### HP Z22n G2 21.5-inch Display



- 1. Menu/OK
- 2. Minus ("-")/Down/Color Control
- 3. Plus ("+")//Up/Viewing Mode Menu
- 4. Exit/Back/Next Active Input
- 5. Power/Power LED

Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu. If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.

If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.

if the OSD menu is inactive, press to activate Color control selection

If the OSD menu is on, press to exit menu

if the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, HDMI, or DisplayPort)

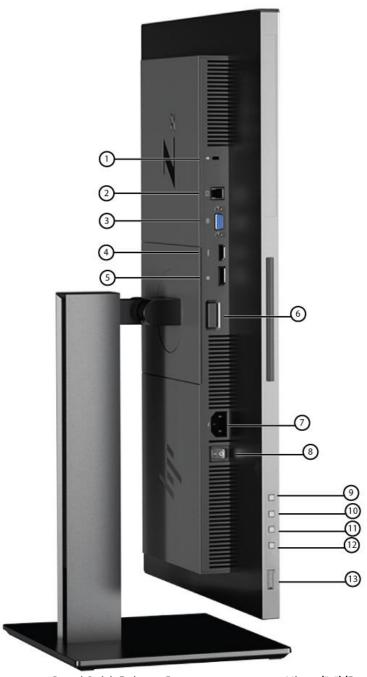
Turns the monitor on or off.

LED:

fully powered = white; sleep mode = amber;

sleep timer mode = flashing amber.

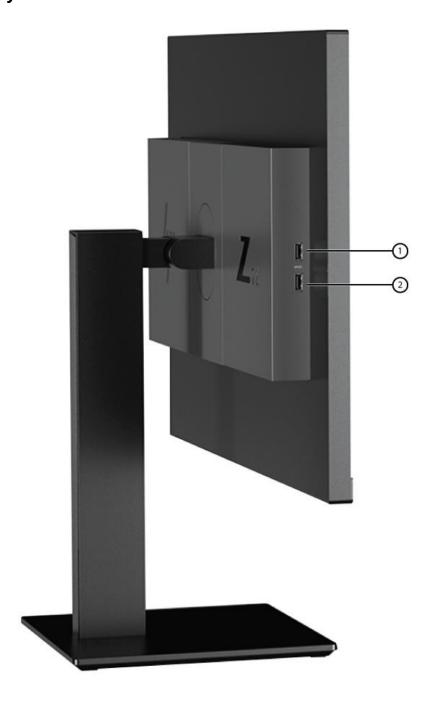
## HP Z22n G2 21.5-inch Display



- 1. Security Lock Slot
- 2. USB 3.0 Upstream
- 3. VGA Input
- **4.** HDMI 1.4
- **5.** DisplayPort<sup>™</sup> 1.2

- 6. Stand Quick Release Button
- **7.** Power Connector Port
- 8. Power Switch
- 9. Menu/OK
- **10.** Plus ("+")/Up/Next Input Port
- **11.** Minus ("-")/Down/Viewing Models Menu
- 12. Exit/Back/Information
- **13.** Power/Power LED

## HP Z22n G2 21.5-inch Display



- **1.** USB 3.0 Type-A
- **2.** USB 3.0 Type-A

Models: 1JS05A4, 1JS05A8

Panel Specifications Display Size (Diagonal) 21.5-inch

Viewable Image Area 54,6 cm (21.5 in) widescreen; diagonally measured

(diagonal)

Display Panel TypeIPS, LED BacklightMicro-Edge BezelYes, 3 sided

Panel Hardness 3H

Native Resolution/Timing 1920 x 1080 @ 60 Hz

Note: The Display can support up to 75Hz refresh for some video modes. The video card of the connected PC must be capable of supporting 75Hz. The preferred Mode is 1920 x 1080 @ 60 Hz.

Panel Bit Depth 8 Bit (6 +2 FRC) 16.7 Million colors

Aspect Ratio 16:9
Brightness\* - Typical 250 cd/m²
Static Contrast Ratio\* - Typical 1,000:1
Dynamic Contrast Ratio\* - Typical 10,000,000:1

Flicker Free Yes

Pixel Pitch 0.24795 mm

Pixels Per Inch (PPI) 102

Backlight Lamp Life (to half brightness - 30,000 hours minimum

in hours)

**Low Blue Light Capable** Yes, user selectable in OSD Menu

Anti-Glare Panel Yes. Haze 25%
Response Time\* – Typical 5ms Gray to Gray

\* Product default is 14.0ms response time and can be adjusted to as low as 5.4ms in the display menu.

See user guide for more information.

Horizontal Viewing Angle Up to 178° horizontal (10:1 minimum contrast ratio)

(typical CR>10)

**Vertical Viewing Angle (typical CR>10)** Up to 178° vertical (10:1 minimum contrast ratio)

**Panel Active Area (w x h) 47,6.1 x 26,78 cm** (18.74 x 10.54 in)

**Preset Graphic Modes/Supported**640 x 480 @ 60Hz, 75Hz **Resolutions**720 x 400 @ 70 Hz

800 x 600 @ 60 Hz, 75Hz 1024 x 768 @ 60 Hz, 75Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz, 75Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz

1920 x 1080 @ 60 Hz, 75Hz

Maximum Resolution 1920 x 1080 @ 60 Hz

Recommended Resolution 1920 x 1080 @ 60 Hz

Vertical Scan Range 50-75 Hz
Horizontal Scan Range 30-84 kHz
Maximum Pixel Clock Speed 180 MHz
sRGB\* 95% sRGB
Factory Color Calibrated Yes

**Default Color Temperature** SRGB (D65)

Monitor Specifications Exterior Color of Monitor Bezel & Stand Black Pearl Head, Chin, and Base (Die-Cast Aluminum)

Plug & Play
Yes

**Tilt** -5° to +22° vertical **Swivel** Swivel +/- 45

Pivot Yes, Pivot (CW & counter CW)

**Color Gamut Coverage** 

**Color Management** 

### **Technical Specifications**

**Height Adjustment Range** Yes, 0 to 150 mm

4-Way Comfort Adjust Easily adjust the display in height, tilt, swivel and pivot for

maximum comfort.

Integrated Quick Release<sup>5</sup> An easy-to-use, VESA-compliant, LCD monitor mounting

> solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall

mounts.

**Cable Management** Enhanced cable management for easy concealment of

> power, video and USB cables. Effortless routing of cables through the cable management tunnel at the base of the

column.

**VESA Mounting** Yes (one set of standard 4-hole pattern, 100 mm).

**Security Lock Ready** Yes **Detachable Base** No

Warranty Protected by HP, including a 3-year standard limited

warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the

standard warranties.7

**Zero Bright Dot Guarantee** 

Note: The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see

http://support.hp.com/us-en/document/c00288895.

**On Screen Display** (OSD)

**On Screen Display User Controls** Brightness, Contrast, Color Control, Input Control, Image

Control, Power Control, Menu Control, Management,

Language, Information, Exit

**Monitor Control Buttons or Switches** Menu/OK,

> Minus button/Down/Color Control, Plus button/Up/Viewing Mode Menu,

Exit/Back/Next Active Input.

Power Yes. 10

**User-Assignable Function Buttons** 

Languages

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

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

(1) DisplayPort™ 1.2 DisplayPort™ **Connector Types** 

HDMI (1) HDMI 1.4 **VGA** (1) VGA

Yes, DisplayPort™ and HDMI **HDCP Support** 

**USB Port USB Version** 3.0

Yes, 2 downstream ports **Specifications USB Hub** 

> **Downstream Ports** 2 Ports 1 Port **Upstream Ports**

**Power & Operating** 

**Power Supply** Internal **Specs** 

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

Power Consumption - Maximum<sup>2</sup> 30 W **Energy Saving/Standby Mode** 0.5 W Power Consumption - Typical<sup>1</sup> 17 W

Power cable length 1,9 m (6.2 ft)

**ENERGY STAR® Data** Operational Mode at 100 VAC 50.59 KWH/year

Operational Mode at 115 VAC 50.59 KWH/year Operational Mode at 230 VAC 50.59KWH/year

### **Technical Specifications**

EU	Energ	y Effi	iciency
Cla	155 (F(	1062	)

**On-mode Power Consumption** 

(EC 1062/2010)

**Annual Power Consumption** 

(EC 1062/2010)

Energy Efficiency Class (EC 1062/2010) Α

**Operating Conditions** 

**Environmental** 

Features and

**Certifications** 

**Operating Temperature - Celsius Operating Temperature - Fahrenheit** Non-operating Temperature - Celsius Non-operating Temperature -

**Fahrenheit** 

**Operating Humidity Non-operating Humidity Operating Altitude** 

**Non-operating Altitude** 

Mercury-free LED display backlighting

**Arsenic-Free Display Glass** Low Halogen<sup>3</sup> **ENERGY STAR® Qualified** 

EPEAT® 2019 Registered<sup>6</sup> China Energy Label

**TCO Certified Edge** Yes

TCO Certified SmartWay Transport Partnership - NA

only

**Certification & Compliance** 

CE, CB, MSIP, Mexico COC, ICES, ISO 9241-307, CU, cTUVus, ISC, CCC, CEL Grade 1, VCCI, FCC, BSMI, WEEE, RCM, ErP. KC/E-Standby, SEPA, GS, TUV-S, TCO, TCO Edge, Australian-New Zealand MEPS, PSB, Vietnam MEPS, ENERGY STAR® Qualified, EPEAT® 2019 Registered6, SmartWay Transport Partnership - NA only

**Country of Origin** China

**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:

20W

29 kWh

5° to 35° C

41° to 95° F

-20° to 60° C

20% to 80% non-condensing

**0 to 12,192 m** (0 to 40,000 ft)

0 to 5,000 m (16,404 ft)

5% to 95%, 38.7° C max wet-bulb

-4° to 140°

Yes

Yes

Yes

Yes

Yes

Yes

Yes

CEL Grade 1

- IT ECO declaration
- **US ENERGY STAR®**
- TCO Certified Edge
- Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit 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	14.15 W	15 W	14.1 W
Sleep	0.23 W	0.3 W	0.22 W
Off	0.15 W	0.3 W	0.14 W

Heat dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation	48 BTU/hr	51 BTU/hr	48 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.

#### **Additional Information**

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/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 1680.1 (EPEAT) standard, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 46.1% post-consumer recycled plastic (by wt.)
   This product is 98.1% recycle-able when properly disposed of at end of life.

**Packaging Materials** 

External: PAPER/Corrugated 1218 g
Internal: PLASTIC/Polystyrene Expanded – EPS 368 g
PLASTIC/Polyethylene high density - HDPE 45 g
PLASTIC/Other & COMPOSITE/paper/carton+plastic 4 g

**RoHS Compliance** 

HP, Inc. is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

**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/pdf/gse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- 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)
- 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**

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.



## **Technical Specifications**

- 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.

#### **End-of-life Management and** Recycling

Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 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. 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://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.ht

ISO 14001 certificates:

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Recycled Plastics	Back Cover	85%	
•	Base/Stand	85%	
	Other Parts	85% (Deco, Middle Frame)	
	Recyclable Plastics	All	
	Recyclable Packaging (Box, packing materials)	All	
		Metric	Imperial
Unit Product/Package Specifications	<b>Unpacked with stand</b> (highest setting) Product Dimensions (W x D x H)	48,83 x 20,5 x 44,87 cm	19.22 x 8.07 x17.7 in
-	<b>Head Only</b> Product Dimensions (W x D x H)	48,83 x 4,33 x 29,33 cm	19.22 x 1.7 x 11.55 in

2 x 1.7 x 11.55 in cm **Base Area Footprint** 23,7 x 1,1 x 20,5 cm 9.33 x 0.43 x 8.07 in Product Dimensions (W x D x H) Packaged

56,8 x 35 x 27 cm 22.4 x 13.8 x 10.6 in Packaged Dimensions (W x D x H) **Plastic Bezel Measurements** Top: 0,135 cm Top: 0.053 in Side: 0,135 cm Side: 0.053 in Bottom: 1,84 cm Bottom: 0.724 in

16.8 lbs **Product Weight, Packed** 7,6 kg **Product Weight, Unpacked** 5,3 kg 11.7 lbs **Product Weight, Head Only** 2,8 kg 6.2 lbs

**Pallet Information** Pallet Dimensions (L x W x H mm) Pallet A: 1370 x 1146 x 2250 mm

Pallet B: 1146 x 1098 x 2250 mm

### **Technical Specifications**

Pallet Dimensions (L x W x H inch)
Pallet A: 53.94 x 45.12 x 88.58 (inch)
Pallet B: 45.12 x 43.23 x 88.58 (inch)

Pallet Total Weight (including units) kg Pallet A: 498kg

Pallet B: 400kg
Pallet Total Weight (including units) lbs
Pallet B: 400kg

Pallet B: 880lbs
Pallet Layers
Pallet B: 6 layers
Pallet Broduct per Layer
Pallet Broduct per Layer

Pallet Product per Layer Pallet A: 10 units
Pallet B: 8 units
Total Products per Pallet Pallet A: 60 units

Pallet B: 48 units

What's in the box? Monitor HP Z22n G2 21.5-inch Display

 Mc Power Cord
 Metric
 Imperial

 AC Power Cord
 1,9 m
 6.2 ft

 DisplayPort™ 1.2 Cable
 2 m
 6.56 ft

**USB 3.0, b-a Cable** 1,8 m 5.9 ft

**Documentation CD** HP Display Assistant software, User Guide, warranty and

drivers.

HP Display Assistant is a software utility that enables theft deterrence and allows monitor adjustment, color calibration, and security/asset management using the Display Data Channel Command Interface (DDC/CI)

protocol of the connected PC or workstation.

User Guide and User Guide Languages 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.

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.

Options<sup>5</sup> (Each sold separately)

**HP S100 Speaker Bar**— Part number

2LC49AA

Add rich stereo audio to select 2017 and 2018 HP

Commercial Displays<sup>4</sup> without crowding your desk with the USB-powered HP S100 Speaker Bar, which fits neatly

underneath the display head.

HP B300 PC Mounting Bracket - Part

number 2DW53AA

Attach your HP Workstation, HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind select

2017 and 2018 HP EliteDisplays and HP Z Displays with the

HP B300 PC Mounting Bracket.

**HP UHD USB Graphics Adapter** — Part

number N2U81AA

Just plug the adapter into any USB 2.0 or 3.0 port on your PC and connect the DisplayPort™ connector on the other

end to your UHD display.

## **Technical Specifications**

**HP Single Monitor Arm** — Part number BT861AA

The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation — all at your fingertips — helping you stay comfortable and productive throughout the day.

**HP Adjustable Dual Display Stand** — Part Number AW664AA

Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.

HP Business PC Security Lock v2 Kit — Part Number N3R93AA

Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the HP Business PC Security Lock v2 Kit.



## **Technical Specifications**

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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.

\*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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

ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency.

- 1. Default Power is measured with factory defaults, including factory default brightness and USB ports loaded at 25% of maximum.
- 2. Maximum Power is measured with monitor at maximum brightness and with USB ports loaded at 100% of maximum.
- 3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- 4. Sold separately. See product QuickSpecs for exact device and display compatibility.
- 5. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.
- 6. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.
- 7. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a> for details.



## **Technical Specifications**

Change Log		
8/10/2017	Corrected Product Color	
8/10/2017	Corrected HDMI Version to 1.4	
8/23/2017	Resolution changed Version 2 to Version 3	
9/27/2017	Environmental data added Version 3 to version 4	
1/4/2018	Clarified 8-bit (6+2 FRC)	
	Removed Factory Color Calibration Section	
	Updated document version to 5	
05/28/2019	Updated EPEAT	

