HP Z23n G2 23-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)

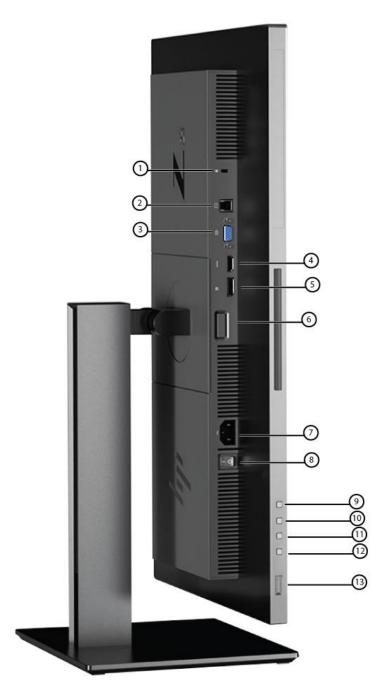
Turns the monitor on or off.

LED:

fully powered = white; sleep mode = amber;

sleep timer mode = flashing amber.

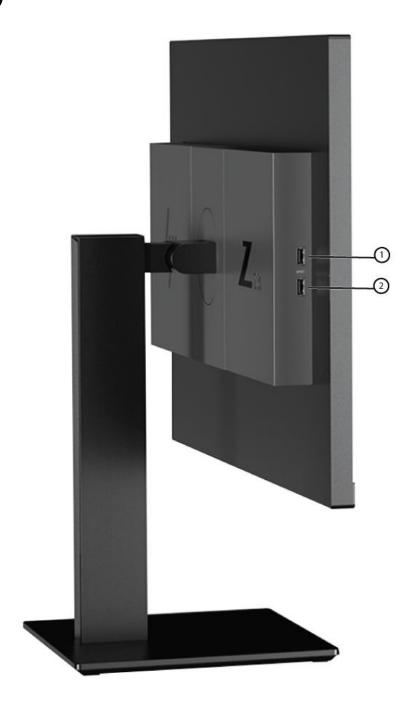
HP Z23n G2 23-inch Display



- 1. Security Lock Slot
- 2. USB 3.0 Upstream
- 3. VGA Input
- **4.** HDMI 1.4
- **5.** DisplayPort™ 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 Z23n G2 23-inch Display



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

Models: 1JS06A4, 1JS06A8

Panel Specifications Display Size (Diagonal) 23-inch

Viewable Image Area 58,4cm (23 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 0.2652 mm

Pixels Per Inch (PPI) 96

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) 50,92 x 28,64 cm (20.04 x 11.27 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

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 1920 x 1080 @ 60 Hz

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

Vertical Scan Range 50-75 Hz
Horizontal Scan Range 30-84 kHz
Maximum Pixel Clock Speed 180 MHz
sRGB* >94% 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

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

Pivot Yes, Pivot (CW & counter CW). Detent at 0 degrees

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 Release⁵ 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** Yes

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

User-Assignable Function Buttons Yes. 10

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

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

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

Power & Operating

Specifications

Power Supply Internal Specs

Input Power 100 - 240 VAC 50/60 Hz

Power Consumption - Maximum² 32 W **Energy Saving/Standby Mode** 0.5 W Power Consumption - Typical¹ 18 W

Power cable length 1,9 m (6.2 ft)

ENERGY STAR® Data Operational Mode at 100 VAC 50.82 KWH/year

> Operational Mode at 115 VAC 50.82 KWH/year Operational Mode at 230 VAC 50.82 KWH/year

On-mode Power Consumption 21W

Technical Specificat	ions			
EU Energy Efficiency Class (ERP Lot-5)	Annual Power Consumption	31 kWh		
	Energy Efficiency Class	E		
Operating Conditions	Operating Temperature - Celsius Operating Temperature - Fahrenheit Non-operating Temperature - Celsius Non-operating Temperature -	5° to 35° C 41° to 95° F -20° to 60° C -4° to 140°		
	Fahrenheit			
	Operating Humidity Non-operating Humidity Operating Altitude	20% to 80% non-condensin 5% to 95%, 38.7° C max we 0 to 5,000 m (16,404 ft)	-	
	Non-operating Altitude	0 to 12,192 m (0 to 40,000	ft)	
Environmental Features and Certifications	Mercury-free LED display backlighting Arsenic-Free Display Glass Low Halogen ³ ENERGY STAR® Qualified	Yes Yes Yes Yes		
	EPEAT® 2019 Registered ⁶	Yes		
	China Energy Label	CEL Grade 1		
	TCO Certified Edge	Yes		
	TCO Certified	Yes		
	SmartWay Transport Partnership - NA only	Yes		
	Certification & Compliance	ISC, CCC, CEL Grade 1, VCCI, KC/E-Standby, SEPA, GS, TU Australian-New Zealand ME ENERGY STAR® Qualified, EF SmartWay Transport Partne	and MEPS, PSB, Vietnam MEPS, fied, EPEAT® 2019 Registered ⁶ ,	
	Country of Origin	China		
Recycled Plastics	Back Cover Base/Stand Other Parts Recyclable Plastics Recyclable Packaging (Box, packing materials)	85% 85% 85% (Deco, Middle Frame) All All		
		Metric	Imperial	
Unit Product/Package Specifications	Unpacked with stand (highest setting) Product Dimensions (W x D x H)	52,1 x 20,5 x 45,8 cm	20.5 x 8.07 x 18 in	
	Head Only Product Dimensions (W x D x H)	52,1 x 4,33 x 31,17 cm	21.5 X 1.7 X 12.27 in	
	Base Area Footprint Product Dimensions (W x D x H)	23,7 x 1,1 x 2,05 cm	9.33 x .43 x 8.07 in	
	Packaged Packaged Dimensions (W x D x H)	60,2 x 39 x 26,5 cm	23.7 x 15.4 x 10.4 in	
	Bezel Measurements	Top: 0,135 cm Side: 0,135 cm Bottom: 1,84 cm	Top: 0.053 in Side: 0.053 in Bottom: 0.724 in	
	Product Weight, Packed Product Weight, Unpacked	8,4 kg 5,9 kg	18.5 lbs 13 lbs	
	Product Weight, Unpacked Product Weight Head Only	5,9 Kg 3 3 ka	13 (US 7 3 lbs	

Pallet Information

Pallet Dimensions (L x W x H mm)

Product Weight, Head Only

Pallet A: 1214 x 1078 x 2100 mm Pallet B: 1078 x 612 x 2100 mm

3,3 kg



7.3 lbs

Technical Specifications

Warranty Languages

(Each sold separately)

Pallet Dimensions (L x W x H inch) Pallet A: 47.8 x 42.44 x 82.68 (inch) Pallet B: 42.44 x 24.1 x 82.68 (inch)

Pallet Total Weight (including units) kg Pallet A: 364kg

Pallet B: 186kg Pallet Total Weight (including units) lbs Pallet A: 800.8lbs Pallet B: 409.2lbs

Pallet Layers Pallet A: 5 layers Pallet B: 5 layers Pallet Product per Layer Pallet A: 8 units

Pallet B: 4 units Total Products per Pallet Pallet A: 40 units

Pallet B: 20 units

What's in the box? **Monitor** HP Z23n G2 23-inch Display

> 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. English, Arabic, S. Chinese, T. Chinese, Czech, Danish, **User Guide and User Guide Languages**

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.

Options4 **HP S100 Speaker Bar**— Part number Add rich stereo audio to select 2017 and 2018 HP

> Commercial Displays⁴ without crowding your desk with the 2LC49AA USB-powered HP S100 Speaker Bar, which fits neatly

underneath the display head.

HP B300 PC Mounting Bracket—Part Attach your HP Workstation, HP Desktop Mini, HP

number 2DW53AA 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 Just plug the adapter into any USB 2.0 or 3.0 port on your

number N2U81AA 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.

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 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)

Normal Operation Sleep Off

Heat Dissipation*			
Normal Operation			
Sleep			
Off			

115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
15.28 W	16 W	15.28 W
0.28 W	0.3 W	0.28 W
0.29 W	0.3 W	0.29 W

115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
52 BTU/hr	55 BTU/hr	52 BTU/hr
1 BTU/hr	1 BTU/hr	1 BTU/hr
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).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 47% post-consumer recycled plastic (by wt.)
- This product is 98.1% recycle-able when properly disposed of at end of life.

Packaging Materials

PAPER/Corrugated PAPER/Paperboard

External:

1255 g

20 g



Internal: PLASTIC/Polystyrene Expanded – EPS 436 q

PLASTIC/Polyethylene high density - HDPE 49 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.
- 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.



Technical Specifications

End-of-life Management 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. 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/qlobalcitizenship/environment/productdesign/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

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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.

- 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.
- 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.
- 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 http://www.hp.com/go/cpc for details.



Technical Specifications

Change Log	
8/10/2017	Corrected HDMI version to 1.4
8/10/2017	Corrected Product Color
8/10/2017	Resolution changed version 2 to version 3
10/10/2017	Environmental Data table added
1/4/2018	Clarified 8-bit (6+2 FRC)
	Removed Factory Color Calibration Section
	Updated document version to 5
5/23/2019	Updated EPEAT
01/13/2020	Updated Environmental Section
9/03/2021	EU Energy Efficiency Class

