Technical Specifications

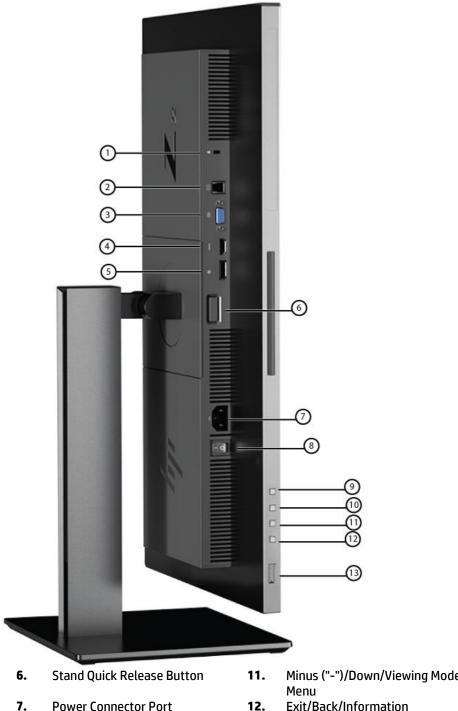
HP Z22n G2 21.5-inch Display



1. Menu/OK Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu. 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.



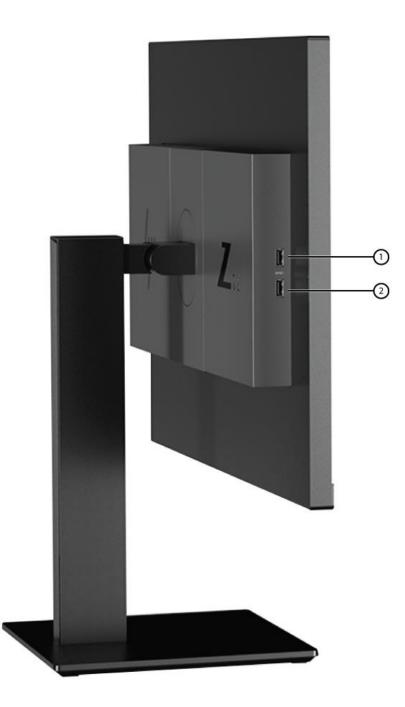
Technical Specifications HP Z22n G2 21.5-inch Display



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

- 7. Power Connector Port
- 8. Power Switch
- Menu/OK 9.
- 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
-	Viewable Image Area	54,6 cm (21.5 in) widescreen; diagonally measured
	(diagonal)	
	Display Panel Type	IPS, LED Backlight
	Micro-Edge Bezel	Yes, 3 sided
	Panel Hardness	3H
	Native Resolution/Timing	1920 x 1080 @ 60 Hz
		fresh 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
	* Product default is 14.0ms response time a	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 Range	Yes, 0 to 150 mm
	4-Way Comfort Adjust	Easily adjust the display in height, tilt, swivel and pivot for
	+ way comore najuse	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
	VESA Mounting	column. Vas (and set of standard 4, halo pattern, 100 mm)
	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)
		rortuguese, supurese, r ennese and s ennese,
Connector Types	DisplayPort™	(1) DisplayPort™ 1.2
	HDMI	(1) HDMI 1.4
	VGA	(1) VGA
	HDCP Support	Yes, DisplayPort™ and HDMI
USB Port	USB Version	3.0
Specifications	USB Hub	Yes, 2 downstream ports
Specifications	Downstream Ports	2 Ports
	Upstream Ports	1 Port
Power & Operating	Power Supply	Internal
Specs	Input Power	100 - 240 VAC 50/60 Hz
	Power Consumption – Maximum² Energy Saving/Standby Mode	30 W 0.5 W
	Power Consumption – Typical ¹	0.5 W 17 W
	Power collection – Typical 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



EU Energy Efficiency Class (EC1062)	On-mode Power Consumption (EC 1062/2010)	20W	
	Annual Power Consumption (EC 1062/2010)	29 kWh	
	Energy Efficiency Class (EC 1062/2010)	Α	
Operating Conditions	Operating Temperature - Celsius Operating Temperature - Fahrenheit Non-operating Temperature - Celsius Non-operating Temperature - Fahrenheit Operating Humidity Non-operating Humidity Operating Altitude Non-operating Altitude	5° to 35° C 41° to 95° F -20° to 60° C -4° to 140° 20% to 80% non-condensing 5% to 95%, 38.7° C max wet-b 0 to 5,000 m (16,404 ft) 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 EPEAT® Registered ⁶ China Energy Label TCO Certified Edge	Yes Yes Yes Yes, Gold CEL Grade 1 Yes	
	TCO Certified SmartWay Transport Partnership - NA only	Yes Yes	
	Certification & Compliance	CE, CB, MSIP, Mexico COC, ICES ISC, CCC, CEL Grade 1, VCCI, FC KC/E-Standby, SEPA, GS, TUV- Australian-New Zealand MEPS ENERGY STAR [®] Qualified, EPE/ Transport Partnership – NA on	C, BSMI, WEEE, RCM, ErP, S, TCO, TCO Edge, G, PSB, Vietnam MEPS, AT® Gold ⁶ , SmartWay
Eco-Label Certifications & declarations	 Country of Origin This product has received or is in the proceed labeled with one or more of these marks: IT ECO declaration US ENERGY STAR[®] TCO Certified Edge EPEAT[®] Gold registered in the Unition your country. Search keyword geaccessory at http://www.hp.com/ 	China ess of being certified to the follow ted States. See http://www.epea generator on HP's 3rd party optio	ving approvals and may be t.net for registration status
Energy Consumption (in accordance with US ENERGY STAR® test met Normal Operation Sleep Off	thod) 115VAC, 60Hz 14.15 W 0.23 W 0.15 W	230VAC, 50Hz 15 W 0.3 W 0.3 W	100VAC, 50Hz 14.1 W 0.22 W 0.14 W
Heat dissipation* Normal Operation Sleep Off	115VAC, 60Hz 48 BTU/hr 1 BTU/hr 1 BTU/hr *NOTE: Heat dissipation is calculate attained for one hour.	230VAC, 50Hz 51 BTU/hr 1 BTU/hr 1 BTU/hr 1 BTU/hr d based on the measured watts, a	100VAC, 50Hz 48 BTU/hr 1 BTU/hr 1 BTU/hr assuming the service level is



Additional Information		s product is in compliance with the Restrictions of Hazardous St ective - 2002/95/EC.	ubstances (RoHS)
	• This	s HP product is designed to comply with the Waste Electrical an ipment (WEEE) Directive – 2002/96/EC.	d Electronic
	•	s product is in compliance with California Proposition 65 (State	of California: Safe
		iking Water and Toxic Enforcement Act of 1986).	or california, Sare
		s product is in compliance with the IEEE 1680 (EPEAT) standard	at the Gold level, see
		w.epeat.net	
	• Pla	stics parts weighing over 25 grams used in the product are mar I ISO1043.	ked per ISO 11469
		s product contains 46.1% post-consumer recycled plastic (by w	rt.)
		his product is 98.1% recycle-able when properly disposed of at	
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		mmitted to compliance with all applicable environmental laws	
		e European Union Restriction of Hazardous Substances (RoHS) I	
		mpliance obligations by meeting the requirements of the RoHS	
		asis. By July 1, 2006, RoHS substances will be virtually eliminat legal limits) for all HP electronic products subject to the RoHS	
		idely recognized that there is no technically feasible alternativ	
		inder the EU RoHS Directive).	e (as mulcated by an
Material Usage		does not contain any of the following substances in excess of	regulatory limits
j_		HP General Specification for the Environment at	· - j - · · · · · j · · · · · · ·
		hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf)	
	 Asb 	estos	
	• Cer	tain Azo Colorants	
	• Cer	tain Brominated Flame Retardants – may not be used as flame	retardants in plastics
		mium	
		orinated Hydrocarbons	
		prinated Paraffins	
		maldehyde	
		ogenated Diphenyl Methanes	
		d carbonates and sulfates	
		d and Lead compounds	
		curic Oxide Batteries	
		kel – finishes must not be used on the external surface designe	d to be frequently
		dled or carried by the user.	
		ne Depleting Substances	
		ybrominated Biphenyls (PBBs)	
		ybrominated Biphenyl Ethers (PBBEs)	
		ybrominated Biphenyl Oxides (PBBOs)	
		ychlorinated Biphenyl (PCB) ychlorinated Terphenyls (PCT)	
		yvinyl Chloride (PVC) – except for wires and cables, and certain	rotail nackaging has
		n voluntarily removed from most applications.	i etait patkayiliy lidS
		lioactive Substances	
		putyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)	
	- 111		
Packaging	HP follows t	hese guidelines to decrease the environmental impact of produ	ıct packaging:
		ninate the use of heavy metals such as lead, chromium, mercur	
		kaging materials.	-

End-of-life Management Recycling	 Design packaging materia Maximize the use of post- Use readily recyclable pac Reduce size and weight of 	kaging materials such as pape f packages to improve transpor arked according to ISO 11469 a e HP product return and recycli product, please go to: http://w ce. Products returned to HP wil er. C) requires manufacturers to p eatment facilities. This inform lett Packard web site at: http:/ recyclers and other WEEE trea	aterials in packaging materials. r and corrugated materials. rtation fuel efficiency. nd DIN 6120 standards. ng programs in many ww.hp.com/go/reuse-recycle or l be recycled, recovered or rovide treatment information ation (product disassembly //www.hp.com/go/recyclers.
HP, Inc. Corporate Environmental Informat	Global Citizenship Report http://www.hp.com/hpinf Eco-label certifications <u>http://www.hp.com/hpinf</u> ISO 14001 certificates: <u>http://h20195.www2.hp.co</u> and	fo/globalcitizenship/gcreport/i	index.html ent/productdesign/ecolabels.ht ocname=c04755842
Recycled Plastics	Back Cover Base/Stand Other Parts Recyclable Plastics Recyclable Packaging (Box, packing materials)	85% 85% 85% (Deco, Middle Frame) All All	
Unit Product/Package Specifications	Unpacked with stand (highest setting) Product Dimensions (W x D x H) Head Only Product Dimensions (W x D x H) Base Area Footprint Product Dimensions (W x D x H) Packaged Packaged Dimensions (W x D x H) Plastic Bezel Measurements	Metric 48,83 x 20,5 x 44,87 cm 48,83 x 4,33 x 29,33 cm 23,7 x 1,1 x 20,5 cm 56,8 x 35 x 27 cm Top: 0,135 cm Side: 0,135 cm	Imperial 19.22 x 8.07 x17.7 in 19.22 x 1.7 x 11.55 in 9.33 x 0.43 x 8.07 in 22.4 x 13.8 x 10.6 in Top: 0.053 in Side: 0.053 in
Pallet Information	Product Weight, Packed Product Weight, Unpacked Product Weight, Head Only Pallet Dimensions (L x W x H mm)	Side: 0,135 cm Bottom: 1,84 cm 7,6 kg 5,3 kg 2,8 kg Pallet A: 1370 x 1146 x 22! Pallet B: 1146 x 1098 x 22!	Bottom:0.724 in 16.8 lbs 11.7 lbs 6.2 lbs



			,
	Pallet Dimensions (L x W x H inch)	Pallet A: 53.94 x 45.12 x 88.58 (incl	
	Pallet Total Weight (including units) kg	Pallet B: 45.12 x 43.23 x 88.58 (inc) Pallet A: 498kg	1)
	Fallet Total weight (including units) kg	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	
What's in the box?	Monitor	HP Z22n G2 21.5-inch Display	
what 5 m the DUX:	Politor	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	^r Guide, warranty and
		drivers.	
		HP Display Assistant is a software u	
		deterrence and allows monitor adju	
		calibration, and security/asset man	
		Display Data Channel Command Int	
		protocol of the connected PC or wo	rkstation.
User Guide and	User Guide Languages	English, Arabic, S. Chinese, T. Chines	se. Czech. Danish.
Warranty Languages		Dutch, Finnish, French, German, Gre	
		Japanese, Kazakh, Korean, Norweg	
		Portuguese, Russian, Slovenian, Sp	anish, Swedish and
		Turkish.	
	Warranty Languages	English, Arabic, S. Chinese, T. Chines	
		Dutch, Finnish, French, German, Gre	
		Japanese, Kazakh, Korean, Norwegi	
		Portuguese, Russian, Slovenian, Sp Turkish.	anish, Swedish and
		TUTKISH.	
Options ⁵	HP S100 Speaker Bar— Part number	Add rich stereo audio to select 2017	7 and 2018 HD
(Each sold separately)	2LC49AA	Commercial Displays ⁴ without crow	
(),		USB-powered HP S100 Speaker Bar	
		underneath the display head.	,
		. ,	
	HP B300 PC Mounting Bracket— Part	Attach your HP Workstation, HP Des	
	number 2DW53AA	Chromebox or select HP Thin Client	-
		2017 and 2018 HP EliteDisplays and	a HP Z Displays with the
		HP B300 PC Mounting Bracket.	
	HP UHD USB Graphics Adapter — Part	Just plug the adapter into any USB 2	2.0 or 3.0 port on vour
	number N2U81AA	PC and connect the DisplayPort [™] co	
		end to your UHD display.	



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.

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. 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.



Corrected Product Color
Corrected HDMI Version to 1.4
Resolution changed Version 2 to Version 3
Environmental data added Version 3 to version 4
Clarified 8-bit (6+2 FRC)
Removed Factory Color Calibration Section
Updated document version to 5
F

