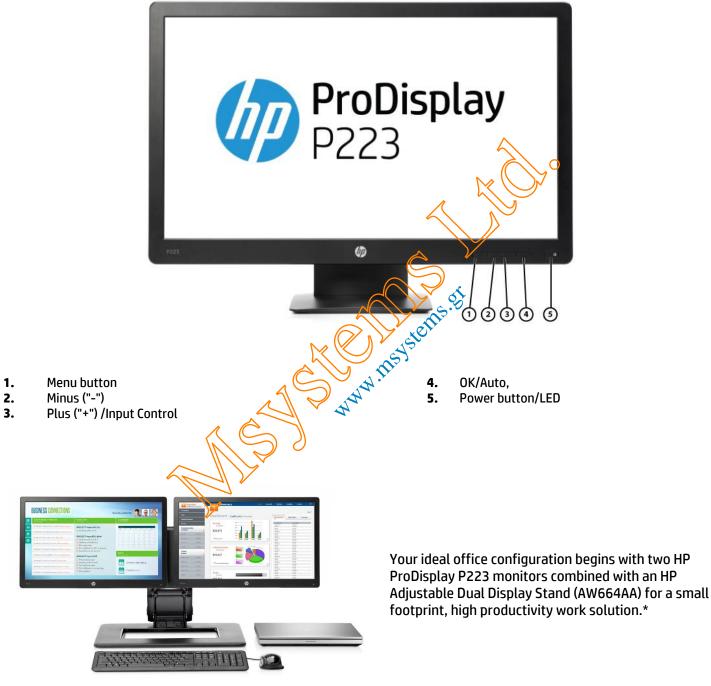


Overview

HP ProDisplay P223 21.5-inch Monitor



HP ProDisplay P223 and HP Adjustable Dual Display Stand dual monitor configuration shown. (Note: monitors and stands sold separately)

*NOTE: Multi-monitor support is dependent on your system. Check your user guide or technical specifications for compatibility. Optional accessories may be required.



Overview

Overview

Put your HP Pro PC content front and center on an ample 21.5-inch diagonal FHD screen with the HP ProDisplay P223 21.5-inch Monitor.

Key features:

- Share your content in crisp, clear color on the 21.5-inch diagonal screen with 1920 x 1080 resolution, and 3000:1 contrast ratio.¹
- Experience stunning FHD picture quality, ultra-fast graphics refresh, and vivid colors with DisplayPort[™].
- Attach your HP PC or select HP Thin Client directly behind the display.²
- Reduce power consumption and help lower your costs with an energy-efficient design.
- Get a stable product lifecycle and minimum one-year lifespan, plus Global Series availability around the world.
- Free up valuable desk space with mounting options³ enabled by the 100-mm VESA pattern.
- Customize a total solution with options³ designed for your display.
- Design the screen for how you work with HP Display Assistant software, which enables screen partitioning and helps deter theft by deactivating a display that's disconnected without approval.
- Rest assured that your IT investment is supported by a three-year standard limited warranty. Add HP Care services⁴ to
 extend your protection beyond the standard limited warranties.
- 1 All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- 2 Requires HP Quick Release, sold separately. See product QuickSpecs for exact PC and thin client compatibility.
- 3 Each accessory sold separately. Mounting hardware sold separately. Head only model sold separately and availability varies by region.
- 4 HP Care Pack Services are sold separately. Service levels and response times for HR care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See www.bbc.com/go/cpc for details. HP Services are governed by the applicable HP terms and conditions of service provided or indicated to Costomer at the tipe of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the RP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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Change Log

Models:

Panel

X7R61AA - HP ProDisplay P223 21.5-inch Monitor Z4L11AA - HP ProDisplay P223 21.5-inch Monitor Head Only

Туре	21.5-inch VA w/LED backlight
Viewable Image Area	54,61 cm (21.5-inch) widescreen; diagonally measured
(diagonal)	
Panel Active Area (W × H)	47,6 x 26,7 cm (18.74 × 10.51 in)
Resolution	1920 x 1080 @ 60 Hz
Aspect Ratio	16:9
Viewing Angle	Up to 178° horizontal/178° vertical 😥 pical
Brightness	250 cd/m ²
Contrast Ratio (Typical)	3000:1 Static; 5,000,000:1 Dynamic (DCR)
Response Time*	5 ms typical (gray to gray)
Pixel Pitch	.248 mm
Pixels Per Inch (PPI)	102.4 DPI
Backlight Lamp Life (to half brightness)	30,000 hours minimum
Color Support	Up to 16.7 million colors with the use of FRC technology
Color Gamut (Typical)	72%

* Product default is 8ms response time and can be adjusted to as low as 5ms in the display menu. See user guide for more information. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

User Controls	Buttons or Switches	Menu, Minus ("-"), Plus ("+")/Input Control, OK/Auto, Power
	Languàges	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	On Screen Display (OSD) User Controls	Brightness, Contrast, Input Control, Color Control, Image Control, Power Control, OSD control, Management, Language, Information, Exit
	User Programmable Modes	Yes, 10
	Audio Controls	N/A
Signal Interface/	Horizontal Frequency	24-80 kHz
Performance	Vertical Frequency	50-60 Hz
	Native Resolution	1920 x 1080 @ 60 Hz
	Preset Graphic Modes (non-interlaced)	640 x 480 @ 60Hz 720 x 400 @ 70Hz 800 x 600 @ 60Hz 1024 x 768 @ 60Hz 1280 x 720 @ 60Hz



1280 x 800 @ 60Hz

		1280 x 1024 @ 60Hz 1440 x 900 @ 60Hz 1600 x 900 @ 60Hz 1680 x 1050 @ 60Hz 1920 x1080 @ 60Hz	
	Anti-Glare	Yes	
Video/Other Inputs	Plug and Play	Yes	
	Input Connectors	(1) DisplayPort [™] 1.2, (1) VGA	м
		HDCP support on DisplayPort	"
	USB Video Cobleo Included	N/A	
	Video Cables Included	(1) DisplayPort™ 1,8 m (5.9 ft) (1) VGA 1,8 m (5.9 ft)	•
	Audio	N/A	
Multimedia	Speakers	N/A	
Power	Power Supply	Internal	
	Input Power	100 - 240 VAC 50/60 Hz	
	Maximum Power	28 W	7
	Typical Power	20 W	
	Sleep Power	0.5 W	
	Power Cable Length	1,9 m (6.2 ft)	
Mechanical	Dimensions (W × D × H)	0.5 W 1,9 m (6.2 ft) Unplacked w/stand (highest setting) Unplacked w/o stand (head only)	51,5 x 19,12 x 38,9 cm (20.28 x 7.53 x 15.32 in) 51,5 x 5,49 x 32,7 cm (20.28 x 2.16 x 12.87 in)
	Weight	Packaged	58,9 x 14 x 42 cm (23.19 x 5.51 x 16.54 in)
		Head Only	2,9 kg (6.4 lb)
		Unpacked with stand	3,5 kg (7.7 lb)
	\succ	Packaged	4,7 kg (10.4 lb)
Ergonomic Features (not available on head	Detachable Stand	Yes, ships detached	
only model)	Height Adjustment	N/A	
	Tilt Range	-5° to + 22° vertical	
	Swivel	N/A	
	Pivot	N/A	
Environmental	Temperature - Operating	5° to 35° C (41° to 95° F)	
	Temperature - Non- operating	–20° to 60° C (-4° to 140° F)	
	Humidity - Operating	20% to 80% non-condensing	
	Humidity - Non- operating	5% to 95%, 38.7° C max wet-t	pulb
	Altitude - Operating	0 to 5,000 m (0 to 16,404 ft)	



	Altitude – Non-	0 to 12,192 m (0 to 40,000 ft)	
	operating		
	White LED Backligh	ts Yes	
	CCFL Panel	No	
	Arsenic-Free Displa Glass	ay Yes	
	Low Halogen ¹	Yes (except cables)	
	Mercury-Free Displ Backlighting	ay Yes	
Eco-Label Certifications & declarations	may be labeled with IT ECO dec US ENERG' TCO or TCO EPEAT® GC		ð,
Energy Consumption (in accordance with US ENERGY STAR® test	,		
method)	115VAC, 60H	Iz 230VAC, 50Hz	100VAC, 50Hz
Normal Operation	14.5 W	14.5W	14.5 W
Sleep	0.3 W	0.3W	0.3 W
Off	0.1 W	0.3 W LETTS. E	0.1 W
Heat Dissipation*	115VAC, 60H		100VAC, 50Hz
Normal Operation	50 BTU/hr	50 BTU/hr	50 BTU/hr
Sleep	1 BTU/hr	A BTU/hr	1 BTU/hr
Off	1 BTU/hr 🤞	🔨 🎽 🖈 1 BTU/hr	1 BTU/hr
	*NOTE: Heat dissipation attained for one no	ation is calculated based on the measured w	vatts, assuming the service level is
Additional	• This produ	ict is in compliance with the Restrictions of I	Hazardous Substances (RoHS)
Information		2002/95/EC.	
		oduct is designed to comply with the Waste t (WEEE) Directive – 2002/96/EC.	Electrical and Electronic
		ict is in compliance with California Propositi	on 65 (State of California; Safe
	_	/ater and Toxic Enforcement Act of 1986).	
	•	ict is in compliance with the IEEE 1680 (EPE/	AT) standard at the <gold> level,</gold>
	see www.e Plastics pa	rts weighing over 25 grams used in the pro	duct are marked per ISO 11469
	and ISO10		·
	-	ict contains 18.8% post-consumer recycled ict is 98.1% recycle-able when properly disp	
	.		
Packaging Materials		APER/Corrugated	580 g
	Internal: P	LASTIC/Polystyrene Expanded - EPS	202 g
	P	LASTIC/Polyethylene Expanded - EPE	28 g



RoHS Compliance Material Usage	 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). 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/npinfo/globalcitizenship/environment/pdf/gse.pdf): Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Pydrocarbons Chlorinated 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 Polybrominated Biphenyl (PBB) Polybrominated Biphenyl (PBB) Polybrominated Biphenyl (PCB) Polybrominated Biphenyl (PCB) Polychlorinated Righenyl (PCB) Polychlorinated Righenyl (PCD) Rationative Substances Rationat		
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. 		



End-of-life Management and Recycling	geographic areas. To recycl contact your nearest HP sa disposed of in a responsibl The EU WEEE directive (200 for each product type for u instructions) is posted on t These instructions may be	d-of-life HP product return and recycling programs in many le your product, please go to: http://www.hp.com/go/reuse-recycle or eles office. Products returned to HP will be recycled, recovered or e manner. D2/95/EC) requires manufacturers to provide treatment information se by treatment facilities. This information (product disassembly he Hewlett Packard web site at: http://www.hp.com/go/recyclers. used by recyclers and other WEEE treatment facilities as well as HP rate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about Global Citizenship Rep http://www.hp.co Eco-label certifications http://www.hp.co <u>ml</u> ISO 14001 certificates http://h20195.ww and	It HP's commitment to the environment: ort m/hpinfo/globalcitizenship/gcreport/index.html s m/hpinfo/globalcitizenship/environment/productdesign/ecolabels.ht
Options (each sold separately)	HP LCD Speaker Bar— Part number NQ576AA HP Adjustable Dual Display Stand—Part Number AW664AA	Powered directly by the connected PC, the Speaker Bar seamlessly attaches to the monitor's lower bezel to bring full audio support to select HP flat panel monitors. Features include dual speakers with full sound range and dual external headphone jacks. Sold separately. For more information, refer to the product's QuickSpecs. 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 Single Monitor Arm Part number BT861AA HP DisplayPort™ Cable	The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 75 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips helping you stay comfortable and productive throughout the day. Connects a DisplayPort [™] connector on an HP Business Desktop
	Kit — Part number VN567AA HP LCD Monitor Quick	computer to a DisplayPort [™] connector on a monitor An easy-to-use, VESA-compliant, LCD monitor mounting solution that
	Release — Part number EM870AA ⁴	allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.
	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. Simply route the cable through the PC's lock slot and your display, anchor to a desk, table, or other fixed surface, and lock with your individual key. A master key configuration is also available upon request.



Change Log

Software HP Display Assistant Other 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. Color Black VESA Mounting 100 mm VESA mount Security Lock-Ready Yes Country of Origin China TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, NC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA Model Compatibility Compatible with platforms using the VESA standard vide modes. Recommended for use with HP products. Service and Warranty Protected by HP, including a stean standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. ³	What's in the box?	Monitor and Accessories Documentation	HP ProDisplay P223 21.5-inch Monitor, AC power cord (1.9 m) 6.2 ft, DisplayPort™ cable (1.8 m), VGA cable (1.8 m) 5.9 ft CD (includes user guide, warranty, drivers)
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. Color Black VESA Mounting 100 mm VESA mount Security Lock-Ready Yes Country of Origin China TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA Model Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. Service and Warranty Protected by HP, including a 3year standard limited warranty. Optional HP Care Pack Services are		Software	HP Display Assistant
French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish. Color Black VESA Mounting 100 mm VESA mount Security Lock-Ready Yes Country of Origin China TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, IC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA Model Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. Service and Warranty Protected by HP, including a 3yea, standard limited warranty. Optional HP Care Pack Services are	Other	User Guide Languages	French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish,
VESA Mounting 100 mm VESA mount Security Lock-Ready Yes Country of Origin China TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, IC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI- SmartWay Transportation Partnership for NA Model Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. Service and Warranty Protected by HP, including a 3year standard limited warranty. Optional HP Care Pack Services are		Warranty Languages	French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish,
Security Lock-Ready Yes Country of Origin China TCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA Model Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. Service and Warranty Protected by HP, including a 3year standard limited warranty. Optional HP Care Pack Services are		Color	Black
Country of OriginChinaCertification and ComplianceTCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA ModelCompatibilityCompatible with platforms using the VESA standard video modes. Recommended for use with HP products.Service and WarrantyProtected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are		VESA Mounting	100 mm VESA mount
Certification and ComplianceTCO Certified, CEL Grade 2, Microsoft WHQL Certification (Windows 10, Windows 8.1, Windows 7), ENERGY STAR® Qualified, EPEAT® Gold², CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA ModelCompatibilityCompatible with platforms using the VESA standard video modes. Recommended for use with HP products.Service and WarrantyProtected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are		Security Lock-Ready	Yes
ComplianceENERGY STAR® Qualified, EPEAT® Gold², CE, CB , KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA, ISC, VCCI, FCC, Taiwan: BMSI, SmartWay Transportation Partnership for NA ModelCompatibilityCompatible with platforms using the VESA standard video modes. Recommended for use with HP products.Service and WarrantyProtected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are		Country of Origin	China
Service and Warranty Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are		ENERGY STAR [®] Qualified, EPEAT [®] Gold ² , CE, CB , KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CECP, SEPA, EPA,	
	Compatibility	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.	
	Service and Warranty		

- 1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- 2. EPEAT [®] registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. See HP's 3rd party option store for solar energy accessory http://www.hp.com/go/options.
- 3. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit: http://www.hp.com/go/cpc.
- 4. 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.

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Cha	inge Log
V1	Quickspecs launched
V2	Options and Environmental Sections updated
V3	Response Time of Panel Section updated
	A A A A A A A A A A A A A A A A A A A