#### **HP P24 G4 Monitor**



1. Function Buttons

2. Power Button

#### **HP P24 G4 Monitor**



- 1. Power Connector
- 2. DisplayPort™ Connector
- 3. HDMI Port

#### Back

- 4. VGA Port
- 5. Security Cable Slot

#### **Technical Specifications**

Models: 1A7E5AA

Panel SpecificationsDisplay Size (Diagonal)23.8-inDisplay Panel TypeIPS

Micro-Edge Bezel Yes, 3-sided

Native Resolution/Timing 1920×1080 @ 60 Hz

Native Resolution Note\* 1 VGA, 1 HDMI 1.4, 1 DisplayPort 1.2

Panel Bit Depth6bit + AFRCAspect Ratio16:9Brightness - Typical250 cd/m²Static Contrast Ratio - Typical1000:1Dynamic Contrast Ratio (DCR)8,000,000:1

Flicker Free Yes

**Pixel Pitch** 0.2745 x 0.2745 mm

Pixels Per Inch (PPI) 93

Backlight Lamp Life (to half brightness - 30k minimum

in hours)

**Anti-Glare Panel** Yes

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

Horizontal Viewing Angle (typical CR>10) 178° Vertical Viewing Angle (typical CR>10) 178°

Panel Active Area (w x h)527.04 mmx 296.46 mmPreset Graphic Modes/Supported640 x 480 @ 60 HzResolutions720 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

Maximum Resolution1920 x 1080 @ 75 HzRecommended Resolution1920 x 1080 @ 60 Hz

Vertical Scan Range 48Hz - 75Hz
Horizontal Scan Range 30KHz - 86KHz

Default Color Temperature Neutral (6500K)

Maximum Pixel Clock Speed 180MHz

\*VGA or DisplayPort™ 1.2 or HDMI 1.4 required to drive panel at its native resolution

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

Color Gamut Coverage NTSC 72%

Color Management Factory Color Calibrated Yes

Factory Color Presets Warm - 5000K

Neutral - 6500K Cool - 9300K

Color Space / Subsampling Support RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2



**Default Color Temperature** Neutral (6500 K)

Low Blue Light Modes Yes
RGB Channel Adjust Yes, Gain

Monitor Specifications **Exterior Color of Monitor Bezel and Stand** Black

Plug & Play

Tilt

-5° to +23°

SwivelNoPivotNoVESA MountingYesSecurity Lock ReadyYesDetachable BaseYes

Warranty Based on region

On Screen Display (OSD)

On Screen Display User Controls Brightness+, Color, Image, Input, Power, Menu,

Management, Information, Exit

**User Programmable Modes** Yes, 20

Monitor Control Buttons or Switches Menu/OK, Minus ("-")/Brightness, Plus ("+")/Color,

Back/Input, Power Yes, 3 (5 options)

63.03 W >14.28 W

User-Assignable Function Buttons Yes, 3 (5 options)
Audio Controls Yes, Volume

Languages 10 (English, Spanish, German, French, Italian, Netherlands,

Portuguese, Japanese, T-Chinese and S-Chinese)

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

**HDMI** 1. HDMI1.4

VGA

**HDCP support** Yes, (DisplayPort™ and HDMI)

**Power & Operating** 

Specs

Power Supply Internal

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

Power Consumption - Maximum24 WEnergy Saving/Standby Mode0.5 WPower Consumption - Typical22 WPower cable length1.9 m

 Operational Mode at 115 VAC
 12.1 W > 13.1 W

 Operational Mode at 230 VAC
 12.1 W > 13.1 W

EU Energy Efficiency Class (EC1062) On-mode Power Consumption

(EC 1062/2010)

Annual Power Consumption 17.7 kWh >20.8 kWh

(EC 1062/2010)

Energy Efficiency Class (EC 1062/2010) A > A+

Operating Operating Temperature - Celsius

Operating Temperature - Celsius $5^{\circ}-35^{\circ}C$ Operating Temperature - Fahrenheit $41^{\circ}C$  -95°FNon-operating Temperature - Celsius $-20^{\circ}-60^{\circ}C$ Non-operating Temperature - Fahrenheit $29^{\circ}-140^{\circ}F$ 

**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.)

**Conditions** 

#### **Technical Specifications**

Environmental
Features and
Certifications

Mercury-free LED display backlighting

**Arsenic-Free Display Glass** 

Low Halogen\*\*

Yes, Mercury-free LED backlighting

Yes Yes

GSE HP-00011-01B, table 2 defines low-halogen (BFR, CFR,

NOTE: External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained

after purchase may not be Low Halogen.

**Agency Approvals and Certifications** 

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

**Microsoft WHQL Certification** 

**ENERGY STAR®** 

EPEAT® 2019 Registered\* China Energy Label

**TCO Certified** 

SmartWay Transport Partnership - NA

only

Win 10, Win 8, Win 7

Yes, ENERGY STAR® 8 Yes. Sliver

CEL Grade 1

Yes 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.

Unit
Product/Package
Specifications

**Pallet Information** 

	<u>Metric</u>	<u>Imperial</u>
Product Dimensions (Unpacked with stand) (W x D x H)	53.82 x 21.16 x 46.43 cm	21.19 x 8.33 x 18.28 in
Product Dimensions (Packed) (W x D x H)	59.8 x 16.5 x 41.5 cm	23.54 x 6.50 x 16.34 in
<b>Display Head Dimensions</b> (Unpacked without stand) (W x D x H)	53.82 x 4.59 x 32.56 cm	21.19 x 1.80 x 12.82 in
Base Area Footprint (w x d mm)	214.6 x 211.6 mm	8.45 x 8.33 in
Bezel Measurements	Bottom 22.5 mm	Bottom 0.89 in
Product Weight (Unpacked with stand)	4.61 kg	9.94 lb
Product Weight (Packed)	6.14 kg	13.51 lb
Product Weight (Head Only)	2.53 kg	5.56 lb
Pallet Dimensions (L x W x H)	1216 x 960 x 126 mm	47.84 x 37.80 x 4.96 in
Pallet Total Weight (L x W x H)	323.55 Kg	712.46 lbs
Pallet Layers	5	
Pallet Product per Layer	10	
Total Products per Pallet	50	
Container Load, 20-Foot	500 units	



#### **Technical Specifications**

**Container Load, 40-Foot** 1,100 units **Container Load, 40-Foot HighQ** 1,100 units

**Software Included** HP Display Assistant

What's in the box? AMS: AC Power Cord (1.8m) 5.9 ft, HDMI Cable (1.8m) 5.9 ft, DP Cable (1.8m) 5.9 ft

LA: AC Power Cord (1.8m) 5.9 ft, HDMI Cable (1.8m) 5.9 ft, DP Cable (1.8m) 5.9 ft

APJ (exclude Japan): AC Power Cord (1.8m) 5.9 ft, VGA Cable (1.8m) 5.9 ft, HDMI Cable (1.8m) 5.9 ft APJ Japan: AC Power Cord (1.8m) 5.9 ft, VGA Cable (1.8m) 5.9 ft, HDMI Cable (1.8m) 5.9 ft, DP Cable (1.8m)

5.9 ft

EMEA: AC Power Cord (1.8m) 5.9 ft, HDMI Cable (1.8m) 5.9 ft, DP Cable (1.8m) 5.9 ft

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

**Warranty Languages** 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.

Environmental Data	Eco-Label Certifications & declarations	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:  • IT ECO declaration  • US ENERGY STAR®  • TCO or TCO Certified Edge  • EPEAT® Silver registered in the United States. Based on US EPEAT registration according to IEEE 1680.1-2018 EPEAT. Status varies by country. See http://www.epeat.net for more information.		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation	11.86 W	11.88 W	11.90 W
	Sleep	0.18 W	0.19 W	0.18 W
	Off	0.12 W	0.13 W	0.12 W

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation	40 BTU/hr	40 BTU/hr	40 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the		
	service level is attained for one hour.		

## **Technical Specifications**

<ul> <li>This the the Plast per</li> <li>This according to the this this this this this this this this</li></ul>	stics parts weighing over 25 grams used in the produc ISO 11469 and ISO1043. Is product contains 26.9% post-consumer recycled pla ording to IEEE 1680.1-2018 standard, criterion 4.2.1. Is product is 96.6% recycle-able when properly dispose	et of 1986). T) standard at et are marked stic (by wt.) 1.
External:	PAPER/Corrugated	735 g
Internal:	PLASTIC/Polystyrene Expanded - EPS	326 g
	PLASTIC/Polyethylene Expanded - EPE	32 g
	PLASTIC/Polyethylene high density - HDPE	8 g
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		er restricted
	HP Inc. comp companies to Hazardous S HP GSE. HP has well as Ch We believe th promoting in supported th certain phtha electronics p We met our v RoHS require continue to e substances a	the Silver level, see http://www.epeat.net  Plastics parts weighing over 25 grams used in the product per ISO 11469 and ISO1043.  This product contains 26.9% post-consumer recycled plat according to IEEE 1680.1-2018 standard, criterion 4.2.1.  This product is 96.6% recycle-able when properly dispositife.  External:  PAPER/Corrugated  Internal:  PLASTIC/Polystyrene Expanded - EPS  PLASTIC/Polyethylene Expanded - EPE  PLASTIC/Polyethylene high density - HDPE  HP Inc. complies fully with materials regulations. We were among companies to extend the restrictions in the European Union (EU) R Hazardous Substances (RoHS) Directive to our products worldwide HP GSE. HP has contributed to the development of related legislat as well as China, India, and Vietnam.  We believe the RoHS directive and similar laws play an important promoting industry-wide elimination of substances of concern. W supported the inclusion of additional substances of concern. W supported the inclusion of additional substances—including PVC, certain phthalates—in future RoHS legislation that pertains to ele electronics products.  We met our voluntary objective to achieve worldwide compliance RoHS requirements for virtually all relevant products by July 2013 continue to extend the scope of the commitment to include furthe substances as regulations continue to evolve.  To obtain a copy of the HP RoHS Compliance Statement, see HP R

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_spe cifications.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 (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 Ethers (PBBEs) Polybrominated Biphenyl (PCB) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging	<ul> <li>HP follows these guidelines to decrease the environmental impact of product packaging: <ul> <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> </li></ul>

End-of-life Managem and Recycling		Hewlett-Packard 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. ( Environa Informa		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://www.hp.com/hpinfo/globalcitizenship/environment/productdesi     gn/ecolabels.html ISO 14001 certificates:     http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755 842     and     http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



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Summary

Change Log			
	From V1 to V2		

