Technical Specifications

HP Z22n G2 21.5-inch Display

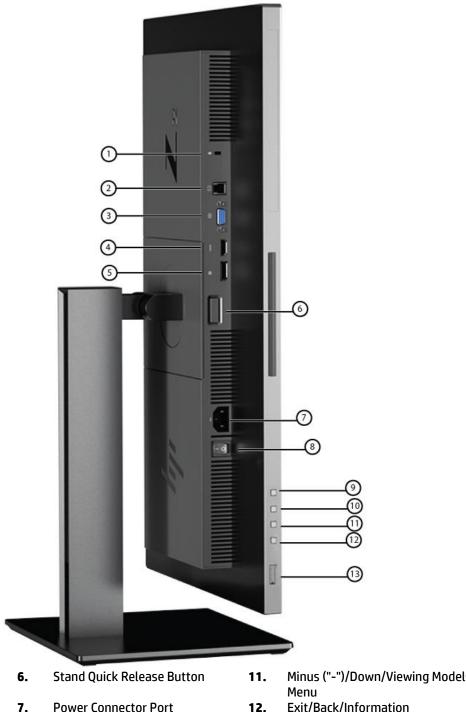


Menu/OK Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu. 1. Minus ("-")/Down/Color If the OSD menu is on, press to navigate backward through the OSD menu and decrease 2. Control adjustment levels. Plus ("+")//Up/Viewing If the OSD menu is on, press to navigate forward through the OSD menu and increase 3. Mode Menu adjustment levels. if the OSD menu is inactive, press to activate Color control selection 4. Exit/Back/Next Active If the OSD menu is on, press to exit menu Input if the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, HDMI, or DisplayPort) **Power/Power LED** Turns the monitor on or off. 5. LED: fully powered = white; sleep mode = amber; sleep timer mode = flashing amber.



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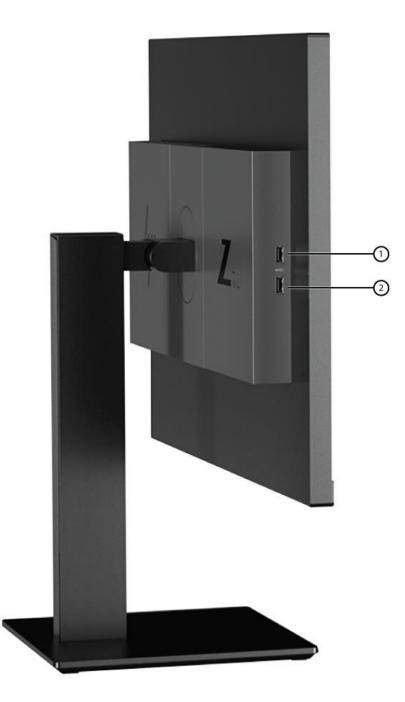


- 1. Security Lock Slot
- 2. USB 3.0 Upstream
- 3. VGA Input
- 4. **HDMI 1.4**
- 5. DisplayPort[™] 1.2

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

Technical Specifications

HP Z22n G2 21.5-inch Display



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



Technical Specifications

Models: 1JS05A4, 1JS05A8

Panel Specifications	Display Size (Diagonal)	21.5-inch
r anet specifications	Viewable Image Area	54,6 cm (21.5 in) widescreen; diagonally measured
	(diagonal)	b i jo cin (E i i jo in) who serveril, and gonally measured
	Display Panel Type	IPS, LED Backlight
	Micro-Edge Bezel	Yes, 3 sided
	Panel Hardness	3H
	Native Resolution/Timing	1920 x 1080 @ 60 Hz
		efresh for some video modes. The video card of the
		g 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/m ²
	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
		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
Color Gamut Coverage	sRGB*	95% sRGB
Color Management	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)



Technical Specifications

Technical Specificat	tions	
	Height Adjustment Dange	Vac. 0 to 150 mm
	Height Adjustment Range 4-Way Comfort Adjust	Yes, 0 to 150 mm Easily adjust the display in height, tilt, swivel and pivot for
	4-way comfort Aujust	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
	VECA Mounting	column. Voc (one cot of standard 4, hole pattern, 100 mm)
	VESA Mounting Security Lock Ready	Yes (one set of standard 4-hole pattern, 100 mm). 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	Yes
		sub-pixel defects for this display. For complete details, see
	http://support.hp.com/us-en/document/c	00288895.
On Screen Display	On Screen Display User Controls	Brightness, Contrast, Color Control, Input Control, Image
(OSD)	on screen bisplay user controls	Control, Power Control, Menu Control, Management,
(000)		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)
		rontuguese, Japanese, r-chinese and 5-chinese)
Connector Types	DisplayPort™	(1) DisplayPort™ 1.2
	НОМІ	(1) HDMI 1.4
	VGA	(1) VGA
	HDCP Support	Yes, DisplayPort™ and HDMI
		2.0
USB Port Specifications	USB Version USB Hub	3.0 Yes, 2 downstream ports
Specifications	Downstream Ports	2 Ports
	Upstream Ports	1 Port
	opstream Forts	TFOIL
Power & Operating	Power Supply	Internal
Specs	Input Power	100 - 240 VAC 50/60 Hz
	Power Consumption – Maximum ²	30 W
	Energy Saving/Standby Mode	0.5 W
	Power Consumption – Typical ¹ Power cable length	17 W 1,9 m (6.2 ft)
	רטאפו נמטוב ובווקנוו	1,5 11 (0.2 11)
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 Energy Efficiency	On-mode Power Consumption	20W	
Class (ERP Lot-5)	Annual Power Consumption	29 kWh	
	Energy Efficiency Class	E	
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 -	-4° to 140°	
	Fahrenheit		
	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	E)
Fusing an antal	Meyerum fues LED disalay basklichting	Vez	
Environmental	Mercury-free LED display backlighting	Yes	
Features and	Arsenic-Free Display Glass	Yes	
Certifications	Low Halogen ³	Yes	
	ENERGY STAR [®] Qualified	Yes	
	EPEAT [®] 2019 Registered ⁶	Yes	
	China Energy Label	CEL Grade 1	
	TCO Certified Edge	Yes	
	TCO Certified	Yes	
	SmartWay Transport Partnership - NA	Yes	
	only		
	Certification & Compliance		S, ISO 9241-307, CU, cTUVus,
		ISC, CCC, CEL Grade 1, VCCI, F	
		KC/E-Standby, SEPA, GS, TU	
		Australian-New Zealand MEP	
		ENERGY STAR [®] Qualified, EP	
	Country of Out-in	SmartWay Transport Partner	snip – NA only
Fee Lebel	Country of Origin	China china cortified to the follo	wing approvals and may be
Eco-Label Certifications &	This product has received or is in the proce labeled with one or more of these marks:	ess of being certified to the follo	wing approvats and may be
declarations	IT ECO declaration		
uectal actoris			
	TCO Certified Edge		
	 Based on US EPEAT[®] registration country. Visit http://www.epeat.n 		EPEAT®. Status varies by
	country. visit http://www.epeat.h		
Energy Consumption			
(in accordance with US			
ENERGY STAR® test met	hod) 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 calculate attained for one hour.	u based on the measured watts	, assuming the service level is
Additional Information		ce with the Restrictions of Haza	rdous Substances (PoHS)
nuulliviial iiiivi iiia(1011	 This product is in comptian directive - 2002/95/EC. 	ice with the Restrictions of HdZd	
	unective - 2002/35/EC.		



Technical Specifications

		s HP product is designed to comply with the Waste Electrical a	nd Electronic
		uipment (WEEE) Directive – 2002/96/EC. s product is in compliance with California Proposition 65 (State	o of California: Safo
		nking Water and Toxic Enforcement Act of 1986).	e of California, Sale
		s product is in compliance with the IEEE 1680.1 (EPEAT) stands	ard see
		p://www.epeat.net	uiu, see
		stics parts weighing over 25 grams used in the product are ma	arked per ISO 11469
		1 ISO1043.	
		s product contains 46.1% post-consumer recycled plastic (by	
	1	his product is 98.1% recycle-able when properly disposed of a	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
RoHS Compliance	HD Inc is co	PLASTIC/Other & COMPOSITE/paper/carton+plastic ommitted to compliance with all applicable environmental laws	4 g
Kons compliance		e European Union Restriction of Hazardous Substances (RoHS)	
	to exceed compliance obligations by meeting the requirements of the RoHS Directive on a		
		pasis. By July 1, 2006, RoHS substances will be virtually elimination of the s	
		v legal limits) for all HP electronic products subject to the RoHS	
	where it is widely recognized that there is no technically feasible alternative (as indicated by an		
		under the EU RoHS Directive).	
Material Usage		t does not contain any of the following substances in excess of	f regulatory limits
	(refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):		
	nttp://www	p.com/npinto/globalchizenship/environment/put/gse.put) .	
		pestos	
		tain Azo Colorants	
		tain Brominated Flame Retardants – may not be used as flame	e retardants in plastics
		1mium	
		orinated Hydrocarbons	
		orinated Paraffins	
		maldehyde Iogenated Diphenyl Methanes	
		ad carbonates and sulfates	
		ad and Lead compounds	
		rcuric Oxide Batteries	
		kel – finishes must not be used on the external surface design	ed to be frequently
		ndled or carried by the user.	cutobenequently
		one Depleting Substances	
		ybrominated Biphenyls (PBBs)	
		ybrominated Biphenyl Ethers (PBBEs)	
	• Pol	ybrominated Biphenyl Oxides (PBBOs)	
	 Pol 	ychlorinated Biphenyl (PCB)	
		ychlorinated Terphenyls (PCT)	
		yvinyl Chloride (PVC) – except for wires and cables, and certain	n retail packaging has
		en voluntarily removed from most applications.	
		dioactive Substances	
	• Tril	butyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)	
Packaging	HP follows t	hese guidelines to decrease the environmental impact of prod	luct packaging:
		ninate the use of heavy metals such as lead, chromium, mercu	
		kaging materials.	
	 Elir 	ninate the use of ozone-depleting substances (ODS) in packag	ing materials.

• Design packaging materials for ease of disassembly.



Technical Specificat	ions		
	Use readily recyclable pa	-consumer recycled content ma ckaging materials such as pape of packages to improve transpo	r and corrugated materials.
End-of-life Managemen Recycling	Plastic packaging materials are m It and Hewlett-Packard offers end-of-lif geographic areas. To recycle your contact your nearest HP sales off disposed of in a responsible mann	fe HP product return and recycli product, please go to: http://w ice. Products returned to HP wil	ng programs in many ww.hp.com/go/reuse-recycle or
	The EU WEEE directive (2002/95/ for each product type for use by t instructions) is posted on the Hew These instructions may be used b OEM customers who integrate and	reatment facilities. This inform /lett Packard web site at: http:/ y recyclers and other WEEE trea	ation (product disassembly /www.hp.com/go/recyclers.
HP, Inc. Corporate Environmental Informa	For more information about HP's	commitment to the environmer	it:
Recycled Plastics	ml ISO 14001 certificates: http://h20195.www2.hp and	nfo/globalcitizenship/environmo .com/V2/GetDocument.aspx?do nfo/globalcitizenship/environmo 85% 85% 85% (Deco, Middle Frame)	
	Recyclable Plastics	All	
	Recyclable Packaging (Box, packing materials)	All	
Unit Product/Package	Unpacked with stand (highest setting)	Metric	Imperial
Specifications	Product Dimensions (W x D x H)	48,83 x 20,5 x 44,87 cm	19.22 x 8.07 x17.7 in
	Head Only 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
	Base Area Footprint Product Dimensions (W x D x H)	23,7 x 1,1 x 20,5 cm	9.33 x 0.43 x 8.07 in
	Packaged Packaged Dimensions (W x D x H)	56,8 x 35 x 27 cm	22.4 x 13.8 x 10.6 in
	Plastic 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	7,6 kg	16.8 lbs
	Product Weight, Unpacked Product Weight, Head Only	5,3 kg 2,8 kg	11.7 lbs 6.2 lbs
Pallet Information	Pallet Dimensions (L x W x H mm)	Pallet A: 1370 x 1146 x 22 Pallet B: 1146 x 1098 x 22	50 mm
	Pallet Dimensions (L x W x H inch)	Pallet A: 53.94 x 45.12 x 88 Pallet B: 45.12 x 43.23 x 88	

Technical Specifications

	Pallet Total Weight (including units) kg	Pallet A: 498kg	
		Pallet B: 400kg	
	Pallet Total Weight (including units) lbs	Pallet A: 1095lbs	
		Pallet B: 880lbs	
	Pallet Layers	Pallet A: 6 layers	
		Pallet B: 6 layers	
	Pallet Product per Layer	Pallet A: 10 units	
		Pallet B: 8 units	
	Total Products per Pallet	Pallet A: 60 units Pallet B: 48 units	
		Pallel D. 40 utills	
What's in the box?	Monitor	HP Z22n G2 21.5-inch Di	isplav
		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	•	tware, User Guide, warranty and
		drivers.	tware, oser dalae, warranty and
			software utility that enables theft
			nonitor adjustment, color
			. .
			/asset management using the
			mmand Interface (DDC/CI)
		protocol of the connecte	ed PC or workstation.
User Guide and	User Guide Languages	English, Arabic, S. Chines	se, T. Chinese, Czech, Danish,
Warranty Languages			German, Greek, Hungarian, Italian,
			an, Norwegian, Polish, Brazilian
		•	ovenian, Spanish, Swedish and
		Turkish.	svenian, spanish, sweaish and
	Warranty Languages		se, T. Chinese, Czech, Danish,
			German, Greek, Hungarian, Italian,
			an, Norwegian, Polish, Brazilian
		•	ovenian, Spanish, Swedish and
		Turkish.	
Options ⁵	HP S100 Speaker Bar— Part number	Add rich stereo audio to	select 2017 and 2018 HP
(Each sold separately)	2LC49AA	Commercial Displays ⁴ wi	ithout crowding your desk with the
		USB-powered HP S100 S	peaker Bar, which fits neatly
		underneath the display h	head.
		A	
	HP B300 PC Mounting Bracket— Part		tion, HP Desktop Mini, HP
	number 2DW53AA		Thin Client directly behind select
			Displays and HP Z Displays with the
		HP B300 PC Mounting Br	acket.
	HP UHD USB Graphics Adapter — Part	Just plug the adapter int	o any USB 2.0 or 3.0 port on your
	number N2U81AA		layPort [™] connector on the other
		end to your UHD display.	
		cha to your one uisplay.	•



The flexible design of the HP Single Monitor Arm provides a

Technical Specifications

HP Single Monitor Arm — Part number BT861AA

BT861AA	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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*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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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 http://www.hp.com/go/cpc 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	
02/28/2021	Energy EfficiencyClass	
<u>I</u>		

