 MHz
	<i>*DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution</i>	

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

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Color Gamut Coverage	NTSC sRGB	72% >94% sRGB
Color Management	Color Space / Subsampling Support Default Color Temperature Low Blue Light Modes RGB Channel Adjust	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 Neutral (6500 K) Yes Yes, Gain
Monitor Specifications	Exterior Color of Monitor Bezel and Stand Plug & Play Tilt Swivel Pivot Height Adjustment Range VESA Mounting Security Lock Ready Detachable Base Warranty	Asteroid in bezel and bucket frame and black in stand Yes -5 TO +23 DEGREES Yes, 45° Pivot (CW & counter CW). Detent at 0 degrees Yes, 150 mm Yes, 100 mm with integrated mount or with included bracket Yes Yes, ships detached 3-3-0 NA/TW/EMEA/ANZ/JPN/VIET/THAI 3-3-3 INDIA/PRC
On Screen Display (OSD)	On Screen Display User Controls User Programmable Modes Monitor Control Buttons or Switches User-Assignable Function Buttons Languages	Brightness, Contrast, Color Control, Input Control, Image Control, Power control, Menu Control, Management, USB Host Selection, Information, EXIT Yes, 10 Menu, Minus ("-")/Information, Plus ("+")/Viewing Modes, Back/Next Active Input, Power Yes, 3 (8 options) 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Connector Types	DisplayPort™ HDMI USB Type-C™ HDCP support Audio Output Ethernet	1 DisplayPort 1.2 out 1 HDMI 1.4 1 USB3.1 Type C upstream ports Yes, (USB-C Video and HDMI) 1, Analog Yes
USB Port Specifications	USB Version USB Hub Downstream Ports Upstream Ports Fast Charging USB Ports Power Output Maximum	3.1 Yes 4 Ports 1 USB-C 1 Port (Upper in side BD) Fast Charging: 7.5W; Standard 4.5W
USB-Type C™ Port Specifications	USB-Type C™ Version Upstream USB-Type C™ Ports Video Support Power Output Power Output Maximum	USB 3.1 Gen1 / 5 G bps 1 Port USB-C Alt mode – DisplayPort™ 1.2 5V/9V/10V/12V/15V/20V 65W Max
Special Features	Remote Manageability User Presets	No Yes

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Power & Operating Specs	Power Supply Power Source Power Consumption - Maximum Energy Saving/Standby Mode Power Consumption - Typical Power cable length	External 100 – 240 VAC 50/60 Hz 138 W (Without DC power out, with power delivery) 0.5W 35 W 1830mm: 398062-001,150304-008,130627-008,121565-001,285052-001,100613-008,286496-001,109197-008,653326-001,438723-001,393312-001 2500mm: 187487-001,100661-001,401328-001 1800mm: 100614-009 2000mm: 403440-001
EU Energy Efficiency Class (EC1062)	Visible Screen Size	21,5"/55cm
Operating Conditions	Operating Temperature - Celsius Operating Temperature - Fahrenheit Non-operating Temperature - Celsius Non-operating Temperature - Fahrenheit Operating Humidity Non-operating Humidity Operating Altitude Non-operating Altitude	5° - 35°C 41° - 95°F -20° - 60°C -4° - 140°F 20% - 80% (non-condensing) 5% - 95% 0 - 5,000 m (16,400 ft.) 0 - 12.192 m (40,000 ft.)
Environmental Features and Certifications	Mercury-free LED display backlighting Arsenic-Free Display Glass Low Halogen** Agency Approvals and Certifications Microsoft WHQL Certification SmartWay Transport Partnership - NA only	Yes, Mercury-free LED backlights Yes GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR, PVC) WW application CE,CB,KC/KCC/NOM/ICE/ISO 9241-307/ EAC/TUV-GS/ctUVus/PSB/CCC/CEL/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE/BIS Win 10, Win 8.1, Win 7 Yes (NA SKU)
<p>**External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.</p>		
<p>Note: DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.</p>		
Contains Recycled Plastics	Contains Recycled Plastics in Back Cover Contains Recycled Plastics in Base/Stand Contains Recycled Plastics in Other Parts Recyclable Packaging (Box, packing materials) Recyclable Plastics Recyclable Packaging (Box, packing materials)	0.85 0.85 85% (Deco, Middle Frame) 0% recyclable Plastics content by total weight of packing materials All All

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		Metric	Imperial	
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	48.83 x 20.5 x 44.865 cm	19.22 x 8.07 x 17.66 in	
	Product Dimensions (Packed) (W x D x H)	58.9 x 27.3 x 36.5 cm	23.19 x 10.75 x 14.37 in	
	Display Head Dimensions (Unpacked without stand) (W x D x H)	48.83 x 4.483 x 29.33 cm	19.22 x 1.765 x 11.55 in	
	Base Area Footprint (w x d mm)	236.99 x 205.00 mm	9.33 x 8.07 in	
	Bezel Measurements	Top	1.36 mm	0.0535 in
		Side	1.36 mm	0.0535 in
		Bottom	18.4 mm	0.724 in
	Product Weight (Unpacked with stand)	5.08 kg	11.2 lb	
	Product Weight (Packed)	8.06 kg	17.77 lb	
	Product Weight (Head Only)	2.75 kg	6.06 lb	
Pallet Information	Pallet Dimensions (L x W x H)	G-1: 1190L x 1100W x 125H mm G-2: 1100L x 620W x 125H mm	G-1: 46.85L x 43.31W x 4.92H inch G-2: 43.31L x 24.41W x 4.92H inch	
	Pallet Layers	20/40" Wooden- 5 layers		
	Pallet Product per Layer	G-1: 8 sets G-2: 4 sets		
	Total Products per Pallet	G-1: 40 sets G-2: 20 sets		
	Container Load, 20-Foot	360 units		
	Container Load, 40-Foot Container Load, 40-Foot HighQ	800 units 960 units		
Software Included	Install Monitor INF/ICM Software Install HP Display Assistant			
Recommended Accessories*	Description	Part Number		
	HP B300 PC Mounting Bracket	2DW53AA		
	HP Quick Release Bracket 2	6KD15AA		
	HP S101 Speaker Bar	5UU40AA		
	HP Hot Desk Stand	W2Z73AA		
	HP Executive 15.6 Backpack	6KD07AA		
	HP Sure Key Cable Lock	6UW42AA		
<i>*Sold separately and availability may vary by country</i>				
What's in the box?	AC power cord (1.83m) 6.0 ft USB C-C cable (1.8m) 5.9 ft USB A-B Cable (1.8m) 5.9 ft HDMI Cable External power supplier (150W) QSP Product notice			
NOTE: Included cables may vary by country.				
User Guide and Warranty Languages	User Guide Languages	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian,		

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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.

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: <ul style="list-style-type: none"> IT ECO declaration EPEAT® N/A registered in the United States. See http://www.epeat.net for registration status in your country. US Federal Energy Management Program (FEMP) 		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation	17 W	17 W	N/A
	Sleep	0.33 W	0.35 W	N/A
	Off	0.28 W	0.31 W	N/A
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation	58 BTU/hr	58 BTU/hr	N/A
	Sleep	1 BTU/hr	1 BTU/hr	N/A
	Off	1 BTU/hr	1 BTU/hr	N/A
		*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
	Additional Information	<ul style="list-style-type: none"> 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 (EPEAT) standard at the <N/A> 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 44.5% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1. This product is 98.9% recycle-able when properly disposed of at end of life. 		
	Packaging Materials	External:	PAPER/Corrugated	923 g
			PAPER/Paper	280 g
			COMPOSITE/paper/carton+plastic	3 g

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	Internal:	PLASTIC/Other	1 g
		PLASTIC/Polyethylene high density - HDPE	16 g
		PLASTIC/EPS (Expanded Polystyrene)	537 g
		PLASTIC/Polyethylene low density- LDPE	9 g
RoHS Compliance	<p>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.</p> <p>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.</p> <p>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.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.</p>		
Material Usage	<p>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):</p> <ul style="list-style-type: none"> • 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) 		

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		<ul style="list-style-type: none"> • 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. • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
	<p>Packaging</p>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • 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.
	<p>End-of-life Management and Recycling</p>	<p>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.</p> <p>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</p>

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

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Summary

Change Log	
V1 to V2	