

### Technical Specifications

#### HP Series 3 Pro FHD Monitor-322pf



#### Front

1. Power Button
2. Power LED

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1. Joypad OSD button
2. Security Cable Slot
3. Power Connector

#### Back

4. DisplayPort™ 1.2
5. HDMI 1.4 Port
6. VGA Port

### Technical Specifications

**Model:** 9U5B0UT

Panel Specifications	Display Size (Diagonal)	54.6 cm (21.5")
	Viewable Diagonal Size	54.61 cm (21.5")
	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)	250 nits
	Display Contrast Ratio (Static)	1000:1
	Display Contrast Ratio (Dynamic)	8M:1
	Flicker Free	Yes (TÜV certified)
	Pixel Pitch	0.2480 x 0.2480 mm
	Pixels Per Inch (PPI)	93 PPI
	Display Colors	Up to 16.7 million colors supported* <small>*Number of colors thru A-FRC technology.</small>
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30,000 hours
	Blacklight Type	Edge-lit, WLED
	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)	47.61 x 26.78 cm
	Panel Active Area Imperial (W X H)	18.74 x 10.54 in
<b>NOTE:</b> Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.		
Color	NTSE	72%
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	Black
	Color Of Head	Black
	Tilt	-5 to +23°
	Vesa Mounting	100 mm x 100 mm
	Security Lock	Security lock-ready
	Detachable Stand	Yes
	Warranty	3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries)

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<b>Low Blue Light</b>	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
<b>Management Software</b>	HP Client Management Script Library (CMSL)* 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 HP CMSL. ** Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.
<b>On Screen Display (OSD)</b>	<b>On Screen Display</b>  <b>Native Resolution</b>
	Brightness+, Image, Color, Input, Power, Menu, Management, Information, Exit FHD (1920 x 1080)
	* DisplayPort™ 1.2 or 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 100 Hz with 8-bit color using one HDMI or DisplayPort™; 1920x1080 at 60 Hz with 8-bit color using one VGA.
<b>Maximum Resolution</b>	FHD (1920 x 1080 @ 100 Hz)
<b>Preset Graphic Modes/Supported Resolutions</b>	640 x 480 @ 60Hz 640x480@75Hz (Digital inputs only) 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 800x600 @ 75Hz (Digital inputs only) 1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz (Digital inputs only) 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1024 @ 75 Hz (Digital inputs only) 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60Hz 1920x1080 @ 50Hz (Digital inputs only) 1920 x 1080 @ 60Hz 1920x1080 @ 75Hz (Digital inputs only) 1920x1080 @ 100z (Digital inputs only)
<b>Minimum Vertical Scan Rate</b>	50 Hz
<b>Maximum Vertical Scan Rate</b>	DisplayPort™ & HDMI 100 Hz, VGA 60 Hz
<b>Minimum Horizontal Scan Rate</b>	30 kHz
<b>Maximum Horizontal Scan Rate</b>	HDMI & DisplayPort™: 115 kHz, VGA: 80 kHz
<b>Maximum Pixel Clock</b>	HDMI & DisplayPort™: 300MHz, VGA: 170MHz
<b>User Programmable Modes</b>	Yes, VGA 11, HDMI / DisplayPort™ 18
<b>User-Assignable Function Buttons</b>	Yes, 4 (VGA: 6 options, HDMI / DisplayPort™: 5 options)
<b>Languages</b>	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)

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<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>VGA</b>	1 VGA
<b>Special Features</b>	<b>Switch</b>	Monitor Power button Next Active Input / Up button Brightness / Down button Information / Left button Color / Right button Menu / Enter button 11(VGA)/18(HDMI & DisplayPort™)
<b>User Presets</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>	25 W
	<b>Energy Saving/Stand By Mode</b>	0.5 W
	<b>Power Consumption - Typical</b>	20 W
<b>Energy Star Data</b>	<b>Operational Mode at 100 VAC</b>	12.73 W
	<b>Operational Mode at 115 VAC</b>	12.73 W
	<b>Operational Mode at 230 VAC</b>	12.73 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<b>On-mode Power Consumption for Standard Dynamic Range (SDR)</b>	13 W
<b>EU Energy Efficiency Class (ErP LOT-5)</b>	<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 (16,400 ft.)
	<b>Non-operating Altitude Metric</b>	0~12,192m (40,000 ft.)
	<b>Operating Altitude Imperial</b>	0~16,400ft
	<b>Non-operating Altitude Imperial</b>	0~40,000ft
<b>Certifications and Compliances</b>	<b>Low Halogen</b>	Yes
	<b>Agency Approvals and Certifications</b>	WW application UAE/EUP Lot6 and Lot26/ Eup Lot5/ Energy Star / TCO Edge/ TCO / Australia MEPS/ Vietnam MEPS/ CEC/ Bauart/ China CCC/ cTUVus/ Korea KC/ Korea KCC/ Korea e-Standby/ CB(62368-1&60950)/ ISO9241-307/ CE/FCC/VCCI/RCM/C-TICK/IC/ India BIS/ Taiwan BSMI/ Mexico NOM/ South Africa Energy Efficiency/ Argentina S-

### Technical Specifications

Mark/ Singapore PSB/ Cambodia ISC/ EAC//Mexico Energy /CEL/Ukraine(DOC&COC)/NRCS/Ukraine energy/PSE/SEPA/TGM/ Works with Chromebook\*

\*This product works with devices capable of running the latest version of ChromeOS and has been certified to meet Google's compatibility standards. Google is not responsible for the operation of this product or its compliance with safety requirements. Chromebook and the Works With Chromebook badge are trademarks of Google LLC.



<b>Microsoft WHQL Certification</b>	Windows 11, Windows 10	
<b>ENERGY STAR® Certified</b>	Yes	
<b>EPEAT® Registered</b>	EPEAT® Gold in United States*	
<b>Regions need to verify by country</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.	
<b>China Energy Label</b>	CEL Grade 2	
<b>TCO Certified Edge</b>	Yes	
<b>TCO Certified</b>	Yes	
<b>SmartWay Transport Partnership - NA only</b>	Yes (NA sku)	
<b>Contains Recycled Plastics</b>	85% ITE-derived closed loop plastic*	
<b>Recycled Aluminum</b>	*ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.	
<b>Recyclable Packaging (Box, packing materials)</b>	No Outside Box is 100% sustainably sourced and recyclable*	
	Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable**	
	*100% outer box packaging is made from sustainably sourced certified and recycled fibers. ** Molded pulp cushions are made from 100% recycled wood fiber and organic materials.	
<b>Unit Product/Package Specifications</b>	<b>Metric</b>	<b>Imperial</b>
<b>Product Dimensions</b> (Unpacked with stand) (W x D x H)	48.8 x 18.04 x 37.82 cm	19.21 x 7.1 x 14.89 in
<b>Product Dimensions</b> (Packed) (W x D x H)	56.7 x 12.1 x 38.7 cm	22.32 x 4.76 x 15.24 in
<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	48.8 x 5.13 x 29.43 cm	19.21 x 2.02 x 11.59 in
<b>Base Area Footprint</b> (w x d mm)	174 x 170 mm	6.85 x 6.69 in

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<b>Bezel Measurements</b>		
<b>Product Weight</b> (Unpacked with stand)	Top: 1.4 mm Sides: 1.4 mm Bottom: 19.3 mm 3.25 kg	Top: 0.05 in Sides: 0.05 in Bottom: 0.76 in 7.16 lb
<b>Product Weight</b> (Packed)	5.21 kg	11.49 lb
<b>Product Weight</b> (Head Only)	2.86 kg	6.31 lb
<b>Pallet Information</b>	<b>Pallet Dimensions</b> (L x W x H mm)	<b>Pallet Dimensions</b> (L x W x H mm)
	Slip Sheet: 1144x978x1960 mm (20' ft &40' ft) Slip Sheet: 1144x978x2350 mm (40' ft HQ) Pallet: 1144x978x2080 mm (20' ft &40' ft) Pallet: 1144x978x2470 mm (40' ft HQ)	Slip Sheet: 45.04x38.51x77.17 inch (20' ft &40' ft) Slip Sheet: 45.04x38.51x92.52 inch (40' ft HQ) Pallet: 45.04x38.51x81.89 inch (20' ft &40' ft) Pallet: 45.04x38.51x97.24 inch (40' ft HQ)
	<b>Pallet Total Weight</b>	<b>Pallet Total Weight</b>
	Slip Sheet: 432 Kg (20' ft &40' ft) Slip Sheet: 518 Kg (40' ft HQ) Pallet: 449 Kg (20' ft &40' ft) Pallet: 535 Kg (40' ft HQ)	Slip Sheet: 950.4 lb(20' ft &40' ft) Slip Sheet: 1139.6 lb(40' ft HQ) Pallet: 987.8 lb(20' ft &40' ft) Pallet: 1177 lb(40' ft HQ)
	<b>Pallet Layers</b>	<b>Pallet Layers</b>
	<b>Pallet Product per Layer</b>	Slip Sheet & Pallet: 5 layers (20' ft &40' ft) Slip Sheet & Pallet: 6 layers (40' ft HQ)
	<b>Total Products per Pallet</b>	<b>Total Products per Pallet</b>
	<b>Container Load, 20-Foot</b>	16 per layer(Slip Sheet & Pallet)
	<b>Container Load, 40-Foot</b>	80 sets per Slip Sheet & Pallet (20' ft &40' ft )
	<b>Container Load, 40-Foot HighQ</b>	96 sets per Slip Sheet & Pallet (40' ft HQ)
<b>What's in the box?</b>	AC power cord (1.83m) 5.9ft HDMI 1.4 cable (1.8m) 5.9 ft DisplayPort™ 1.2 cable (1.8m, NA/ LA/ Japan/ EMEA AF sku only) Quick Setup Poster Warranty	960 sets (Slip Sheet and Pallet) 1920 sets (Slip Sheet and Pallet) 2304 sets (Slip Sheet and Pallet)
<b>User Guide and Warranty Languages</b>	<b>User Guide 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

### Technical Specifications

#### 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*

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### Summary

#### Change Log

Change Log			
December 17, 2024	V1 to V2	Updated	HP Client Management Script Library (CMSL) Footnote
	V2 to V3		
	V3 to V4		