

Technical Specifications

HP Series 3 Pro FHD Monitor- 324pv



Front

1. Power Button
2. Power LED

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HP Series 3 Pro FHD Monitor- 324pv



Back

- | | | | |
|----|---------------------|----|---------------|
| 1. | Joypad OSD button | 4. | HDMI 1.4 Port |
| 2. | Security Cable Slot | 5. | VGA Port |
| 3. | Power Connector | | |

Technical Specifications

Model: 9U5C1AA

Panel Specifications	Display Size (Diagonal)	60.5 cm (23.8")
	Viewable Diagonal Size	60.47 cm (23.8")
	Panel Technology	VA
	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)	3000:1
	Display Contrast Ratio (Dynamic)	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 thru A-FRC technology.
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30,000 hours
	Backlight 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°
Color	Panel Active Area Metric (W X H)	52.7 x 29.65 cm
	Panel Active Area Imperial (W X H)	20.75 x 11.67 in
	NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Color Management	NTSE	72%
	Color Space	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	RGB Channel Adjust	Yes, Gain
Monitor Specifications	Default Color Temperature	Standard (6500K)
	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	Standard Security Lock Slot
	Detachable Stand	Yes
Warranty		3/3/0 for LA, NA, EMEA, APJ
		(3/3/3 in select APJ Countries)

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Low Blue Light		Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
Management Software		HP Client Management Script Library (CMSL)* 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 support.hp.com to download HP CMSL.</i> <i>** Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.</i>
On Screen Display (OSD)	On Screen Display	Brightness+, Image, Color, Input, Power, Menu, Management, Information, Exit
	Native Resolution	FHD (1920 x 1080) <i>* 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 1920x1080at 100 Hz with 8-bit color using one HDMI or DisplayPort™; 1920x1080 at 60 Hz with 8-bit color using one VGA.</i>
	Maximum Resolution	FHD (1920 x 1080 @ 100 Hz)
	Preset Graphic Modes/Supported Resolutions	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)
Minimum Vertical Scan Rate		50 Hz
Maximum Vertical Scan Rate		VGA 60 Hz, HDMI 100 Hz
Minimum Horizontal Scan Rate		30 kHz
Maximum Horizontal Scan Rate		HDMI: 115 kHz, VGA:80 kHz
Maximum Pixel Clock		HDMI:300MHz, VGA:170MHz
User Programmable Modes		Yes, VGA 11, HDMI 18
User-Assignable Function Buttons		Yes, 4 (VGA: 6 options, HDMI: 5 options)
Languages		11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)

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Connector Types	HDMI	1 HDMI 1.4
	HDCP	Yes, HDMI
	VGA	1 VGA
Special Features	Switch	Monitor Power button Next Active Input / Up button Brightness / Down button Information / Left button Color / Right button Menu / Enter button 11(VGA)/18(HDMI)
	User Presets	
Power & Operating Specs	Power Supply	Internal
	Power Source	100 – 240 VAC 50/60 Hz
	Power Consumption- Max	30 W
	Energy Saving/Stand By Mode	0.5 W
	Power Consumption - Typical	20 W
Energy Star Data	Operational Mode at 100 VAC	14.3 W
	Operational Mode at 115 VAC	14.3 W
	Operational Mode at 230 VAC	14.3 W
EU Energy Efficiency Class (ErP LOT-5)	On-mode Power Consumption for Standard Dynamic Range (SDR)	14.4 W
EU Energy Efficiency Class (ErP LOT-5)	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
Certifications and Compliances	Low Halogen	Yes
	Agency Approvals and Certifications	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-Mark/ Singapore PSB/ Cambodia ISC/ EAC//Mexico Energy

Technical Specifications

		/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. Windows 11, Windows 10 Yes EPEAT® Gold in United States *Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information. CEL Grade 2 Yes Yes Yes (NA sku)			
Microsoft WHQL Certification ENERGY STAR® Certified EPEAT® Registered Regions need to verify by country					
China Energy Label TCO Certified Edge TCO Certified SmartWay Transport Partnership - NA only					
Contains Recycled Plastics	Contains Recycled Plastics	85% ITE-derived closed loop plastic*			
	Recyclable Packaging (Box, packing materials)	*ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard. 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.			
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	Metric 53.89 x 18.05 x 39.79 cm	Imperial 21.22 x 7.11 x 15.67in		
	Product Dimensions (Packed) (W x D x H)	59.5 x 12.4 x 39.1 cm	23.43 x 4.88 x 15.39 in		
	Display Head Dimensions (Unpacked without stand) (W x D x H)	53.89 x 5.143 x 32.36 cm	21.22 x 2.02 x 12.74 in		
	Base Area Footprint (w x d mm)	174 x 170 mm	6.85 x 6.69 in		
	Bezel Measurements	Top: 1.5 cm Sides: 1.5 cm Bottom: 20.2 cm	Top: 0.06 in Sides: 0.06 in Bottom: 0.8 in		

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	Product Weight (Unpacked with stand)	3.56 kg	7.84 lb
	Product Weight (Packed)	5.54 kg	12.22 lb
	Product Weight (Head Only)	3.17 kg	6.99 lb
Pallet Information	Pallet Dimensions (L x W x H mm)	Slip Sheet: 1200x1000x1967 mm (20 ft &40 ft)	Slip Sheet: 47.24 x 39.37 x77.44 inch (20 ft &40 ft)
		Slip Sheet: 1200 x 1000 x 2358 mm (40 HQ)	Slip Sheet: 47.24 x 39.37 x 92.83 inch (40 HQ)
		Pallet: 1200x1000 x 2100 mm (20 ft & 40 ft)	Pallet: 47.24 x39.37 x 82.68 inch (20 ft & 40 ft)
		Pallet: 1200 x 1000 x 2494 mm (40 HQ)	Pallet: 47.24 x 39.37 x 98.19 inch (40 HQ)
	Pallet Total Weight	Slip Sheet: 475kg (20 ft & 40 ft)	Slip Sheet: 1047.2 lb (20 ft & 40 ft)
		Slip Sheet: 569 kg (40 ft HQ)	Slip Sheet: 1254.43 lb (40 ft HQ)
		Pallet: 485.62kg (20 ft & 40 ft)	Pallet: 1070.61 lb (20 ft & 40 ft)
		Pallet: 579.38 kg (40 ft HQ)	Pallet: 1277.31 lb (40 ft HQ)
	Pallet Layers	5 (20ft/40ft slip sheet & pallet)	
	Pallet Product per Layer	6 (40ft HQ slip sheet & pallet)	
	Total Products per Pallet	16 (slip sheet & pallet)	
	Container Load, 20-Foot	80 (20ft/40ft slip sheet & pallet)	
	Container Load, 40-Foot	96 (40ft HQ slip sheet & pallet)	
	Container Load, 40-Foot HighQ	800 sets (Slip Sheet and Pallet)	
		1680 sets (Slip Sheet and Pallet)	
		2016 sets (Slip Sheet and Pallet)	
What's in the box?	AC power cord (1.83m) 5.9ft HDMI 1.4 cable (1.8m) 5.9 ft Quick Setup Poster Warranty		
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),	

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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)

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Summary

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