HP P22h G5 FHD Monitor

Technical Specifications

HP P22h G5 FHD Monitor



1. Power Button

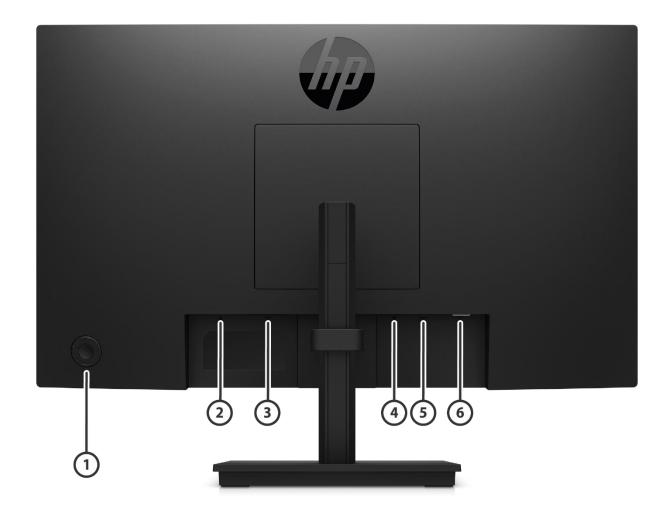
Front 2. Power LED



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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: 64W30AA

Panel Specifications	Display Size (Diagonal)	21.5 inch
	Panel Technology	IPS
	Max Refresh Rate	75 Hz
	Native Resolution	1920 x 1080
	Panel Bit Depth	8 bit (6 bit + FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	250nits
	Contrast Ratio (Static)	1000:1
	Dynamic Contrast Ratio	8M:1
	Flicker Free	Yes
	Pixel Pitch	0.25 mm x 0.25 mm
	Pixels Per Inch (PPI)	102 PPI
	Display Colors	Up to 16.7 million colors supported
	Backlight Lamp Life Minimum (To Half	30k
	Brightness - In Hours)	
	Backlight Type	Edge-Lit
	Screen Treatment	Anti-glare
	Hardness	3H
	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle (Typical	178°
	Cr>10)	
	Vertical Viewing Angle (Typical Cr>10)	178°
	Panel Active Area Metric (W X H)	47.60 x 26.77 cm
	Panel Active Area Imperial (W X H)	18.74 x 10.54 in
	NOTE: Performance specifications represent the	he 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, YCBCR 4:4:4, YCBCR 4:2:2
j	RGB Channel Adjust	Yes, Gain
	Default Color Temperature	Neutral (6500K)
Monitor Specifications	Bezel Type	3-sided borderless
	Color Of Stand	Black
	Color Of Head	Black
	Tilt	-5 to +23°
	Height Adjust Range	100 mm
	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)
	Low Blue Light	Yes, (TÜV certified)
	Speaker Output Power	2 X 2w
	Management Software	HP Display Center, HP Display Manager*

HP P22h G5 FHD Monitor

Technical Specifica	ations	
	Display Software	*Host PC requires Windows 10. HP Display Center is available on the Microsoft store.
On Screen Display (OSD)	On Screen Display	Brightness, Color, Image, Input, Power, Menu, Management, Information, Exit
	Native Resolution	FHD (1920 x 1080) NOTE: DisplayPort 1.2 & 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 60 Hz with 8-bit color using one HDMI or VGA."
	Maximum Resolution	1920 x 1080 (FHD)
	Preset Graphic Modes/Supported	720 x 400 @ 70Hz
	Resolutions	640 x 480 @ 60Hz
		640 x 480 @ 75Hz(Digital port only)
		800 x 600 @ 60Hz
		800 x 600 @ 75Hz(Digital port only)
		1024 x 768 @ 60Hz
		1024 x 768 @ 75Hz(Digital port only) 1280 x 720 @ 60 Hz
		1280 x 800 @ 60 Hz
		1280 x 1024 @ 60 Hz
		1280 x 1024 @ 75Hz(Digital port only)
		1440 x 900 @ 60 Hz
		1600 x 900 @ 60 Hz
		1680 x 1050 @ 60 Hz
		1920 x 1080 @ 60 Hz
		1920 x 1080 @ 75 Hz
	Minimum Vertical Scan Rate	48 Hz
	Maximum Vertical Scan Rate	75 Hz
	Minimum Horizontal Scan Rate	30 KHz
	Maximum Horizontal Scan Rate	86 KHz
	Maximum Pixel Clock	180 MHz
	User Programmable Modes	Yes, 10
	User-Assignable Function Buttons	Yes, 4(7 options)
	Audio	Built-in speakers 11 (English, French, German, Italian, Dutch, Spanish,
	Languages	Japanese, Portuguese, Russian, Traditional Chinese, and
		Simplified Chinese)
Connector Types	DisplayPort™	1 DisplayPort™ 1.2
71	НОМІ	1 HDMI 1.4
	HDCP	Yes, DisplayPort and HDMI
	VGA	1 VGA
Special Features	SWITCH	Monitor Power button Next Active Input / Up button Brightness / Down button Information / Left button Color / Right button



HP P22h G5 FHD Monitor

	User Presets	Menu / Enter button 11 (VGA)/ 16 (HDMI and DP)
Power & Operating	Power Supply	Internal
Specs	Power Source	100~240 VAC 50/60 Hz
Shere	Power Consumption- Max	28W
	Energy Saving/Stand By Mode	0.5W
	Power Consumption - Typical	18W
	Power consumption - Typicat	1800
Energy Star Data	Operational Mode at 100 VAC	13W
	Operational Mode at 115 VAC	13W
	Operational Mode at 230 VAC	13W
EU Energy Efficiency	On-mode Power Consumption for	15 W
Class (ErP LOT-5)	Standard Dynamic Range (SDR)	
	ErP LOT5 Energy Efficiency Class for	A I G
	Standard Dynamic Range (SDR)	Ġ
Operating Conditions	Operating Temperature - Celsius	5° – 35°C
	Operating Temperature - Fahrenheit	41° – 95°F
	Non-Operating Temperature - Celsius	–40° – 65°C
	Non-Operating Temperature -	-40° – 149°F
	Fahrenheit	
	Operating Humidity	20 – 80% Relative Humidity (non-condensing)
	Non-Operating Humidity	5 – 95%
	Operating Altitude	0 – 5,000 m (16,400 ft.)
	Non-operating Altitude	0 – 12,192 m (40,000 ft.)
Certifications and	Low Halogen	Yes*
Compliances		*External power supplies, WWAN modules, power cords,
		cables and peripherals excluded.
	Agency Approvals and Certifications	WW application
		CE/CB/EUP Lot 6 and Lot 26/Erp/RoHS/TUV-
		Bauart/cTUVus/FCC/ ICES/ CEC/Energy Star/TCO/TCO
		Edge /China CCC/CEL/CECP/SEPA/Korea KC/Korea
		KCC/Korea e-Standby/VCCI/PSE/RCM/Australia
		MEPS/India BIS/Taiwan BSMI/Mexico NOM/Mexico
		energy/South Africa NRCS LoA and energy/Argentina S-
		Mark/Singapore PSB/Cambodia ISC/EAC/EAEU
		RoHS/UAE/UAE RoHS/ ISO 9241-307/Low blue light/
		Flicker Free/Vietnam MEPS/Ukraine Energy/ Ukraine CoC
	Microsoft WHQL Certification	Win 11, Win 10, Win 8, Win 7
	ENERGY STAR [®] Certified	Yes, ENERY STAR®
	EPEAT [®] Registered	EPEAT [®] registered*
	Regions need to verify by country	
		*Based on US EPEAT® registration according to IEEE
		1680.1-2018 EPEAT [®] . Status varies by country. Visit
		http://www.epeat.net for more information.
	China Energy Label	CEL Grade 1



	TCO Certified Edge	Yes	
	TCO Certified	Yes	
	SmartWay Transport Partnership - NA	Yes (NA sku)	
	only		
Contains Recycled	Contains Recycled Plastics	85% ITE-derived closed loop	plastic*
Plastics	-	*Recycled plastic content pe	rcentage is based on the
		definition set in the IEEE 168	0.1-2018 standard.
	Recyclable Packaging (Box, packing	Molded Paper Pulp Cushion i	nside box is 100%
	materials)	sustainably sourced and recy	vclable*
		*100% outer box packaging	and corrugated cushions
		made from sustainably sour	ced certified and recycled
		fibers.	
		<u>Metric</u>	<u>Imperial</u>
Unit Product/Package	Product Dimensions	48.84 x 19.64 x 44.95cm	19.23 X 7.73 X 17.7 in
Specifications	(Unpacked with stand) (W x D x H)		
	Product Dimensions	56.7x 13.3 x 38.7 cm	22.32 x 5.24x15.24 in
	(Packed) (W x D x H)		
	Display Head Dimensions	48.84 X 5.12 X 29.43 cm	19.23 X 2.02 X 11.59 in
	(Unpacked without stand) (W x D x H)		
	Base Area Footprint	178 x 185 mm	7.01 x 7.28 in
	(w x d mm)		
	Bezel Measurements	Bottom: 19.3 mm	Bottom: 0.76 in
	(Unpacked with stand) (W x D x H)		
	Product Weight	4.05 kg	8.93 lb
	(Unpacked with stand)		
	Product Weight	5.75 kg	12.68 lb
	(Packed)		
	Product Weight	2.8 kg	6.17 lb
	(Head Only)		
Pallet Information	Pallet Dimensions	Slip Sheet:	Slip Sheet:
	(L x W x H mm)	1153 x 1080x 2339 mm (40ft)	44.29x39.21x 79.37 inch (40ft)
		Pallet:	Pallet:
		1150 x 1080 x 2075 mm	45.08x38.98x 83.98 inch
		(40ft)	(40ft)
	Pallet Total Weight	Slip Sheet:	Slip Sheet:
		555 kg (40ft)	1224 lb (40ft)
		Pallet:	Pallet:
		575 kg (40ft)	1268 lb (40ft)
	Pallet Layers	6 per layer and 6 per layer (s	
	Dallat Draduct par Lawar	5 per layer and 5 per layer (s	up sheet & patter) for SC
	Pallet Product per Layer	16 layers per pallet	
	Total Products per Pallet	96 sets and 80 sets (slip she	
	Container Load, 20-Foot	800 sets and 800sets (slip sh	
	Container Load, 40-Foot	1760 sets and 1760 sets (slip	· ·
	Container Load, 40-Foot HighQ	2112 sets and 2112 sets (Sli	p sneet and pallet)

Technical Specifications

What's in the box?	AC power cord (1.83m) 6 ft VGA cable (1.8m) 5.9 ft (Japan Only DP cable (1.8m) 5.9 ft (Japan and E HDMI cable (1.8m) 5.9 ft Quick Setup Poster Doc kit Warranty card	
User Guide and Warranty Languages	User Guide Languages	Arabic, Bahasa Indonesia, Bulgarian, T, Czech, Danish, Dutch, English, Est French, German, Greek, Hebrew, Hur Japanese, Kazakh, Korean, Latvian, I Norwegian, Polish, Portuguese (Braz (Iberian), Romanian, Russian, Serbia Spanish, Swedish, Thai, Turkey, Ukra
	Warranty Languages	English US (EN), English AP (EN-AP), English UK (EN-GB), Arabic (AR) -17x (ID), Bosnian (BS), Bulgarian (BG), Ch Chinese-T (TW), Croatian (HR), Czech Dutch (NL), Estonian (ET), Finnish (FI (FC), French European (FR), German Hebrew (HE), Hungarian (HU), Italian Kazakh (KK), Korean (KO), Latvian (L

n, Chinese-S, Chinesetonian, Finnish, Ingarian, Italian, Lithuanian, azilian), Portuguese an, Slovak, Slovenian, rainian , English LA (EN-LA), x, Bahasa Indonesia hinese-S (CN), h (CS), Danish (DA), FI), French Canadian (DE), Greek (EL), n (IT), Japanese (JA), (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

ENVIDONMENTAL DATA

co-Label Certifications &	This product has received	or is in the process of being cer	tified to the following approvals		
eclarations		ne or more of these marks:			
	IT ECO declaration	n			
	US ENERGY STAR®	B			
	US Federal Energy	y Management Program (FEMP)			
		stered in the United States. See			
	registration statu		·····		
	TCO Certified				
		servation Program (CECP)			
		onmental Protection Administra	ation (SEPA)		
	Taiwan Green Mai				
	Korea Eco-label				
	Japan PC Green la	abol*			
		ibet			
ustainable Impact	• 85% ITE – derived closed	lloon plastic			
pecifications	Low halogen				
pecifications	-				
		Outside Box and corrugated cushions are 100% sustainably sourced and recyclable Molded Baper Bulb Cushion inside box is 100% sustainably sourced and recyclable			
	 Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable Recycled Plastic cushions 				
ystem Configuration			Declared Noise Emissions data for		
ystem comgulation	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".				
nergy Consumption					
in accordance with US ENERGY					
TAR [®] test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short idle)	10.92 W	11.01 W	10.98 W		
Normal Operation (Long idle)	10.92 W	11.01 W	10.98 W		
Sleep	0.31 W	0.33 W	0.3 W		
Off	0.26 W	0.28 W	0.24 W		
	Note:				
	Energy efficiency data listed is for an ENERGY STAR [®] compliant product if offered within the				
	model family. HP computers marked with the ENERGY STAR [®] Logo are compliant with the				
	applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for				
	computers. If a model family does not offer ENERGY STAR [®] compliant configurations, then				
	energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a				
	high efficiency power supply, and a Microsoft Windows [®] operating system.				
	5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
leat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short idle)	37.3 BTU/hr	37.7 BTU/hr	37.6 BTU/hr		
Normal Operation (Long idle)	37.3 BTU/hr	37.7 BTU/hr	37.6 BTU/hr		
Sleep	1.1 BTU/hr	1.1 BTU/hr	1 BTU/hr		
•					
Off	0.9 BTU/hr	1 BTU/hr	0.8 BTU/hr		



Longevity and Upgrading	This product	can be upgraded, possibly extending its useful life t	w several vears	
Longevity and opgrading	-	features and/or components contained in the	y several years.	
	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 (Rol directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold levisee www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043. This product is 95.6% recycle-able when properly disposed of at end of life. 			
Packaging Materials	External:	PAPER/Corrugated	531 g	
		PAPER/Molded Pulp	737 g	
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	25 g	
		PLASTIC/Polyethylene low density	5 g	
	The plastic packaging material contains at least 0.0% recycled content.			
	The corrugated paper packaging materials contains at least 90% recycled content.			
RoHS Compliance	extend the re (RoHS) Direct development We believe th industry-wid additional su legislation th	lies fully with materials regulations. We were amon estrictions in the European Union (EU) Restriction of tive to our products worldwide through the HP GSE. t of related legislation in Europe, as well as China, In ne RoHS directive and similar laws play an important e elimination of substances of concern. We have sup bstances—including PVC, BFRs, and certain phthala nat pertains to electrical and electronics products.	Hazardous Substances HP has contributed to the Idia, and Vietnam. It role in promoting Oported the inclusion of Ites—in future RoHS	
	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	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications html):			



	 Asbestos Certain Azo Colorants 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) Dibutyl phthalate (DBP) Dibutyl phthalate (DBP) Dibutyl phthalate (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 Biphenyl (PBBs) Polybrominated Biphenyl (PCB) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging 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. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. 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 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: 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	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
	 External power supplies, WWAN modules, power cords, cables and peripherals excluded.
	 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
	 Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic.

Technical Specifications

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Summary

Change Log				
July 28, 2022	V1 to V2	Updated	Contains Recycled Plastics	
November 22, 2022	V2 to V3	Updated	Backlight Type	
November 28, 2022	V3 to V4	Updated	EU Energy Efficiency Class (ErP LOT-5)	
	V4 to V5			

