

### Technical Specifications

#### HP Series 5 Pro 23.8 inch FHD USB-C Monitor - 524pu

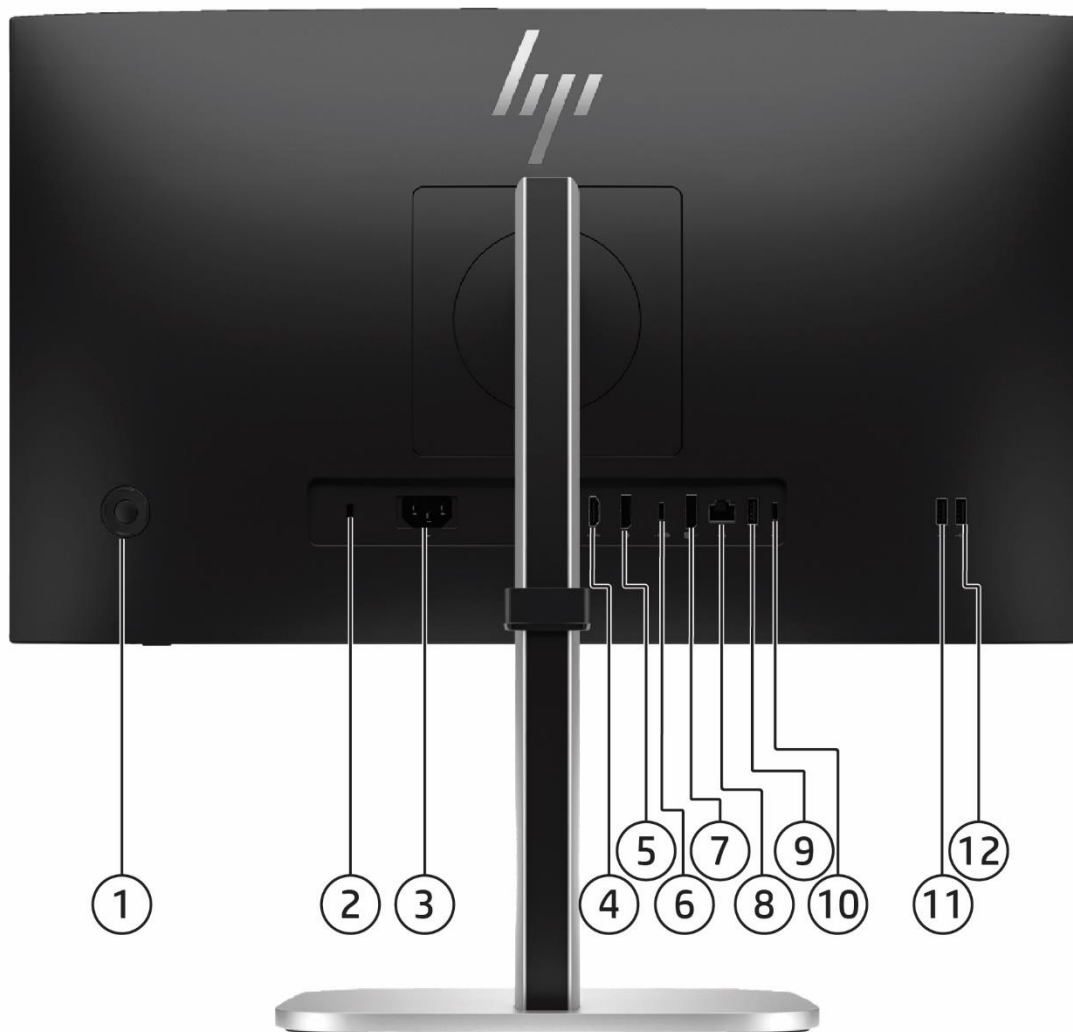


1. Power Button

**Front**  
2. Power LED

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#### Back

- |    |  |     |  |
|----|--|-----|--|
| 1. | Joypad OSD button  | 7.  | DisplayPort™ 1.4-out   |
| 2. | Security Cable Slot  | 8.  | RJ-45 (10/100/1000 Mbps) (Network Port)                                    |
| 3. | Power Connector  | 9.  | SuperSpeed USB Type-A 5Gbps signaling rate                                 |
| 4. | HDMI 2.0 Port  | 10. | SuperSpeed USB Type-C® 5Gbps signaling rate (Up to 15W USB Power Delivery) |
| 5. | DisplayPort™ 1.4   | 11. | SuperSpeed USB Type-A 5Gbps signaling rate                                 |
| 6. | SuperSpeed USB Type-C® 5Gbps signaling rate (up to 100W USB Power Delivery, Alt Mode DisplayPort™ 1.4) | 12. | SuperSpeed USB Type-A 5Gbps signaling rate (charging)                      |

Technical Specifications


Model: 9D9V7AA

Panel Specifications	Display Size (Diagonal)	23.8" (60.5 cm)
	Viewable Diagonal Size	23.8" (60.47 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)	350 nits
	Display Contrast Ratio (Static)	1500:1
	Display Contrast Ratio (Dynamic)	10000000:1 = 10M:1
	Flicker Free	Yes
	Pixel Pitch	0.2745 x 0.2745 mm
	Pixels Per Inch (PPI)	93 PPI
	Display Colors	Up to 16.7 million colors supported <a href="#">*Number of colors through A-FRC technology.</a>
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30,000 hours
	Backlight Type	Edge-lit, WLED
	Screen Treatment	Anti-glare
	Hardness	3H
Color	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle (Typical Cr>10)	178°
Color Management	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
Monitor Specifications	<b>NOTE:</b> Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
	sRGB	100%
	Color Space	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
Color Management	RGB Channel Adjust	Yes, Gain
	Default Color Temperature	Standard (6500K)
	Bezel Type	3-sided borderless
Monitor Specifications	Color Of Stand	Natural Silver and Jet Black
	Color Of Head	Jet Black
	Tilt	-5 to +23°
Monitor Specifications	Swivel	±45°
	Pivot	±90
	Height Adjust Range	150 mm
Monitor Specifications	Vesa Mounting	100mm x 100mm
	Security Lock	Security lock-ready

Technical Specifications

	<b>Detachable Stand</b>	Yes
	<b>Warranty</b>	3/3/0 for LA, NA, EMEA, APJ; (3/3/3 in select APJ Countries)
	<b>Low Blue Light</b>	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	<b>Zero Bright Dot Guarantee</b>	No
	<b>Management Software</b>	HP Client Management Script Library*, HP Display Center** <i>* The Client Management Script Library must be downloaded to the connected PC to run CMSL commands. Some limitations may apply to legacy displays. Visit <a href="https://support.hp.com">support.hp.com</a> to download HP CMSL.</i> <i>**Host PC requires Windows 10 or higher. HP Display Center is available for download on the Microsoft store for Windows or <a href="https://support.hp.com">support.hp.com</a> for Windows and MacOS.</i>
<b>On Screen Display (OSD)</b>	<b>On Screen Display</b>	Brightness+, Color, Input, Image, Power, Menu, Management, Information, Exit
	<b>Native Resolution</b>	FHD (1920 x 1080)
	<b>Maximum Resolution</b>	FHD (1920 x 1080 @ 100 Hz)
	<b>Preset Graphic Modes/Supported Resolutions</b>	720x400@70Hz
		640x480@60hz
		640x480@75hz
		800x600@60hz
		800x600@75hz
		1024x768@60Hz
		1024x768@75Hz
		1280x720@60Hz
		1280x800@60Hz
		1280x1024@60Hz
		1280x1024@75hz
		1440x900@60Hz
		1600x900@60Hz
		1680x1050@60Hz
		1920x1080@60Hz
		1920x1080@75Hz
		1920x1080@100Hz
	<b>Minimum Vertical Scan Rate</b>	50 Hz
	<b>Maximum Vertical Scan Rate</b>	100 Hz
	<b>Minimum Horizontal Scan Rate</b>	30 kHz
	<b>Maximum Horizontal Scan Rate</b>	115 kHz
	<b>Maximum Pixel Clock</b>	300 MHz
	<b>User Programmable Modes</b>	Yes, 17
	<b>User-Assignable Function Buttons</b>	Yes, 4 (6 options)
	<b>Languages</b>	English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian
<b>Connector Types</b>	<b>DisplayPort™</b>	1 DisplayPort™ 1.4
	<b>DisplayPort™ Out</b>	1 DisplayPort™ 1.4-out
	<b>HDMI</b>	1 HDMI 2.0

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	<b>HDCP</b>	Yes, DisplayPort™, HDMI and USB Type-C®
	<b>USB Type-C® Video Input &amp; Data Transfer</b>	1 SuperSpeed USB Type-C® 5Gbps signaling rate (up to 100W USB Power Delivery, Alt Mode DisplayPort™ 1.4)
	<b>USB Type-C® Data Transfer Only</b>	1 SuperSpeed USB Type-C® 5Gbps signaling rate (Up to 15W USB Power Delivery)
	<b>USB- A</b>	3 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging)
	<b>Ethernet</b>	1 RJ-45 (10/100/1000 Mbps)
<b>Special Features</b>	<b>Switch</b>	Monitor Power button Next Active Input / Up button Information / Down button Brightness / Left button Color / Right button Menu / Enter button Through HP Client Management Script Library, In-Band MAC Address Pass Through (MAPT), Out-of-Band MAC Address Pass Through (MAPT), In-Band Wake on LAN (WOL), Out-of-Band Wake on LAN (WOL), PXE Boot
	<b>Remote Manageability</b>	17
	<b>User Presets</b>	Yes
	<b>User Updateable Firmware</b>	Single Power On, Daisy Chain
	<b>Other Special Features</b>	
<b>Power &amp; Operating Specs</b>	<b>Power Supply</b>	Internal
	<b>Power Source</b>	100 – 240 VAC 50/60 Hz
	<b>Power Consumption- Max</b>	198 W
	<b>Energy Saving/Stand By Mode</b>	0.5 W
	<b>Power Consumption - Typical</b>	22 W
<b>Energy Star Data</b>	<b>Operational Mode at 100 VAC</b>	14.5 W
	<b>Operational Mode at 115 VAC</b>	14.5 W
	<b>Operational Mode at 230 VAC</b>	14.5 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<b>On-mode Power Consumption for Standard Dynamic Range (SDR)</b>	14.7 W
	<b>ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)</b>	
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	5~35°C
	<b>Operating Temperature - Fahrenheit</b>	41– 95°F
	<b>Non-Operating Temperature - Celsius</b>	–40 – 65°C
	<b>Non-Operating Temperature - Fahrenheit</b>	–40 – 149°F
	<b>Operating Humidity</b>	20 – 80% Relative Humidity (non-condensing)
	<b>Non-Operating Humidity</b>	5~95%RH
	<b>Operating Altitude Metric</b>	0~5,000m
	<b>Non-operating Altitude Metric</b>	0~12,192m
	<b>Operating Altitude Imperial</b>	0~16,400ft
	<b>Non-operating Altitude Imperial</b>	0~40,000ft

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<b>Certifications and Complies</b>	<b>Low Halogen</b>	Yes*
		* External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
	<b>Agency Approvals and Certifications</b>	<p>WW application            CB/KC/NOM/TUV-S/ISO 9241-307/EAC/cTUVus/PSB/ISC/CCC/CECP/SEPA/TCO/TCO            Certified Edge/BSMI/GS/TUV HW Low Blue Light/TUV Flicker            Free/UAE/Ukraine/BIS/NRCS/CE/FCC/VCCI/BSMI/EMF/KCC/ICES/RCM/PSE/Australian-New Zealand DoC/Energy Star/Vietnam MEPS/Australian-New Zealand MEPS/Korea MEPS/Ukraine EE/CEL/California CEC/WEEE            Windows 11 (x64 only), Windows 10 (x64 only)            Yes            EPEAT® Gold in United States*</p>
	<b>Microsoft WHQL Certification</b> <b>ENERGY STAR® Certified</b> <b>EPEAT® Registered</b> <b>Regions need to verify by country</b>	<p>*EPEAT® Gold  <b>NOTE:</b> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <a href="http://www.epeat.net">www.epeat.net</a> for more information.</p>
	<b>China Energy Label</b> <b>TCO Certified Edge</b> <b>TCO Certified</b> <b>SmartWay Transport Partnership - NA only</b>	<p>CEL Grade 1            Yes            Yes            Yes (NA sku)</p>
<b>Contains Recycled Materials</b>	<b>Recycled Plastics</b>	<p>85% ITE-derived closed loop plastic*            Contains Ocean-Bound Plastic**            *Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard            ** All plastic parts contain ocean-bound plastic. Percentage of ocean-bound plastic contained in each component varies by product.</p>
	<b>Recycled Metal</b>	<p>At least 40% recycled metal including 90% recycled aluminum in the stand*            * 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.</p>
	<b>Recycled Glass</b>	<p>Contains 20% recycled glass in the monitor panel*            * Percentage of recycled glass in the monitor panel varies by product. Recycled glass is expressed as a percentage of the total weight of the glass.</p>

Technical Specifications

Recyclable Packaging (Box, packing materials)

Outside Box and corrugated cushions are 100% sustainably sourced and recyclable\*  
Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable\*\*

\*100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.  
\*\*Molded pulp cushions contains 100% recycled wood fiber and organic materials.

Unit Product/Package Specifications	Product Dimensions	Metric	Imperial
Unit Product/Package Specifications	(Unpacked with stand) (W x D x H)	53.94 x 18.95 x 50.32 cm	21.24 x 7.46 x 19.81 in
	Product Dimensions (Packed) (W x D x H)	62.1 x 14.0 x 39.3 cm	24.45 x 5.51 x 15.47 in
	Display Head Dimensions (Unpacked without stand) (W x D x H)	53.94 x 4.72 x 31.43 cm	21.24 x 1.86 x 12.37 in
	Base Area Footprint (w x d mm)	242 x 189.50 mm	9.53 x 7.46 in
	Bezel Measurements	Top: NA Sides: NA Bottom: 9.25 mm	Top: NA Sides: NA Bottom: 0.37 in
	Product Weight (Unpacked with stand)	5.93 kg	13.07 lb
	Product Weight (Packed)	8.42 kg	18.57 lb
	Product Weight (Head Only)	4.33 kg	9.55 lb
	Pallet Information		
	Pallet Dimensions (L x W x H mm)	Slip Sheet: 1140 x 620 x 1990 mm (20' ft & 40' ft) Slip Sheet: 1140 x 620 x 2386 mm (40' HQ) Pallet: 1140 x 620 x 2110 mm (20' ft & 40' ft) Pallet: 1140 x 620 x 2509 mm (40' HQ)	Slip Sheet: 44.88 x 24.41 x 78.35 inch (20' ft & 40' ft) Slip Sheet: 44.88 x 24.41 x 93.94 inch (40' HQ) Pallet: 44.88 x 24.41 x 83.07 inch (20' ft & 40' ft) Pallet: 44.88 x 24.41 x 98.78 inch (40' HQ)
Pallet Information	Pallet Total Weight	Slip Sheet: 312 kg (20' ft & 40' ft) Slip Sheet: 379 kg (40' HQ) Pallet: 321 kg (20' ft & 40' ft) Pallet: 388 kg (40' HQ)	Slip Sheet: 687.8 lbs (20' ft & 40' ft) Slip Sheet: 835.6 lbs (40' HQ) Pallet: 707.7 lbs (20' ft & 40' ft) Pallet: 855.4 lbs (40' HQ)
	Pallet Layers	Slip Sheet: 5 layers (20' ft & 40' ft) Slip Sheet: 6 layers (40' HQ) Pallet: 5 layers (20' ft & 40' ft) Pallet: 6 layers (40' HQ)	
	Pallet Product per Layer	8 per layer (slip sheet & pallet) Slip Sheet: 40 sets (20' ft & 40' ft) Slip Sheet: 48 sets (40' HQ)	
	Total Products per Pallet	Pallet: 40 sets (20' ft & 40' ft) Pallet: 48 sets (40' HQ)	



Technical Specifications

	<b>Container Load, 20-Foot</b>	720 sets (slip sheet & pallet)
	<b>Container Load, 40-Foot</b>	1520 sets (slip sheet & pallet)
	<b>Container Load, 40-Foot HighQ</b>	1824 sets (slip sheet & pallet)
<b>What's in the box?</b>	AC power cord (1.83m) 5.9ft USB 3.2 C-C cable (1.8m) Warranty Quick Setup Poster	
<b>User Guide and Warranty Languages</b>	<b>User Guide Languages</b>	Arabic, Bahasa Indonesia, Bulgarian, Chinese-S, Chinese-T, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (Iberian), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkey, Ukrainian
	<b>Warranty Languages</b>	English US (EN), English AP (EN-AP), English LA (EN-LA), English UK (EN-GB), Arabic (AR) -17x, Bahasa Indonesia (ID), Bosnian (BS), Bulgarian (BG), Chinese-S (CN), Chinese-T (TW), Croatian (HR), Czech (CS), Danish (DA), Dutch (NL), Estonian (ET), Finnish (FI), French Canadian (FC), French European (FR), German (DE), Greek (EL), Hebrew (HE), Hungarian (HU), Italian (IT), Japanese (JA), Kazakh (KK), Korean (KO), Latvian (LV), Lithuanian (LT), Norwegian (NO), Polish (PL), Portuguese, Brazilian (BR), Portuguese, Iberian (PT), Romanian (RO), Russian (RU), Serbian (SR), Slovak (SK), Slovenian (SL), Spanish, Castilian (ES-ES), Spanish, Latin America (ES-MX), Swedish (SV), Thai (TH), Turkish (TR), Ukrainian (UK), Vietnamese (VI)



### *Technical Specifications*

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Summary

Change Log			
November 14,2024	V1 to V2	Correction	Color correction on call outs images
	V2 to V3		
	V3 to V4		