**Technical Specifications** 

### **HP P27h G5 FHD Monitor**



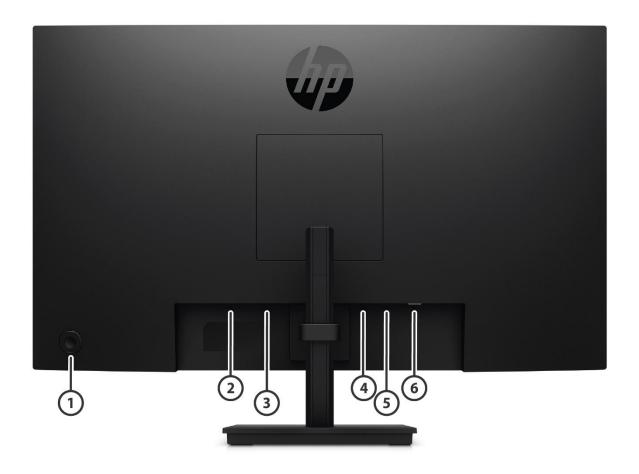
I. Power Button

#### **Front**

2. LED Power

## **Technical Specifications**

### **HP P27h G5 FHD Monitor**



- 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: 64W41AA

Panel SpecificationsDisplay Size (Diagonal)27 inchPanel TechnologyIPS

75 Hz

Max Refresh Rate NOTE: 75Hz refresh rate can be supported via HDMI and DP

cable connection only. 60 Hz refresh rate with VGA.

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

Aspect Ratio 16:9
Brightness (Typical) 250nits
Contrast Ratio (Static) 1000:1
Dynamic Contrast Ratio 8M:1

Flicker FreeYes (TÜV certified)Pixel Pitch0.311 x 0.311 mm

Pixels Per Inch (PPI) 82 PPI

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

30k

**Backlight Lamp Life Minimum (To Half** 

**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 Cr>10)

Vertical Viewing Angle (Typical Cr>10)

178°

Panel Active Area Metric (W x H) 59.79 x 33.63 cm Panel Active Area Imperial (W x H) 23.54 x 13.24 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, YCBCR 4:4:4, YCBCR 4:2:2

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 StandBlackColor Of HeadBlackTilt-5 to +20°Height Adjust Range100 mm

**Vesa Mounting** 100 mm x 100 mm

Security Lock Slot Standard Security Lock Slot

#### **Technical Specifications**

**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 2 W

Management Software 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 support.hp.com to download HP

CMSL.

\*\*Host PC requires Windows 10 and above. 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

Preset Graphic Modes/Supported

Resolutions

1920 x 1080 (FHD) 720 x 400 @ 70Hz

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 @ 75 Hz (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 Rate48HzMaximum Vertical Scan Rate75HzMinimum Horizontal Scan Rate30KHzMaximum Horizontal Scan Rate86KHzMaximum Pixel Clock180MHzUser Programmable ModesYes,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)

#### **Technical Specifications**

**Connector Types** DisplayPort™ 1 DisplayPort™ 1.2

HDMI 1 HDMI 1.4

**HDCP** Yes, DisplayPort and HDMI

**VGA** 1 VGA

Monitor Power button **Special Features SWITCH** 

> Next Active Input / Up button Brightness / Down button Information / Left button Color / Right button Menu / Enter button

11 (VGA)/ 16 (HDMI and DP) **User Presets** 

Power & Operating **Power Supply** 

**Specs** 

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

**Power Consumption- Max** 35W **Energy Saving/Stand By Mode** 0.5W **Power Consumption - Typical** 21W

**Energy Star Data** Operational Mode at 100 VAC 16W Operational Mode at 115 VAC 16W

Operational Mode at 230 VAC 16W

**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)

16W



5° – 35°C

Internal

**Operating Conditions Operating Temperature - Celsius** 

**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 Compliances** 

Mercury-free LED display backlighting

Low Halogen

Yes, Mercury-free LED backlighting

\*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-



#### **Technical Specifications**

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 WHOL Certification** Win 11, Win 10, Win 8, Win 7 **ENERGY STAR® Certified** Yes **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. CEL Grade 1\* **China Energy Label** \*Monitors produced from June 2024 comply with China regulation GB 21520-2023. 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\* \*Recycled plastic content percentage is based on the definition **Plastics** set in the IEEE 1680.1-2018 standard. Recyclable Packaging (Box, packing Molded Paper Pulp Cushion inside box is 100% materials) sustainably sourced and recyclable\* \*100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. **Metric Imperial Unit Product/Package Product Dimensions** 61.1 x 20.23 x 50.97 cm 24.06 x 7.96 x 20.07 in **Specifications** (Unpacked with stand) (W x D x H) **Product Dimensions** 68.5 x 14.1x 42.5 cm 26.97 x 5.55 x 16.73 in (Packed) (W x D x H) **Display Head Dimensions** 61.1 x 5.71 x 36.56 cm 24.06 x 2.25 x 14.39 in (Unpacked without stand) (W x D x H) **Base Area Footprint** 182 x 194 mm 7.17x 7.64 in  $(w \times d mm)$ **Bezel Measurements** Bottom 21.7 mm Bottom 0.85 in

(Unpacked with stand) (W $\times$ D $\times$ H)		
Product Weight	5.75 kg	
/11		

(Unpacked with stand)	
Product Weight	
(Packed)	

Product Weight (Head Only)

Information	Pallet Dimensions		
	(L x W x H mm)		

Slip Sheet: 1153 x 700 x 2141 mm (20ft & 40ft & 40HQ) Pallet:

8.03 kg

4.49 kg

Slip Sheet:

12.68 lb

17.70 lb

9.9 lb

45.39 x 27.56 x 84.29 inch (20ft & 40ft & 40H0)

Pallet:

**Pallet** 

#### **Technical Specifications**

1150 x 700 x 2269 mm 45.28 x 27.56 x 89.33 inch

(20ft & 40ft & 40HQ) (20ft & 40ft & 40HQ)

Pallet Total WeightSlip Sheet:Slip Sheet:

325 kg 717 lb

(20ft & 40ft & 40HQ) (20ft & 40ft & 40HQ)

Pallet: Pallet: 345kg 761 lb

(20ft & 40ft & 40HQ) (20ft & 40ft & 40HQ)

Pallet Layers 8 layers per pallet

Pallet Product per Layer5 per layer (slip sheet & pallet)Total Products per Pallet40 sets (slip sheet & pallet)

Container Load, 20-Foot640 sets and 640 sets (slip sheet and pallet)Container Load, 40-Foot1360 sets and 1360 sets (slip sheet and pallet)Container Load, 40-Foot HighQ1360 sets and 1360 sets (slip sheet and pallet)

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, EMEA AF SKUs, and NA only)

HDMI cable (1.8m) 5.9 ft QUICK SETUP POSTER

Doc kit

Warranty card

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**

ENVIRONMENTAL DATA			
ECO-Label Certifications & declarations	This product has received of labeled with one or more of the labeled with one or more of the labeled with labe	of these marks:  Management Program (FE stered in the United States. ntry.  Servation Program (CECP) onmental Protection Admin	See http://www.epeat.net for registration
Sustainable Impact Specifications	<ul><li>Molded Paper Pulp Cushio</li><li>Recycled Plastic cushions</li></ul>	eed cushions are 100% sust on inside box is 100% susta	ainably sourced and recyclable inably sourced and recyclable
System Configuration	The configuration used for the Energy Consumption and Declared 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)	12.16 W	12.09 W	12.21 W
Normal Operation (Long idle)	12.16 W	12.09 W	12.21 W
Sleep	0.15 W	0.17 W	0.15 W
Off	0.11 W	0.13 W	0.11 W
	family. HP computers mark Environmental Protection	ked with the ENERGY STAR® Agency (EPA) ENERGY STAR	compliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model purations, then energy efficiency data listed is
		C featuring a hard disk driv	e, a high efficiency power supply, and a
Heat Dissipation*	for a typically configured P	C featuring a hard disk driv	
Heat Dissipation*  Normal Operation (Short idle)	for a typically configured P Microsoft Windows® opera	C featuring a hard disk driv ting system.	e, a high efficiency power supply, and a
Normal Operation (Short	for a typically configured P Microsoft Windows® opera 115VAC, 60Hz	C featuring a hard disk driv ting system. 230VAC, 50Hz	e, a high efficiency power supply, and a  100VAC, 50Hz
Normal Operation (Short idle)  Normal Operation (Long	for a typically configured P Microsoft Windows® opera  115VAC, 60Hz 41.6 BTU/hr  41.6 BTU/hr  0.5 BTU/hr	C featuring a hard disk driv ting system.  230VAC, 50Hz  41.3 BTU/hr  41.3 BTU/hr  0.6 BTU/hr	e, a high efficiency power supply, and a  100VAC, 50Hz 41.8 BTU/hr 41.8 BTU/hr 0.5 BTU/hr
Normal Operation (Short idle) Normal Operation (Long idle)	for a typically configured P Microsoft Windows® opera 115VAC, 60Hz 41.6 BTU/hr 41.6 BTU/hr	C featuring a hard disk driv ting system.  230VAC, 50Hz  41.3 BTU/hr  41.3 BTU/hr	e, a high efficiency power supply, and a  100VAC, 50Hz  41.8 BTU/hr  41.8 BTU/hr

## **Technical Specifications**

Longevity and Upgrading	This product	can be upgraded, possibly extending its useful life by seve	eral years. 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	<ul> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.</li> <li>This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net</li> <li>Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.</li> <li>This product is 97.2% recycle-able when properly disposed of at end of life.</li> </ul>		
Packaging Materials	External:	PAPER/Corrugated	827 g
		PAPER/Molded Pulp	1406 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	30 g
		PLASTIC/LDPE(Polyethylene low density)	16 g
	The plastic p	packaging material contains at least 0.0% recycled conten	t.
		ted paper packaging materials contains at least 90% recyc	
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	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):		
	<ul> <li>Cert</li> <li>Cert</li> <li>Cadı</li> <li>Chlo</li> <li>Chlo</li> <li>Bis(i</li> <li>Benz</li> <li>Dibu</li> </ul>	estos ain Azo Colorants ain Brominated Flame Retardants – may not be used as fla mium rinated Hydrocarbons rinated Paraffins 2-Ethylhexyl) phthalate (DEHP) zyl butyl phthalate (BBP) ityl phthalate (DBP)	ame retardants in plastics



## **Technical Specifications**

	<ul> <li>Formaldehyde</li> <li>Halogenated Diphenyl Methanes</li> <li>Lead carbonates and sulfates</li> <li>Lead and Lead compounds</li> <li>Mercuric Oxide Batteries</li> <li>Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>Ozone Depleting Substances</li> <li>Polybrominated Biphenyls (PBBs)</li> <li>Polybrominated Biphenyl Ethers (PBBEs)</li> <li>Polybrominated Biphenyl Oxides (PBBOs)</li> <li>Polychlorinated Biphenyl (PCB)</li> <li>Polychlorinated Terphenyls (PCT)</li> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>Radioactive Substances</li> <li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
Packaging Usage	<ul> <li>HP follows these guidelines to decrease the environmental impact of product packaging:</li> <li>Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>Design packaging materials for ease of disassembly.</li> <li>Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>
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: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> 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: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a> . 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



### **Technical Specifications**

	-  -	,	 	_
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.
- 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.

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## Summary

Change Log			
March 6, 2023	V1 to V2	Added	Mercury-free LED display backlighting
April 12, 2023	V2 to V3	Updated	Color Management section
October 24, 2023	V3 to V4	Updated	What's in the box? Section
February 1, 2024	V4 to V5	Added	Panel Specifications Section
April 15, 2024	V5 to V6	Updated	China Energy Label
December 17, 2024	V6 to V7	Updated	HP Client Management Script Library (CMSL) Footnote

