Technical Specifications

HP Series 5 23.8 inch FHD Monitor – 524da



Front

1. Power Button

2. Power LED

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Back

1. Security cable slot
2. Power Connector for external power brick
3. Power light
4. Audio Input Port
5. Audio Output Port
6. VGA Port
7. HDMI 1.4 Port

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Model: B11W5AT

Panel Specifications	**Display Size (Diagonal)**	23.8" (60.5 cm)
	Viewable Diagonal Size	23.8" (60.5 cm)
	Panel Technology	IPS
	Curvature	Flat
	Max Refresh Rate	100 Hz
	Native Resolution	FHD (1920 x 1080)
	Panel Bit Depth	8 bit (6 bit + FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	300 nits
	Display Contrast Ratio (Static)	1500:1
	Display Contrast Ratio (Dynamic)	8000000:1 = 8M:1
	Flicker Free	Yes (TÜV certified)
	Pixel Pitch	0.2745 x 0.2745 mm
	Pixels Per Inch (PPI)	93 PPI
	Display Colors	Up to 16.7 million colors supported *Number of colors through A-FRC technology.
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30,000 hours
	Backlight Type	Edge-lit
	Screen Treatment	Anti-glare
	Hardness	3H
	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle (Typical Cr>10)	178°
	Vertical Viewing Angle (Typical Cr>10)	178°
	Panel Active Area Metric (W X H)	52.70 x 29.65 cm
	Panel Active Area Imperial (W X H)	20.75x11.67 in
	NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Color	**sRGB**	99%
Color Management	**Color Space**	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	RGB Channel Adjust	Yes, Gain
	Default Color Temperature	Standard (6500K)
Monitor Specifications	**Bezel Type**	3-sided borderless
	Color Of Stand	Metal Gray
	Color Of Head	Black
	Tilt	-5 to +25°
	Height Adjust Range	100 mm
	Vesa Mounting	Not VESA mount compatible
	Security Lock	Security lock-ready
	Detachable Stand	Yes

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	Warranty	AMS:3-3-0 APJ:3-3-0 except India, Korea, China, Japan 3-3-3 EMEA:3-3-0
	Low Blue Light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	Speaker Output Power	2 x 2 W
	Management Software	HP Client Management Script Library*, HP Display Center** * HP CMSL software agent must be running on a web server and host PC. Some limitations may apply to legacy monitors. HP CMSL is available for download on support.hp.com. **Host PC requires Windows 10 or higher. HP Display Center is available for download on the Microsoft store for Windows or support.hp.com for Windows and MacOS.
On Screen Display (OSD)	**On Screen Display**	Brightness+; Color; Image; Input; Audio; Power; Menu; Management; Information; Exit
	Native Resolution	FHD (1920 x 1080)* * HDMI 1.4 required to drive panel at its native resolution. The video card of the connected PC must be capable of supporting 1920x1080 at 60Hz (native) with 8-bit color using one HDMI or VGA.
	Maximum Resolution	1920 x 1080 @ 100 Hz
	Preset Graphic Modes/Supported Resolutions	PC Timing 640 x 480 @ 60Hz 720 x 400 @ 70Hz 800 x 600 @ 60Hz 1024 x 768 @ 60Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 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 @ 75 Hz 1920 x 1080 @ 100 Hz Video Timing 640x480p @ 60 Hz 720x480p @ 60 Hz 1280x720p @ 60 Hz 720x576p @ 50 Hz 1280x720p @ 50 Hz 1920x1080p @ 60 Hz 1920x1080p @ 50 Hz
	Minimum Vertical Scan Rate	48 Hz
	Maximum Vertical Scan Rate	100 Hz
	Minimum Horizontal Scan Rate	30 kHz
	Maximum Horizontal Scan Rate	113 kHz

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	Maximum Pixel Clock	300 MHz
	User Programmable Modes	Yes, 20
	User-Assignable Function Buttons	Yes, 3 (7 options)
	Audio	Audio Out; Audio In
	Languages	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
Connector Types	**HDMI**	1 HDMI 1.4
	HDCP	Yes, HDMI
	VGA	1 VGA
	Audio Port	1 x 3.5 mm Audio Jack (Audio Out); 1 x 3.5 mm Audio Jack (Audio In)
Special Features	**Switch**	Menu/OK, Minus("-"))/Brightness, Plus ("+")/Volume, Next Active Input, Power
	User Presets	20
Power & Operating Specs	**Power Supply**	External
	Power Source	100 – 240 VAC 50/60 Hz
	Power Consumption- Max	25 W
	Energy Saving/Stand By Mode	0.5 W
	Power Consumption - Typical	21 W
Energy Star Data	**Operational Mode at 100 VAC**	13.5 W
	Operational Mode at 115 VAC	13.5 W
	Operational Mode at 230 VAC	13.5 W
EU Energy Efficiency Class (ErP LOT-5)	**On-mode Power Consumption for Standard Dynamic Range (SDR)**	15 W
	ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)	
Operating Conditions	**Operating Temperature - Celsius**	5~35°C
	Operating Temperature - Fahrenheit	41– 95°F
	Non-Operating Temperature - Celsius	–40 – 65°C
	Non-Operating Temperature - Fahrenheit	–40 – 149°F
	Operating Humidity	20 – 80% Relative Humidity (non-condensing)
	Non-Operating Humidity	5~95%RH
	Operating Altitude Metric	0~5,000m (16,400 ft.)
	Non-operating Altitude Metric	0~12,192m (40,000 ft.)
	Operating Altitude Imperial	0~16,400ft
	Non-operating Altitude Imperial	0~40,000ft
Certifications and	**Low Halogen**	Yes*

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Compliances

* External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

	Agency Approvals and Certifications	WW application CB/CE/cTUVus/ TUV-Bauart/FCC/ICES/VCCI/CCC/CEL/CECP/BSMI/Energy star8.0/Australian-New Zealand MEPS/KCC/KC/KMEPS/ISO 9241-307/BIS/UAE ECAS/ UAE RoHS/EAC/CEC/NOM/Ukraine CoC/ Ukraine NSoC/ Ukraine energy/NRCS of South Africa/ South Africa energy/Erp/ Vietnam MEPS/ Flicker free/TCO/TGM/SEPA/ TUV HW Low Blue Light
	Microsoft WHQL Certification	Windows 11, Windows 10
	ENERGY STAR® Certified	Yes
	EPEAT® Registered	EPEAT® Gold in United States*
	Regions need to verify by country	*EPEAT® Gold **NOTE:** Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit 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 Materials	**Recycled Plastics**	90% post-consumer recycled plastic* 5% Ocean-Bound Plastic** *Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. ** Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.
	Recycled Metal	10%* * Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
	Recyclable Packaging (Box, packing materials)	100% of HP paper-based packaging is from recycled or certified sustainable sources* *HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included.

Metric	**Imperial**

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Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	53.58 x 20.22 x 45.98 cm	21.09 x 7.96 x 18.1 in
	Product Dimensions (Packed) (W x D x H)	61 x 12.1 x 39.9 cm	24.02 x 4.76 x 15.71 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	53.58 x 3.4 x 31.56 cm	21.09 x 1.33 x 12.42 in
	Base Area Footprint (w x d)	18.2 x 19.15 cm	7.17 x 7.54 in
	Bezel Measurements	Top: NA Sides: NA Bottom: 13.7 cm	Top: NA Sides: NA Bottom: 0.53 in
	Product Weight (Unpacked with stand)	3.52 kg	7.76 lb
	Product Weight (Packed)	5.93 kg	13.07 lb
	Product Weight (Head Only)	2.22 kg	4.89 lb
Pallet Information	**Pallet Dimensions** (L x W x H mm)	Slip sheet: 112.5 x 99.6 x 241.7 cm (40 HQ) Pallet: 114.5 x 99 x 213.5 cm (20 ft) Pallet: 114.5 x 99 x 213.5 cm (40 ft)	Slip sheet: 44.29 x 39.21 x 95.16 inch (40 HQ) Pallet: 45.08 x 39.98 x 84.06 inch (20 ft) Pallet: 45.08 x 39.98 x 84.06 inch (40 ft)
	Pallet Total Weight	Slip sheet: 11726.9 KG (40 HQ) Pallet: 4325 KG (20 ft) Pallet: 10442.4 KG (40 ft)	Slip sheet: 25857.8 lb (40 HQ) Pallet: 9536.6 lb (20 ft) Pallet: 23025.5 lb (40 ft)
	Pallet Layers	5 layers per wood pallet (GQ) 6 layers per slipsheet (HQ)	
	Pallet Product per Layer	14 units per layer (slip sheet & pallet)	
	Total Products per Pallet	70 units per wood pallet (GQ) 84 units per slipsheet (HQ)	
	Container Load, 20-Foot	Slip sheet: 0 sets Pallet: 700 sets	
	Container Load, 40-Foot	Slip sheet: 0 sets Pallet: 1680 sets	
	Container Load, 40-Foot HighQ	Slip sheet: 2016 sets Pallet: 0 sets	
What's in the box?	AC power cord (1.83m) 5.9ft (exclude EU, some APJ countries); HDMI 1.4 cable (1.8m) 5.9 ft; Quick Setup Poster; Power adaptor; 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 Gold registered in the United States. See http://www.epeat.net for for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*		
Sustainable Impact Specifications	• At least 85% post-consumer recycled plastic[2] • At least 5% recycled metal[3] • External Power Supply 90% Efficiency • Low Halogen[4] • 100% of HP paper-based packaging is from recycled or certified sustainable sources[5]		
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 (Short idle)	9.69 W	9.76 W	9.63 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	0.12 W	0.15 W	0.11 W
Off	0.08 W	0.11 W	0.07 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.		
Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	33 BTU/hr	33 BTU/hr	33 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	0.41 BTU/hr	0.51 BTU/hr	0.38 BTU/hr
Off	0.27 BTU/hr	0.38 BTU/hr	0.24 BTU/hr
	***NOTE:** Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		

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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 Gold level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product is 95.2% recycle-able when properly disposed of at end of life.		
Packaging Materials	**External:**	PAPER/Corrugated	1593 g
	Internal:	PLASTIC/Polyethylene low density - LDPE	3 g
		PLASTIC/Polyethylene Expanded - EPE	30 g
		PLASTIC/Polyethylene high density - HDPE	10 g
	The plastic packaging material contains at least 0% recycled content.		
	The corrugated paper packaging materials contains at least 95% recycled content.		
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 https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906): • 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 • 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: https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198 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: HP Product Disassembly Instruction Website. . 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.

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HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:
	• Sustainable Impact Report
	  ○ https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843
	• Eco-label certifications
	  ○ https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports-=document_type-type_energy_star,type_epeat,type_tcoISO
	• ISO 14001 certificates
	  ○ https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932

footnotes	2. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard. 3. Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams. 4. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. 5. HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from >90% recycled plastic.

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Summary

Change Log			
February 10, 2025	V1 to V2	Deleted	Zero Bright Dot Warranty
February 20, 2025	V2 to V3	Updated	Overview Section
	V3 to V4		