**Technical Specifications** 

### **HP P24v G5 FHD Monitor**



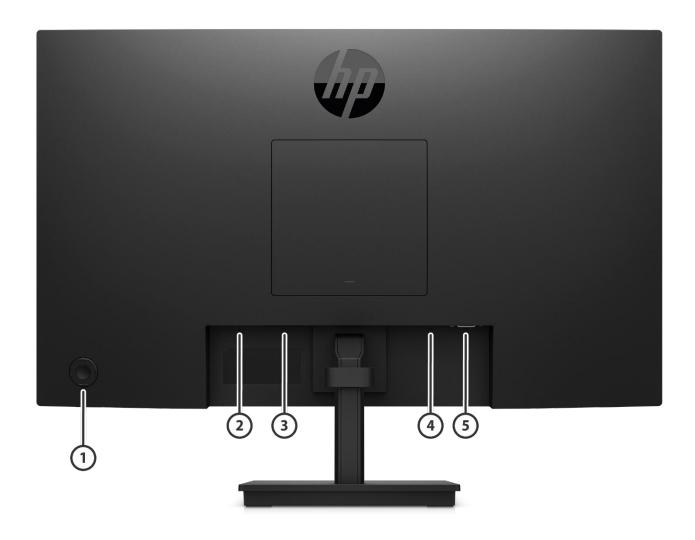
#### **Front**

2. Power LED

1. Power Button

### **Technical Specifications**

### **HP P24v G5 FHD Monitor**



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

#### Back

- 4. HDMI 1.4 Port
- 5. VGA Port

#### **Technical Specifications**

Model: 64W18AA

Panel SpecificationsDisplay Size (Diagonal)23.8 inch

Panel TechnologyVAMax Refresh Rate75Hz

Native ResolutionFHD (1920 x 1080)Panel Bit Depth8 bit (6 bit + FRC)

Aspect Ratio16:9Brightness (Typical)250 nitsContrast Ratio (Static)3000:1Dynamic Contrast Ratio8M:1

Flicker FreeYes (TÜV certified)Pixel Pitch0.27 mm x 0.27 mm

Pixels Per Inch (PPI) 93 PPI

**Display Colors** Up to 16.7 million colors supported

30k

**Backlight Lamp Life Minimum (To Half** 

Brightness - In Hours)

Backlight TypeEdge-litScreen TreatmentAnti-glareHardness3H

Haze 25%

**Response Time (Typical)** 5ms GtG (with overdrive)

**Horizontal Viewing Angle (Typical** 

Cr>10)

**Vertical Viewing Angle (Typical Cr>10)** 178°

Panel Active Area Metric (W X H) 52.59 x 29.58 cm Panel Active Area Imperial (W X H) 20.70 x 11.65 in

**NOTE:** Performance specifications represent the typical specifications provided by HP's component

manufacturers; actual performance may vary either higher or lower.

Color NTSC 72%

Color Management Color Space/ Subsampling Support RGB 4:4:4

**RGB Channel Adjust** Yes, Gain

Default Color TemperatureStandard (6500K)Factory Color CalibratedYes (Color Temperature)

**Factory Color Presets** Warm - 5000K, Neutral - 6500K,

Cool - 9300K

**Monitor Specifications Bezel Type** 3-sided borderless

Color Of Stand Black
Color Of Head Black
Tilt -5~+23°

**Vesa Mounting** 100 mm x 100 mm

Security Lock Slot Standard Security Lock Slot

**Detachable Stand** Yes

Warranty 3/3/0 for LA, NA, EMEA, APJ (3/3/3 in select APJ Countries)



#### **Technical Specifications**

**Low Blue Light** Yes, (TÜV certified)

Management Software HP Display Center, HP Display Manager\*

\*Host PC requires Windows 10. HP Display Center is available on

the Microsoft store.

On Screen Display (OSD)

On Screen Display Brightness+, Color Control, Image Control, Input Control,

Power Control, Menu Control, Management, Information,

Exit

Native Resolution FHD (1920 x 1080)

**NOTE:** HDMI 1.4 & VGA required to drive panel at its native

resolution.

The video card of the connected PC must be capable of

supporting 1920x1080 at 60 Hz with 8-bit color using one HDMI

or VGA.

**Maximum Resolution** 

**Preset Graphic Modes/Supported** 

Resolutions

1920 x 1080 (FHD) 640 x 480 @ 60Hz

640 x 480 @ 75Hz (HDMI only)

720 x 400 @ 70 Hz 800 x 600 @ 60 Hz

800 x 600 @ 75 Hz (HDMI only)

1024 x 768 @ 60 Hz

1024 x 768 @ 75 Hz (HDMI only)

1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz

1280 x 1024 @ 75 Hz (HDMI only)

1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz

1920 x 1080 @ 50 Hz (HDMI only)

1920 x 1080 @ 60 Hz

1920 x 1080 @ 75 Hz (HDMI only)

Minimum Vertical Scan Rate48 HzMaximum Vertical Scan Rate75 HzMinimum Horizontal Scan Rate55.6 kHzMaximum Horizontal Scan Rate90.8 kHzMaximum Pixel Clock94.0 MHzUser Programmable ModesYes, 10

**User-Assignable Function Buttons** Yes, 4 (VGA: 6 options, HDMI: 5 options)

11 (English, Spanish, German, French, Italian,

Languages Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese

and Russian)

**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

#### **Technical Specifications**

Information / Left button Color / Right button Menu / Enter button 11 (VGA) / 17 (HDMI)

**Power & Operating** 

Specs

Power Supply Internal

**Power Source** 100 – 240 VAC 50/60 Hz

Power Consumption- Max30 WEnergy Saving/Stand By Mode0.5 WPower Consumption - Typical20 W

Energy Star Data Operational Mode at 100 VAC 14.3 W

**User Presets** 

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) ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)

17W



5° - 35°C

Operating Conditions Operating Temperature - Celsius

 $\begin{array}{ll} \textbf{Operating Temperature - Fahrenheit} & 41^\circ - 95^\circ F \\ \textbf{Non-Operating Temperature - Celsius} & -40^\circ - 65^\circ C \\ \textbf{Non-Operating Temperature -} & -40^\circ - 149^\circ F \\ \end{array}$ 

**Fahrenheit** 

**Operating Humidity** 20 – 80% Relative Humidity (non-condensing)

Non-Operating Humidity 5 – 95%

 $\begin{array}{ll} \textbf{Operating Altitude} & 0-5,000 \text{ m (16,400 ft.)} \\ \textbf{Non-operating Altitude} & 0-12,192 \text{ m (40,000 ft.)} \\ \end{array}$ 

Certifications and Compliances

Mercury-free LED display backlighting

Low Halogen

Yes, Mercury-free LED backlighting

Yes\*

\*External power supplies, WWAN modules, power cords,

cables and peripherals excluded.

**Agency Approvals and Certifications** WW application

CE,CB,KC/KCC/NOM/PSB/ICE/TUV-Bauart/ISO 9241-307/TUV flicker free/ TUV LBL/ BIS/ UAE safety/ UAE

RoHS/ Ukraine safety/ South Africa safety/

EAC/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified

Edge/Energy Star/ISC/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE/CEC

Microsoft WHQL CertificationWin 11, Win 10, Win 8, Win 7ENERGY STAR® CertifiedYes, ENERY STAR®

EPEAT® Registered

Regions need to verify by country

EPEAT® registered\*

\*Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit

http://www.epeat.net for more information.

CEL Grade 2

TCO Certified Edge Yes



### **Technical Specifications**

**TCO Certified** 

only

SmartWay Transport Partnership - NA

Contains Recycled Plastics	Contains Recycled Plastics  Recyclable Packaging (Box, packing materials)	85% ITE-derived closed loop plastic*  *Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.  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.	
		<u>Metric</u>	<u>Imperial</u>
Unit Product/Package Specifications	Product Dimensions (Unpacked with stand) (W x D x H)	53.89 x 18.05 x 39.78 cm	21.22 x 7.11 x 15.66 in
Specifications	Product Dimensions	59.5 x 12.4 x 39.1 cm	23.43 x 4.88 x 15.39 in
	(Packed) (W x D x H)		
	<b>Display Head Dimensions</b> (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)	173.97 x 169.97 mm	6.85 x 6.69 in
	Bezel Measurements	Top: 1.4 mm	Top: 0.55 in
	(Unpacked with stand) (W x D x H)	Sides: 1.4 mm	Sides: 0.55 in
		Bottom: 20.2 mm	Bottom: 7.95 in
	Product Weight	3.57 kg	7.86 lb
	(Unpacked with stand)		
	Product Weight	5.49 kg	12.1 lb
	(Packed) Product Weight	3.17 kg	6.99 lb
	(Head Only)	3.17 Kg	6.55 tb
Pallet Information	Pallet Dimensions	Slip Sheet:	Slip Sheet:
	(L x W x H mm)	1200 x 1000 x 1967 mm	47.24 x 39.37 x77.44 inch
		(20 ft &40 ft)	(20 ft &40 ft)
		Slip Sheet:	Slip Sheet:
		1200 x 1000 x 2358 mm (40 HQ)	47.24 x 39.37 x 92.83 inch (40 HQ)
		Pallet:	Pallet:
		1200x1000 x 2100 mm	47.24 x39.37 x 82.68 inch
		(20 ft & 40 ft)	(20 ft & 40 ft)
		Pallet:	Pallet:
		1200 x 1000 x 2494 mm	47.24 x 39.37 x 98.19 inch
		(40 HQ)	(40 HQ)
	Pallet Total Weight	Slip Sheet:	Slip Sheet:
		439.2 kg (20 ft & 40 ft)	968.27 lb (20 ft & 40 ft)
		Slip Sheet:	Slip Sheet:
		527.04 kg (40 HQ)	1161.92 lb (40 HQ)
		Pallet:	Pallet:

Yes

Yes (NA sku)

### **Technical Specifications**

459.2kg (20 ft & 40 ft) 1012.36 lb (20 ft & 40 ft)

Pallet: Pallet:

547.04 kg (40 HQ) 1206.02 lb (40 HQ)

5 or 6 (slip sheet & pallet) 16 (slip sheet & pallet)

80 or 96 per pallet (slip sheet & pallet)

800 (slip sheet and pallet) 1680 sets (slip sheet and pallet) 2016 sets (slip sheet & pallet)

**Pallet Layers** 

Pallet Product per Layer Total Products per Pallet Container Load, 20-Foot Container Load, 40-Foot Container Load, 40-Foot HighQ

What's in the box?

AC power cord (1.83m) 6ft HDMI 1.4 cable (1.8m) 5.9ft

Warranty Doc kit

**Quick Setup Poster** 

User Guide and Warranty Languages **User Guide Languages** 

**Warranty 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 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**

#### **ENVIRONMENTAL DATA**

Eco-Label Certifications &	This product has received or is i	n the process of being certified	to the following approvals		
declarations	and may be labeled with one or		to the rotto ming approvate		
	IT ECO declaration	more or these marks.			
	US ENERGY STAR®				
		agement Program (FEMP)			
		l in the United States. See http:	//www.apast not for		
		-	//www.epeat.net for		
	registration status in y	our country.			
	TCO Certified	(5552)			
	China Energy Conserva	_	(CED 4)		
		ntal Protection Administration	(SEPA)		
	<ul> <li>Taiwan Green Mark</li> </ul>				
	<ul> <li>Korea Eco-label</li> </ul>				
	Japan PC Green label*				
Sustainable Impact	• 85% ITE – derived closed loop	plastic			
Specifications • Low halogen					
	Outside Box and corrugated cu	ıshions are 100% sustainably s	ourced and recyclable		
	Molded Paper Pulp Cushion in:	Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable			
System Configuration	The configuration used for the I	Energy Consumption and Declar	ed 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)	11.86 W	11.69 W	11.92 W		
Normal Operation (Long idle)	11.86 W	11.69 W	11.92 W		
Sleep	0.21 W	0.26 W	0.2 W		
Off	0.07 W 0.13 W 0.07 W		0.07 W		
	NOTE: Energy efficiency data listed is formula model family. HP computers man applicable U.S. Environmental Formula computers. If a model family does energy efficiency data listed is formula find the first family power supply, and the first family are supply and the first family does not be supply and the first family data for the first family data from the first family	orked with the ENERGY STAR® L Protection Agency (EPA) ENERGY les not offer ENERGY STAR® cor for a typically configured PC fea	ogo are compliant with the Y STAR® specifications for npliant configurations, then turing a hard disk drive, a		
-	Energy efficiency data listed is f model family. HP computers ma applicable U.S. Environmental P computers. If a model family do energy efficiency data listed is f	orked with the ENERGY STAR® L Protection Agency (EPA) ENERGY les not offer ENERGY STAR® cor for a typically configured PC fea	ogo are compliant with the Y STAR® specifications for npliant configurations, then turing a hard disk drive, a		
<b>Heat Dissipation*</b> Normal Operation (Short idle)	Energy efficiency data listed is f model family. HP computers ma applicable U.S. Environmental F computers. If a model family do energy efficiency data listed is f high efficiency power supply, ar	arked with the ENERGY STAR® L Protection Agency (EPA) ENERGY les not offer ENERGY STAR® cor for a typically configured PC fea and a Microsoft Windows® opera	ogo are compliant with the / STAR® specifications for npliant configurations, then turing a hard disk drive, a ting system.		
-	Energy efficiency data listed is f model family. HP computers ma applicable U.S. Environmental F computers. If a model family do energy efficiency data listed is f high efficiency power supply, ar	erked with the ENERGY STAR® L Protection Agency (EPA) ENERGY les not offer ENERGY STAR® con for a typically configured PC fea and a Microsoft Windows® opera	ogo are compliant with the Y STAR® specifications for npliant configurations, then turing a hard disk drive, a ting system.		
	Energy efficiency data listed is f model family. HP computers ma applicable U.S. Environmental F computers. If a model family do energy efficiency data listed is f high efficiency power supply, ar 115VAC, 60Hz 40.6 BTU/hr	erked with the ENERGY STAR® L Protection Agency (EPA) ENERGY ses not offer ENERGY STAR® cor for a typically configured PC fea and a Microsoft Windows® operation.  230VAC, 50Hz  40 BTU/hr	ogo are compliant with the YSTAR® specifications for appliant configurations, then turing a hard disk drive, a ting system.  100VAC, 50Hz 40.8 BTU/hr		



### **Technical Specifications**

Longevity and Upgrading	-	This product can be upgraded, possibly extending its useful life by several years.		
	Upgradeable	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			
	Equ	Equipment (WEEE) Directive – 2002/96/EC.		
		s product is in compliance with California Propositi		
		e Drinking Water and Toxic Enforcement Act of 198		
		s product is in compliance with the IEEE 1680 (EPE	AT) standard at the Gold level	
		www.epeat.net		
		<ul> <li>Plastics parts weighing over 25 grams used in the product are marked per</li> </ul>		
		11469 and ISO1043.	1 6 . 1 6116	
	• This	<ul> <li>This product is 98.9% recycle-able when properly disposed of at end of life.</li> </ul>		
Packaging Materials	External:	PAPER/Paperboard	547 g	
		PAPER/Molded Pulp	987 g	
	Internal:	PLASTIC/Polyethylene high density - HDPE	40 g	
	The plastic	packaging material contains at least 0.0% recycle	d content.	
	The corrugated paper packaging materials contains at least 90% 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	(refer to the	does not contain any of the following substances HP General Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/su		
		estos tain Azo Colorants		



### **Technical Specifications**

	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)  Bibutyl phthalate (BBP)  Company  Compan	
	Dibutyl phthalate (DBP)  Disable to the block (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)	
	<ul> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging</li> </ul>	
	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.	
	<ul> <li>Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> </ul>	
	Design packaging materials for ease of disassembly.	
	Maximize the use of post-consumer recycled content materials in packaging	
	materials.	
	<ul> <li>Use readily recyclable packaging materials such as paper and corrugated materials.</li> </ul>	
	Reduce size and weight of packages to improve transportation fuel efficiency.	
	<ul> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120</li> </ul>	
	standards.	
End-of-life Management and	HP offers end-of-life HP product return and recycling programs in many geographic areas.	
Recycling	To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your	
	nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of	
	in a responsible manner.	
	The ELLWEEE directive (2002/05/EC) requires manufacturers to provide treatment	
	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:	
	uisassembly mistractions) is posted on the newtert Packard web site at.	



## **Technical Specifications**

	http://www.hp.com/go/recyclers. 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.	
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:  Global Citizenship Report     http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html  Eco-label certifications     http://www8.hp.com/us/en/hp-information/environment/ecolabels.html  ISO 14001 certificates:     http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842     and     http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf	
footnotes	<ul> <li>Percentage of ocean-bound plastic contained in each component varies by product</li> <li>Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li> <li>External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li> <li>100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li> <li>Fiber cushions made from 100% recycled wood fiber and organic materials.</li> <li>Plastic cushions are made from &gt;90% recycled plastic.</li> </ul>	



### **Technical Specifications**

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### Summary

Change Log				
July 22, 2022	V1 to V2	Updated	Pallet Information	
July 28, 2022	V2 to V3	Updated	Pallet Information and Contains Recycled Plastics	
March 6, 2023	V3 to V4	Added	Mercury-free LED display backlighting	
April 12, 2023	V4 to V5	Updated	Color Management section	
	V5 to V6			

