

### Technical Specifications

#### HP Series 5 Pro 23.8" FHD Monitor - 524pf



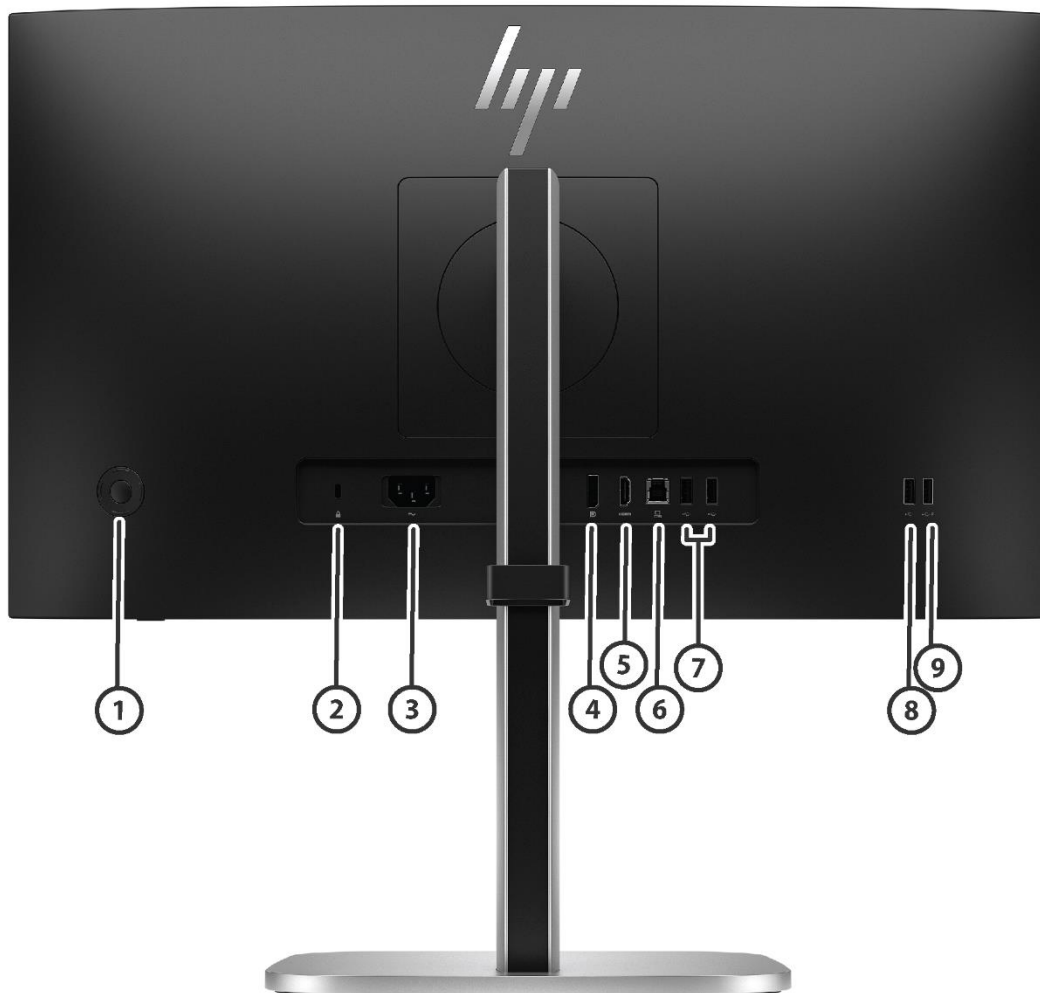
1. Power Button

#### Front

2. Power LED

### Technical Specifications

#### HP Series 5 Pro 23.8" FHD Monitor - 524pf



#### Back

1. Joypad OSD button
2. Security Cable Slot
3. Power Connector
4. DisplayPort™ 1.2
5. HDMI 1.4 Port
6. USB-B port
7. 2x SuperSpeed USB Type-A 5Gbps signaling rate
8. SuperSpeed USB Type-A 5Gbps signaling rate
9. SuperSpeed USB Type-A 5Gbps signaling rate (charging)

### Technical Specifications


Model: 9D9L6UT

<b>Panel Specifications</b>	<b>Display Size (Diagonal)</b>	60.5 cm (23.8")
	<b>Viewable Diagonal Size</b>	60.47 cm (23.8")
	<b>Panel Technology</b>	IPS
	<b>Curvature</b>	Flat
	<b>Max Refresh Rate</b>	100 Hz
	<b>Native Resolution</b>	FHD (1920 x 1080)
	<b>Panel Bit Depth</b>	8 bit (6 bit + FRC)
	<b>Aspect Ratio</b>	16:9
	<b>Brightness (Typical)</b>	350 nits
	<b>Display Contrast Ratio (Static)</b>	1500:1
	<b>Display Contrast Ratio (Dynamic)</b>	10000000:1 = 10M:1
	<b>Flicker Free</b>	Yes
	<b>Pixel Pitch</b>	0.2745 x 0.2745 mm
	<b>Pixels Per Inch (PPI)</b>	93 PPI
	<b>Display Colors</b>	Up to 16.7 million colors supported <i>*Number of colors through A-FRC technology.</i>
	<b>Backlight Lamp Life Minimum (To Half Brightness - In Hours)</b>	30,000 hours
	<b>Backlight Type</b>	Edge-lit, WLED
	<b>Screen Treatment</b>	Anti-glare
	<b>Hardness</b>	3H
	<b>Haze</b>	25%
	<b>Response Time (Typical)</b>	5ms GtG (with overdrive)
	<b>Horizontal Viewing Angle (Typical Cr&gt;10)</b>	178°
	<b>Vertical Viewing Angle (Typical Cr&gt;10)</b>	178°
<b>Panel Active Area Metric (W X H)</b>	52.70 x 29.65 cm	
<b>Panel Active Area Imperial (W X H)</b>	20.75x11.67 in	
<b>NOTE:</b> Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.		
<b>Color</b>	<b>sRGB</b>	100%
<b>Color Management</b>	<b>Color Space</b>	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	<b>RGB Channel Adjust</b>	Yes, Gain
	<b>Default Color Temperature</b>	Neutral (6500K)
<b>Monitor Specifications</b>	<b>Bezel Type</b>	3-sided borderless
	<b>Color Of Stand</b>	Black and Silver
	<b>Color Of Head</b>	Black
	<b>Tilt</b>	-5 to +23°
	<b>Swivel</b>	±45°
	<b>Pivot</b>	±90
	<b>Height Adjust Range</b>	150 mm
	<b>Vesa Mounting</b>	100mm x 100mm
	<b>Security Lock</b>	Security lock-ready

### Technical Specifications

<b>Detachable Stand</b>	Yes
<b>Warranty</b>	3/3/0 for AMS, 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* *The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see <a href="http://support.hp.com/us-en/document/c00288895">http://support.hp.com/us-en/document/c00288895</a> .
<b>Management Software</b>	HP Client Management Script Library*, HP Display Center** *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="http://support.hp.com">support.hp.com</a> to download **Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.
<b>On Screen Display (OSD)</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>	640 x 480 @ 60Hz 640 x 480 @ 75Hz 720 x 400 @ 70 Hz 720 x 480 @ 60Hz 720 x 576 @ 50Hz 800 x 600 @ 60 Hz 800 x 600 @ 75 Hz 1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz 1280 x 720 @ 50 Hz 1280 x 720 @ 60 Hz 1280 x 720 @100 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1024 @ 75 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x1080 @ 50Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 75 Hz 1920 x 1080@ 100 Hz
<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>	120 kHz
<b>Maximum Pixel Clock</b>	300 MHz
<b>User Programmable Modes</b>	Yes, 18

### Technical Specifications

	<b>User-Assignable Function Buttons</b>	Yes, 4 (6 options)
	<b>Languages</b>	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
<b>Connector Types</b>	<b>DisplayPort™</b>	1 DisplayPort™ 1.2
	<b>HDMI</b>	1 HDMI 1.4
	<b>HDCP</b>	Yes, DisplayPort™ and HDMI
	<b>USB-Type-A</b>	4 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging)
	<b>USB-B (Hub enablement)</b>	1 USB-B
<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
	<b>User Presets</b>	18
	<b>User Updateable Firmware</b>	Yes
<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>	58 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>	11.6 W
	<b>Operational Mode at 115 VAC</b>	11.5 W
	<b>Operational Mode at 230 VAC</b>	12.7 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<b>On-mode Power Consumption for Standard Dynamic Range (SDR)</b>	12 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>	-4 – 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
<b>Certifications and</b>	<b>Low Halogen</b>	Yes*

### Technical Specifications

#### Compliances

##### Agency Approvals and Certifications

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

##### Microsoft WHQL Certification

WW application

##### ENERGY STAR® Certified

CB/KC/NOM/TUV-S/ISO 9241-

##### EPEAT® Registered

307/EAC/cTUVus/PSB/ISC/CCC/CECP/SEPA/TCO/TCO

##### Regions need to verify by country

Certified Edge/GS/TUV HW

LBL/UAE/Ukraine/BIS/NRCS/CE/FCC/VCCI/BSMI/EMF/KCC/I

CES/RCM/Australian-New Zealand DoC/Energy Star/Korea

MEPS/Ukraine EE/CEL/California CEC/WEEE/PSE/TGM

Windows 11 (x64 only), Windows 10 (x64 only)

Yes

EPEAT® Gold in United States\*

EPEAT® registered with Climate+

\*EPEAT® Gold

**NOTE:** Based on US EPEAT® registration according to IEEE

1680.1-2018 EPEAT®. Status varies by country. Visit

[www.epeat.net](http://www.epeat.net) for more information.

##### China Energy Label

CEL Grade 2

##### TCO Certified Edge

Yes

##### TCO Certified

Yes

##### SmartWay Transport Partnership - NA only

Yes (NA sku)

#### Contains Recycled Materials

##### Recycled Plastics

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.

##### Recycled Metal

At least 30% recycled metal\*

\* 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.

##### Recycled Glass

20% recycled glass\*

\* 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.

##### 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.

### Technical Specifications

\*\*Molded pulp cushions contains 100% recycled wood fiber and organic materials.

		<b>Metric</b>	<b>Imperial</b>
<b>Unit Product/Package Specifications</b>	<b>Product Dimensions</b> (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
	<b>Product Dimensions</b> (Packed) (W x D x H)	62.1 x 14.0 x 39.3 cm	24.45 x 5.51 x 15.47 in
	<b>Display Head Dimensions</b> (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
	<b>Base Area Footprint</b> (w x d mm)	242 x 189.50 mm	9.53 x 7.46 in
	<b>Bezel Measurements</b>	Top: NA Sides: NA Bottom: 9.25	Top: NA Sides: NA Bottom: 0.37
	<b>Product Weight</b> (Unpacked with stand)	4.9 kg	10.8 lb
	<b>Product Weight</b> (Packed)	7.2 kg	15.9 lb
	<b>Product Weight</b> (Head Only)	3.4 kg	7.6 lbs
	<b>Pallet Information</b>	<b>Pallet Dimensions</b> (L x W x H mm)	Slip Sheet: 1128 x 629 x 1978 mm (20' ft & 40' ft)
Slip Sheet: 1128 x 629 x 2372 mm (40' HQ)			Slip Sheet: 44.41 x 24.76 x 93.39 inch (40' HQ)
Pallet: 1128 x 629 x 2106 mm (20' ft & 40' ft)			Pallet: 44.41 x 24.76 x 82.91 inch (20' ft & 40' ft)
Pallet: 1128 x 629 x 2499 mm (40' HQ)			Pallet: 44.41 x 24.76 x 98.39 inch (40' HQ)
<b>Pallet Total Weight</b>		Slip Sheet: 292.5 kg (20' ft & 40' ft)	Slip Sheet: 644.8 lbs (20' ft & 40' ft)
		Slip Sheet: 350.6 kg (40 HQ)	Slip Sheet: 772.9 lbs (40' HQ)
		Pallet: 302.5 kg (20' ft & 40' ft)	Pallet: 666.9 lbs (20' ft & 40' ft)
<b>Pallet Layers</b>		Pallet: 360.6 kg (40 HQ)	Pallet: 795.0 lbs (40' HQ)
		Slip Sheet: 5 layers (20' ft & 40' ft)	
		Slip Sheet: 6 layers (40' HQ)	
<b>Pallet Product per Layer</b>	Pallet: 5 layers (20' ft & 40' ft)		
	Pallet: 6 layers (40' HQ)		
<b>Total Products per Pallet</b>	8 per layer (slip sheet)		
	8 per layer (pallet)		
<b>Container Load, 20-Foot</b>	Slip Sheet: 40 sets (20' ft & 40' ft)		
	Slip Sheet: 48 sets (40' HQ)		
<b>Container Load, 40-Foot</b>	Pallet: 40 sets (20' ft & 40' ft)		
	Pallet: 48 sets (40' HQ)		

### Technical Specifications

#### Container Load, 40-Foot HighQ

1824 sets (slip sheet)  
1824 sets (pallet)

#### What's in the box?

AC power cord (1.83m) 5.9ft  
HDMI 1.4 cable (1.8m) 5.9 ft  
USB 3.0 B-A cable (1.8m)  
DisplayPort™ 1.2 cable (1.8m)  
Warranty  
Quick Setup Poster

#### User Guide and Warranty Languages

##### User Guide Languages

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

##### Warranty Languages

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*

© Copyright 2024 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency.

### Summary

<b>Change Log</b>			
November 22, 2024	V1 to V2	Updated Added	Management Software Section Certification Section
	V2 to V3		
	V3 to V4		