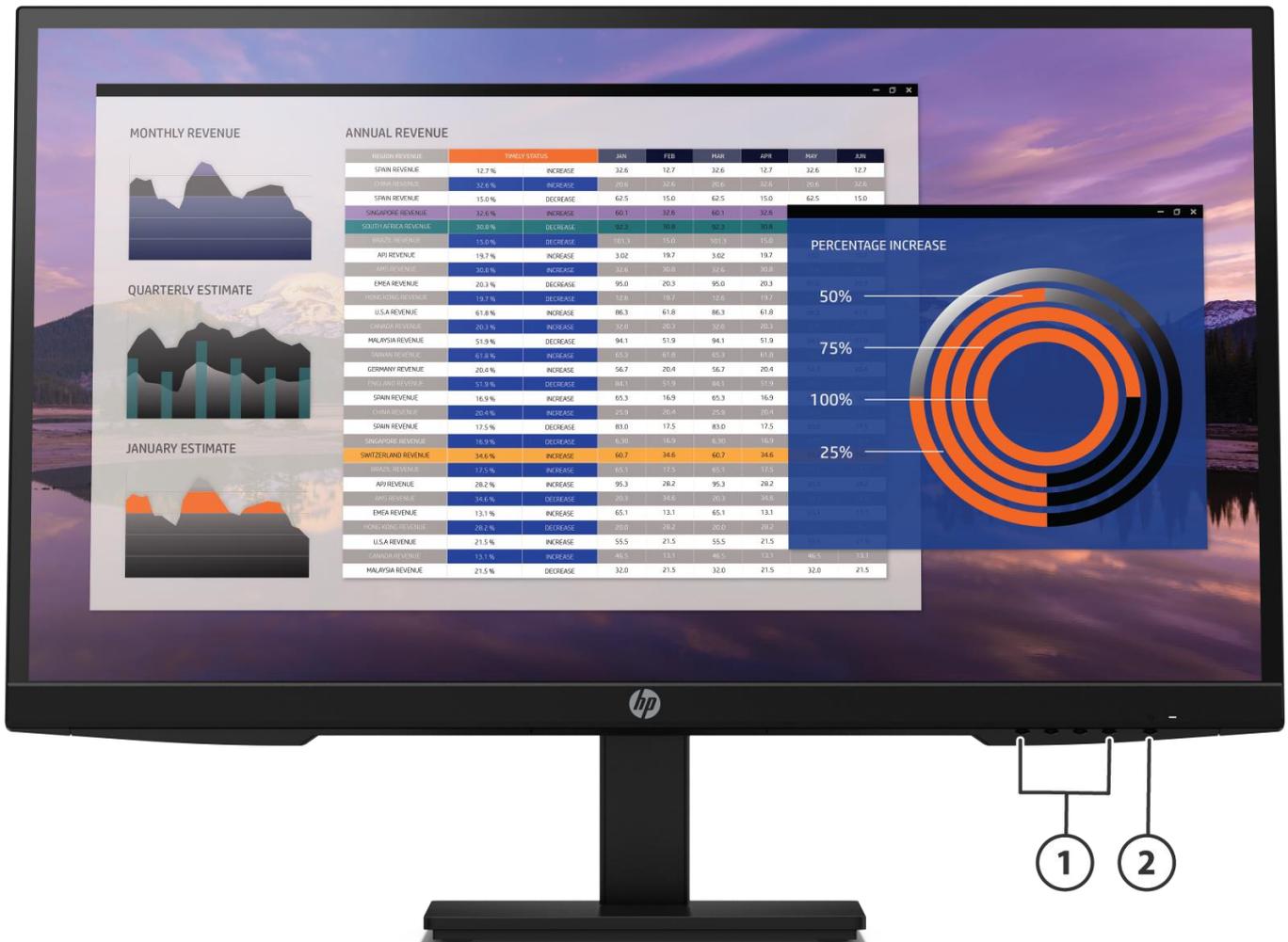


### Technical Specifications

#### HP P27h G4 27-inch Monitor



#### Front

1. Function Buttons

2. Power Button

### Technical Specifications

#### HP P27h G4 27-inch Monitor



#### Back

- |                           |                                       |
|---------------------------|---------------------------------------|
| 1. Power Connector        | 4. VGA Port                           |
| 2. DisplayPort™ Connector | 5. Audio-in Jack (Select models only) |
| 3. HDMI Port              | 6. Security Cable Slot                |

### Technical Specifications

**Models:** ZVH96AA

<b>Panel Specifications</b>	<b>Display Size (Diagonal)</b>	27-in
	<b>Display Panel Type</b>	IPS
	<b>Micro-Edge Bezel</b>	Yes, 3-sided
	<b>Native Resolution/Timing</b>	1920×1080 @ 60 Hz
	<b>Native Resolution Note*</b>	1 VGA, 1 HDMI 1.4, 1 DisplayPort 1.2
	<b>Panel Bit Depth</b>	6bit + AFRC
	<b>Aspect Ratio</b>	16:9
	<b>Brightness - Typical</b>	250 cd/m <sup>2</sup>
	<b>Static Contrast Ratio - Typical</b>	1000:1
	<b>Static Contrast Ratio - Minimum</b>	700:1
	<b>Dynamic Contrast Ratio (DCR)</b>	8,000,000:1
	<b>Flicker Free</b>	Yes
	<b>Pixel Pitch</b>	0.3114(H)mm x 0.3114(V)mm
	<b>Pixels Per Inch (PPI)</b>	82
	<b>Backlight Lamp Life (to half brightness - in hours)</b>	30k minimum
	<b>Anti-Glare Panel</b>	Yes
	<b>Response Time - Typical</b>	5 ms (gray to gray)
	<b>Horizontal Viewing Angle (typical CR&gt;10)</b>	178°
	<b>Vertical Viewing Angle (typical CR&gt;10)</b>	178°
	<b>Panel Active Area (w x h)</b>	597.89mm x 336.31 mm
	<b>Preset Graphic Modes/Supported Resolutions</b>	640 x 480 @ 60 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1366 x 768 @ 60 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 60 Hz
	<b>Maximum Resolution</b>	1920 x 1080 @ 75 Hz
	<b>Recommended Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Vertical Scan Range</b>	48Hz - 75Hz
	<b>Horizontal Scan Range</b>	30KHz - 86KHz
	<b>Default Color Temperature</b>	Neutral (6500 K)
	<b>Maximum Pixel Clock Speed</b>	180 MHz
	<i>*VGA or DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution</i>	

NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<b>Color Gamut Coverage</b>	<b>NTSC</b>	72%
<b>Color Management</b>	<b>Factory Color Calibrated</b>	Yes
	<b>Factory Color Presets</b>	Warm - 5000K Neutral - 6500K Cool - 9300K

### Technical Specifications

	<b>Color Space / Subsampling Support</b>	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	<b>Default Color Temperature</b>	Neutral (6500 K)
	<b>Low Blue Light Modes</b>	Yes
	<b>RGB Channel Adjust</b>	Yes, Gain
<b>Monitor Specifications</b>	<b>Exterior Color of Monitor Bezel and Stand</b>	Black
	<b>Plug &amp; Play</b>	Yes
	<b>Tilt</b>	-5° to +23°
	<b>Swivel</b>	360°
	<b>Pivot</b>	Clockwise 90°
	<b>Height Adjustment Range</b>	100 mm
	<b>VESA Mounting</b>	Yes
	<b>Security Lock Ready</b>	Yes
	<b>Detachable Base</b>	Yes
	<b>Warranty</b>	Based on region
<b>Multimedia</b>	<b>Speakers</b>	Yes, 1 pair
	<b>Speakers Output Power</b>	2 W per channel
<b>On Screen Display (OSD)</b>	<b>On Screen Display User Controls</b>	Brightness+, Color, Image ,Input, Power, Menu, Management, Information, Exit
	<b>User Programmable Modes</b>	Yes, 20
	<b>Monitor Control Buttons or Switches</b>	Menu/OK, Minus ("-")/Brightness, Plus ("+")/Color , Back/Input, Power
	<b>User-Assignable Function Buttons</b>	Yes, 3 (5 options)
	<b>Audio Controls</b>	Yes, Volume
	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
<b>Connector Types</b>	<b>DisplayPort™</b>	1, DisplayPort™ 1.2
	<b>HDMI</b>	1, HDMI 1.4
	<b>VGA</b>	1
	<b>HDCP support</b>	Yes, (DisplayPort™ and HDMI)
	<b>Audio Input</b>	1, Analog
<b>Power &amp; Operating Specs</b>	<b>Power Supply</b>	Internal
	<b>Power Source</b>	100 – 240 VAC 50/60 Hz
	<b>Power Consumption - Maximum</b>	28 W
	<b>Energy Saving/Standby Mode</b>	0.3 W
	<b>Power Consumption - Typical</b>	24 W
	<b>Power cable length</b>	1.9 m
<b>Energy Star Data</b>	<b>Operational Mode at 100 VAC</b>	14.8 W >16.5 W
	<b>Operational Mode at 115 VAC</b>	14.8 W >16.5 W
	<b>Operational Mode at 230 VAC</b>	14.8 W >16.5 W
<b>EU Energy Efficiency Class (EC1062)</b>	<b>On-mode Power Consumption (EC 1062/2010)</b>	78.53 W >16.45 W
	<b>Annual Power Consumption (EC 1062/2010)</b>	21.6 kWh >24 kWh
	<b>Energy Efficiency Class (EC 1062/2010)</b>	A >A+
<b>Operating Conditions</b>	<b>Operating Temperature - Celsius</b>	5°– 35°C
	<b>Operating Temperature - Fahrenheit</b>	41°C -95°F

### Technical Specifications

	<b>Non-operating Temperature - Celsius</b>	-20° – 60°C
	<b>Non-operating Temperature - Fahrenheit</b>	29° - 140°F
	<b>Operating Humidity</b>	20 – 80% Relative Humidity (non-condensing)
	<b>Non-operating Humidity</b>	5 – 95%
	<b>Operating Altitude</b>	0 - 5,000 m (16,400 ft.)
	<b>Non-operating Altitude</b>	0 – 12,192 m (40,000 ft.)
<b>Environmental Features and Certifications</b>	<b>Mercury-free LED display backlighting</b>	Yes, Mercury-free LED backlighting
	<b>Arsenic-Free Display Glass</b>	Yes
	<b>Low Halogen**</b>	Yes GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR, PVC) NOTE: External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
	<b>Agency Approvals and Certifications</b>	CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, ISO 9241-307 / EAC, UL, CSA, PSB, ISC, CCC, CEL, Energy Star, ISC, VCCI, FCC, BSMI, Vietnam MEPS, Australian-New Zealand MEPS, WEEE
	<b>Microsoft WHQL Certification</b>	Win 10, Win 8, Win 7
	<b>ENERGY STAR®</b>	Yes, ENERGY STAR® 8
	<b>EPEAT® 2019 Registered*</b>	Yes, Sliver
	<b>China Energy Label</b>	CEL Grade 1
	<b>TCO Certified</b>	Yes
	<b>SmartWay Transport Partnership - NA only</b>	Yes (NA SKU)

\* Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.

\*\*External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Note: DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

		<b>Metric</b>	<b>Imperial</b>
<b>Unit Product/Package Specifications</b>	<b>Product Dimensions</b> (Unpacked with stand) (W x D x H)	62.01 x 21.16 x 50.95 cm	24.41 x 8.33 x 20.05 in
	<b>Product Dimensions</b> (Packed) (W x D x H)	69.6 x 19.0 x 46.0 cm	27.4 x 7.48 x 18.1 in
	<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	62.01 x 21.16 x 37.14 cm	24.41 x 8.33 x 14.62 in
	<b>Base Area Footprint</b> (w x d mm)	214.6 x 211.6 mm	8.45 x 8.33 in
	<b>Bezel Measurements</b>	Bottom 22.7 mm	Bottom 0.9 in
		<b>Product Weight</b> (Unpacked with stand)	5.22 kg
<b>Pallet Information</b>	<b>Product Weight</b> (Packed)	7.17 kg	15.77 lb
	<b>Product Weight</b> (Head Only)	3.1 kg	6.84 lb
	<b>Pallet Dimensions</b> (L x W x H)	1280 x 1100 x 126 mm	50.39 x 43.31 x 4.96 in

### Technical Specifications

<b>Pallet Total Weight</b> (L x W x H)	304.3 Kg	676.45 lbs
<b>Pallet Layers</b>	4	
<b>Pallet Product per Layer</b>	10	
<b>Total Products per Pallet</b>	40	
<b>Container Load, 20-Foot</b>	320 units	
<b>Container Load, 40-Foot</b>	720 units	
<b>Container Load, 40-Foot HighQ</b>	900 units	

**Software Included** HP Display Assistant

<b>What's in the box?</b>	AC Power Cord	(1.9m) 6.2 ft
	Audio Cable	(1.8m) 5.9 ft
	VGA Cable	(1.8m) 5.9 ft
	HDMI Cable	(1.8m) 5.9 ft

<b>User Guide and Warranty Languages</b>	<b>User Guide Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	<b>Warranty Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.

<b>Environmental Data</b>	<b>Eco-Label Certifications &amp; declarations</b>	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: <ul style="list-style-type: none"> <li>IT ECO declaration</li> <li>US ENERGY STAR®</li> <li>TCO 8.0</li> <li>EPEAT® Silver registered in the United States. See <a href="http://www.epeat.net">http://www.epeat.net</a> for registration status in your country.</li> <li>US Federal Energy Management Program (FEMP)</li> </ul>		
	<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
	Normal Operation	15.04 W	15.10 W	15.06 W
	Sleep	0.16 W	0.20 W	0.15 W
	Off	0.11 W	0.14 W	0.10 W
	<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
	Normal Operation	51 BTU/hr	52 BTU/hr	51 BTU/hr
	Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
	Off	0 BTU/hr	0 BTU/hr	0 BTU/hr
		*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		

### Technical Specifications

	<b>Additional Information</b>	<ul style="list-style-type: none"> <li>This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/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 silver level, see <a href="http://www.epeat.net">http://www.epeat.net</a></li> <li>Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.</li> <li>This product contains 55% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1.</li> <li>This product is 97.0% recycle-able when properly disposed of at end of life.</li> </ul>	
	<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated 956 g
		<b>Internal:</b>	PLASTIC/EPS (Expanded Polystyrene) 474 g
			PLASTIC/Polyethylene Expanded - EPE 37 g
			PLASTIC/Polyethylene high density - HDPE 8 g
	<b>RoHS Compliance</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a>.</p>	

### Technical Specifications

	<p><b>Material Usage</b></p>	<p>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 <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html">http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html</a>):</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Certain Azo Colorants</li> <li>• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li> <li>• Cadmium</li> <li>• Chlorinated Hydrocarbons</li> <li>• Chlorinated Paraffins</li> <li>• Bis(2-Ethylhexyl) phthalate (DEHP)</li> <li>• Benzyl butyl phthalate (BBP)</li> <li>• Dibutyl phthalate (DBP)</li> <li>• Diisobutyl phthalate (DIBP)</li> <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>
	<p><b>Packaging</b></p>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> <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>

### Technical Specifications

	<p><b>End-of-life Management and Recycling</b></p>	<p>Hewlett-Packard 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.</p> <p>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.</p>
	<p><b>HP, Inc. Corporate Environmental Information</b></p>	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report  <a href="http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html">http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</a></p> <p>Eco-label certifications  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html">http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html</a></p> <p>ISO 14001 certificates:  <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a>          and  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>

## *Technical Specifications*

Copyright © 2019 HP Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency.

### Summary

#### Change Log

Change Log			
November 5, 2019	V1 to V2	Added	Environmental tab
December 13, 2019	V2 to V3	Added	HDMI Cable