Technical Specifications

HP E24u G4 FHD USB-C Monitor

Front

1. OSD Buttons
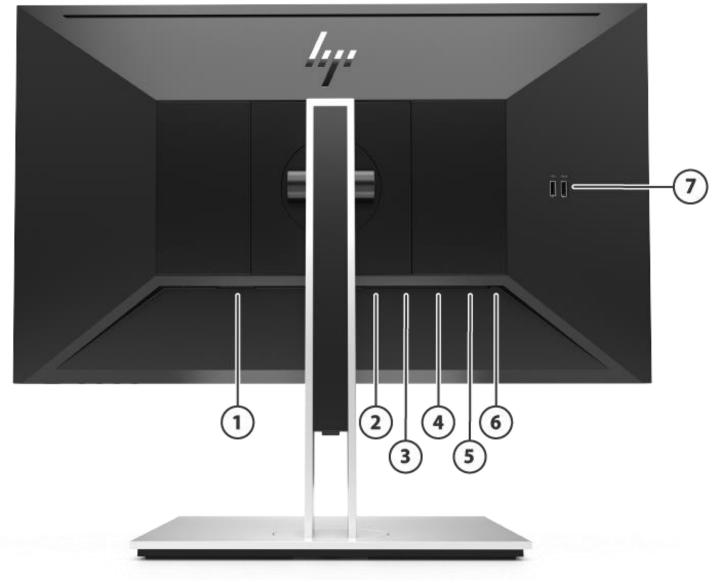2. Power Button

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Back

1. Power Connector	**5.** DisplayPort OUT Connector
2. HDMI Port	**6.** USB Ports (2) Downstream
3. DisplayPort IN Connector	**7.** USB Ports (2) Downstream
4. USB Type-C Port (Upstream)	

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Models: 189T0AA

Panel Specifications	Display Size (Diagonal)	23.8"
	Panel Technology	IPS
	Curved Panel	No
	Refresh Rate	60 Hz
	Resolution	1920 x 1080 @ 60Hz
	Panel Bit Depth	8 bit (6 bit+FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	250 nits
	Contrast Ratio (Static)	1,000:1
	Dynamic Contrast Ratio	5000000:1
	Flicker Free	Yes
	Pixel Pitch	0.274(H) x 0.274(V)
	Pixels Per Inch (Ppi)	93 PPI
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30000 hours
	Screen Treatment	Anti-glare
	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)	527.04 mm (W) x 296.46 mm (H)

NOTE: Performance Specifications Represent The Typical Specifications Provided By HP's Component Manufacturers; Actual Performance May Vary Either Higher Or Lower.

Color	NTSC	72%

Color Management	Color Space/ Subsampling Support	RGB 4:4:4
	Rgb Channel Adjust	Yes, Setup and Gain, downstream from color preset
	Default Color Temperature	Neutral(6500K)

Monitor Specifications	Bezel	3-sided Micro Edge
	Color	Black head, Silver stand
	Tilt	-5 to +23°
	Swivel	±45°
	Pivot	±90
	Height Adjust Range	150mm
	Vesa Mounting	100mm x 100mm
	Security Lock Ready	Standard Security Lock Slot
	Detachable Stand	Yes
	Warranty	Based on region
	Low Blue Light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	Display Software	HP Display Center
	On Screen Display User Controls	Brightness+, Color, Image, Input, Power, Menu, Management, Information
	Native Resolution	Full HD (1920 x 1080)

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	Maximum Resolution	1920×1080 @ 60Hz
	Preset Graphic Modes/Supported Resolutions	640 x 480 @ 60Hz,
		720 x 400 @ 70Hz,
		800 x 600 @6 0Hz,
		1024 x 768 @ 60Hz,
		1280 x 720 @ 60Hz,
		1280 x 800 @ 60Hz,
		1280 x 1024 @ 60Hz,
		1440 x 900 @6 0Hz,
		1600 x 900 @ 60Hz,
		1680 x 1050 @ 60Hz,
		1920 x 1080 @ 60Hz
	Minimum Vertical Scan Rate	50 Hz
	Maximum Vertical Scan Rate	60 Hz
	Minimum Horizontal Scan Rate	30.0 kHz
	Maximum Horizontal Scan Rate	80.0 kHz
	Maximum Pixel Clock	170 MHz
	User-Assignable Function Buttons	4
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Connector Types	**DisplayPort™**	1 DisplayPort™ 1.2
	DisplayPort™ Out	1 DisplayPort™ 1.2-out
	HDMI	1 HDMI 1.4
	HDCP	Yes, DisplayPort and HDMI
	USB Type-C™ Video Input	1 USB Type-C™ (DP Alt Mode 1.2, power delivery up to 65W)
	USB- A	4 USB-A 3.2 Gen 1
Special Features	**Remote Manageability**	Yes
	User Updateable Firmware	Yes
	Single Power On	Yes
Power & Operating Specs	**Power Supply**	Internal
	Power Source	100 – 240 VAC 50/60 Hz
	Power Consumption- Max	131
	Energy Saving/Stand By Mode	0.5
	Power Consumption- Typical	22
EU ENERGY EFFICIENCY CLASS (ERP lot-5)	**On-mode Power Consumption**	13.7
	Annual Power Consumption	21
	Energy Efficiency Class	D
ENERGY STAR Data	**Operational Mode at 100 VAC**	13.81
	Operational Mode at 115 VAC	13.83
	Operational Mode at 230 VAC	13.94
Operating Conditions	**Operating Temperature - Celsius**	5° – 35°C

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	Operating Temperature - Fahrenheit	41° – 95°F
	Non-Operating Temperature - Celsius	−20° – 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.)
Environmental Features and Certifications	**Mercury-free LED display backlighting**	Yes
	Arsenic-Free Display Glass	Yes
	Low Halogen	Yes
	Agency Approvals And Certifications	WW application CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/UL/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Energy Star/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE
	Microsoft WHQL Certification	Yes
	ENERGY STAR® Certified	Yes
	EPEAT® Registered*	Yes
	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**	85% recycled content by total weight
	Recyclable Packaging (Box, packing materials)	100% fiber packaging, cardboard

		Metric	**Imperial**
Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	53.94 x 20.7 x 49.49 cm	21.24 x 8.15 x 19.48 in
	Product Dimensions (Packed) (W x D x H)	61.1 x 39.2 x 22.3 cm	24.06 x 15.43 x 8.78 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	53.94 x 4.7 x 32.33 cm	21.24 x 1.85 x 12.73 in
	Base Area Footprint (w x d mm)	260 x 207 mm	10.24 x 8.15 in
	Bezel Measurements - Metric	Bottom：19.59 mm	Bottom：0.77 in
	Product Weight (Unpacked with stand)	6.3kg	13.89 lb
	Product Weight (Packed)	9.0kg	19.84 lb
	Product Weight (Head Only)	3.76 kg	8.27 lb

Software Included	HP Display Center
What's in the box?	AC power cord (1.9m) 6.2 ft USB-C cable (1.8m)

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	QSP DOC Kit	
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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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® • US Federal Energy Management Program (FEMP) • EPEAT® Silver registered in the United States. See http://www.epeat.net for registration status in your country. • TCO 8.0/ TCO Certified Edge • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label* •
	Sustainable Impact Specifications	• Ocean-bound plastic in (part(s)) • 82.4% post-consumer recycled plastic • External Power Supply 90% Efficiency • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable • Recycled Plastic cushions
	System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".

Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Sort idle)	13.83 W	13.94 W	13.8 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	0.33 W	0.33 W	0.33 W
Off	0.31 W	0.32 W	0.31 W

Note:
Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

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Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	43 BTU/hr	43 BTU/hr	43 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	N/A	N/A
Fixed Disk – Random writes	N/A	N/A
Optical Drive – Sequential reads	N/A	N/A

Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Additional Information	- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/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 Silver level, see http://www.epeat.net - Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. - This product is 82.4% recycle-able when properly disposed of at end of life.

Packaging Materials	External:	PAPER/paper	1678 g
		PAPER/paper	676 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	7 g
		PLASTIC/EPE (Expanded Polyethylene)	13 g
		PLASTIC/EPE (Expanded Polyethylene)	13
	The plastic packaging material contains at least 100% recycled content.		
	The corrugated paper packaging materials contains at least 90% recycled content.		

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	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. • Radioactive Substances

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		• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
	Packaging Usage	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	HP 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://www8.hp.com/us/en/hp-information/environment/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

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	footnotes	• Percentage of ocean-bound plastic contained in each component varies by product • Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. • External power supplies, WWAN modules, power cords, cables and peripherals excluded. • 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. • Fiber cushions made from 100% recycled wood fiber and organic materials. • Plastic cushions are made from >90% recycled plastic.

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Summary

Change Log

February 23, 2021	V1 to V2		Techspecs Updated
April 13, 2021	V2 to V3	Update	VESA Mounting Specs
May 26, 2021	V3 to V4	Add	Environmental Data
	V4 to V5		