Technical Specifications

HP Z23n G2 23-inch Display

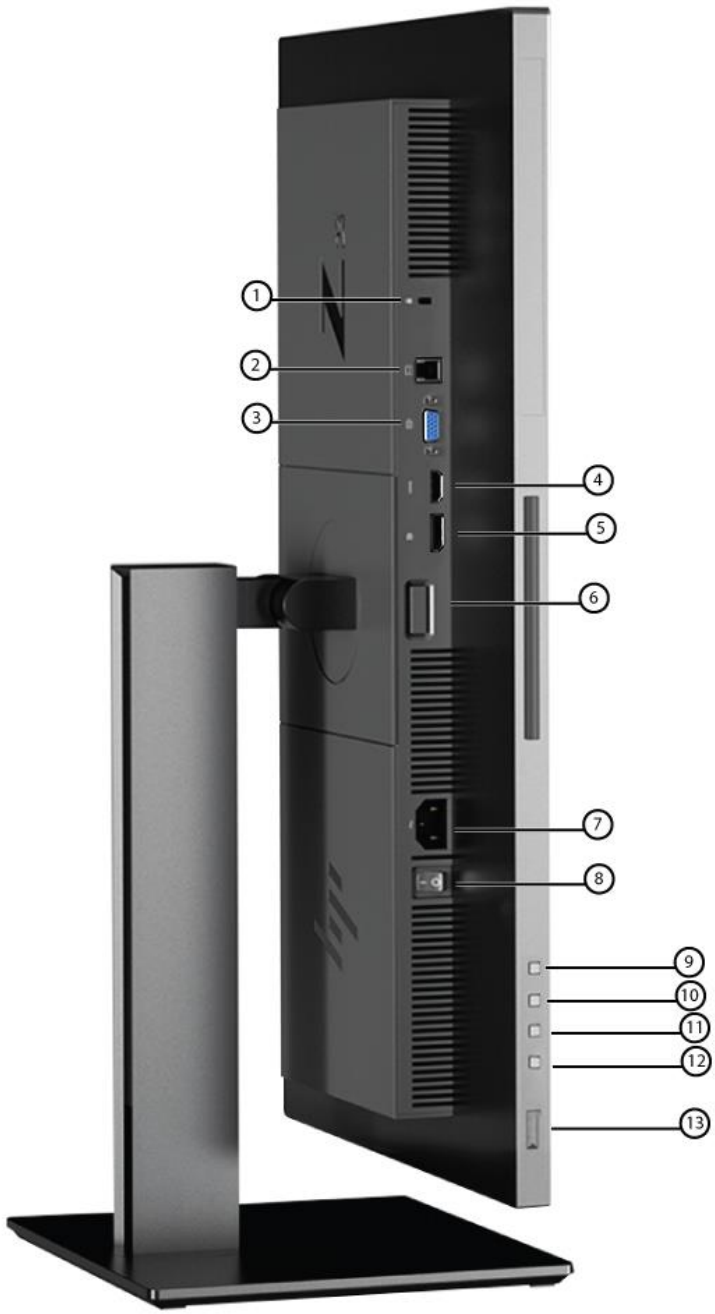


1.	**Menu/OK**	Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu.
2.	**Minus ("-“)/Down/Color Control**	If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
3.	**Plus ("+")//Up/Viewing Mode Menu**	If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. if the OSD menu is inactive, press to activate Color control selection
4.	**Exit/Back/Next Active Input**	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)

5.	**Power/Power LED**	Turns the monitor on or off.
		LED:
		fully powered = white;
		sleep mode = amber;
		sleep timer mode = flashing amber.

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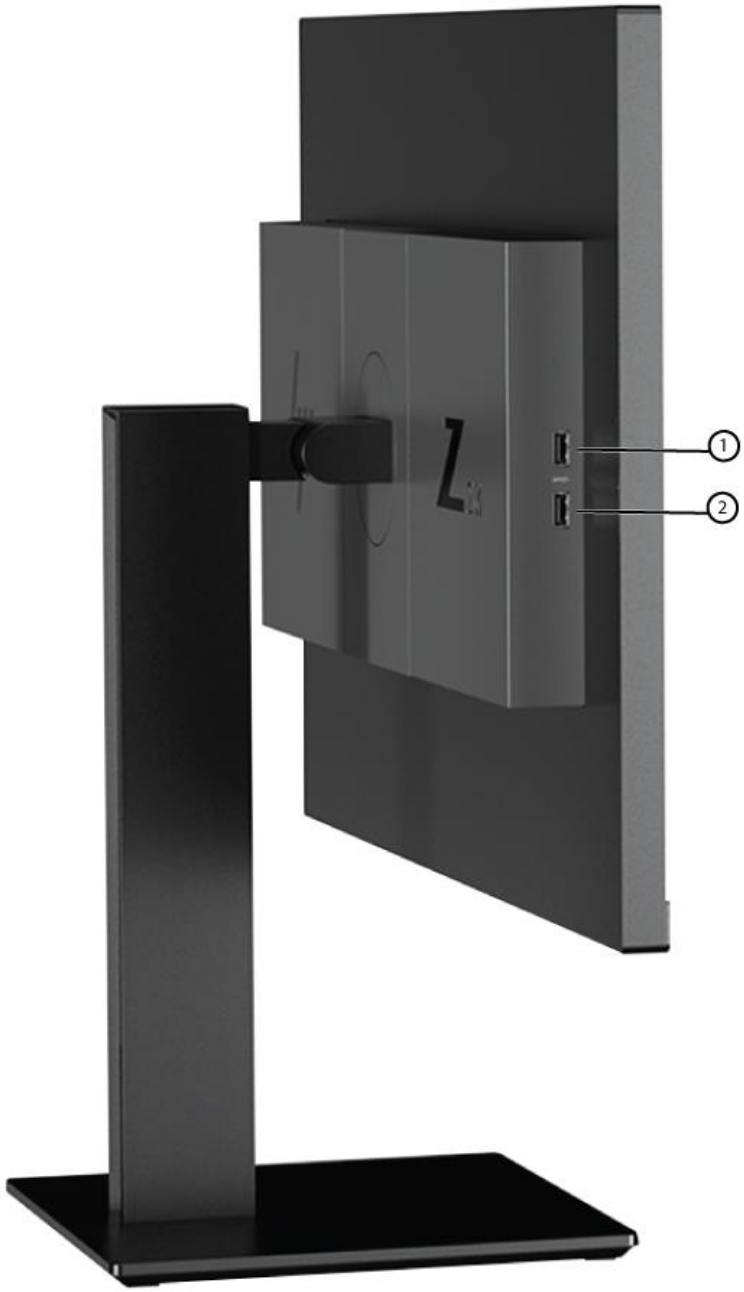
HP Z23n G2 23-inch Display



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

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

Technical Specifications

Models: 1JS06A4, 1JS06A8

Panel Specifications	**Display Size (Diagonal)**	23-inch
	Viewable Image Area (diagonal)	**58,4cm** (23 in) widescreen; diagonally measured
	Display Panel Type	IPS, LED Backlight
	Micro-Edge Bezel	Yes, 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 Bit + A-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 - in hours)	30,000 hours minimum
	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 (typical CR>10)	Up to 178° horizontal (10:1 minimum contrast ratio)
	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 Resolutions	640 x 480 @ 60Hz, 75Hz 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
Color Gamut Coverage	**sRGB***	>94% sRGB
Color Management	**Factory Color Calibrated**	Yes
	Factory Calibration Accuracy	
	White Point Maximum	3.0 ΔE 2000
	Grayscale Average (255 levels) Maximum	3.0 ΔE 2000
	Gamma Target Tolerance (2.2 for sRGB, 2.4 for BT.709)	±0.1

Technical Specifications

	X-Rite ColorChecker Average Maximum	3.0 ΔE 2000
	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). Detent at 0 degrees
	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[5]	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	Yes
	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)
Connector Types	**DisplayPort™**	(1) DisplayPort™ 1.2
	HDMI	(1) HDMI 1.4
	VGA	(1) VGA
	HDCP Support	Yes, DisplayPort™ and HDMI
USB Port Specifications	**USB Version**	3.0
	USB Hub	Yes, 2 downstream ports
	Downstream Ports	2 Ports
	Upstream Ports	1 Port
Power & Operating Specs	**Power Supply**	Internal
	Input Power	100 - 240 VAC 50/60 Hz
	Power Consumption – Maximum[2]	32 W

Technical Specifications

	Energy Saving/Standby Mode	0.5 W
	Power Consumption – Typical[1]	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
EU Energy Efficiency Class (EC1062)	**On-mode Power Consumption (EC 1062/2010)**	21W
	Annual Power Consumption (EC 1062/2010)	31 kWh
	Energy Efficiency Class (EC 1062/2010)	A
Operating Conditions	**Operating Temperature - Celsius**	**5° to 35° C**
	Operating Temperature - Fahrenheit	41° to 95° F
	Non-operating Temperature - Celsius	**-20° to 60° C**
	Non-operating Temperature - Fahrenheit	-4° to 140°
	Operating Humidity	20% to 80% non-condensing
	Non-operating Humidity	5% to 95%, 38.7° C max wet-bulb
	Operating Altitude	**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**	Yes
	Arsenic-Free Display Glass	Yes
	Low Halogen[3]	Yes
	ENERGY STAR® Qualified	Yes
	EPEAT® Registered[6]	Yes, Gold
	China Energy Label	CEL Grade 1
	TCO Certified Edge	Yes
	TCO Certified	Yes
	SmartWay Transport Partnership - NA only	Yes
	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® Gold[6], SmartWay Transport Partnership - NA only
	Country of Origin	China
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	**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

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	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**	Top: 0.053 in
		Side: 0,135 cm	Side: 0.053 in
		Bottom: 1,84 cm	Bottom: 0.724 in
	Product Weight, Packed	**8,4 kg**	18.5 lbs
	Product Weight, Unpacked	**5,9 kg**	13 lbs
	Product Weight, Head Only	**3,3 kg**	7.3 lbs

Pallet Information	**Pallet Dimensions (L x W x H mm)**	Pallet A: 1214 x 1078 x 2100 mm Pallet B: 1078 x 612 x 2100 mm
	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.	

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.

Options[4] (Each sold separately)	**HP S100 Speaker Bar**— Part number 2LC49AA	Add rich stereo audio to select 2017 and 2018 HP Commercial Displays[4] without crowding your desk with the USB-powered HP S100 Speaker Bar, which fits neatly underneath the display head.

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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.
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.

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

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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. EPEAT® registered where applicable/supported. EPEAT registration varies by country. See www.epeat.net for registration status by country.
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.

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