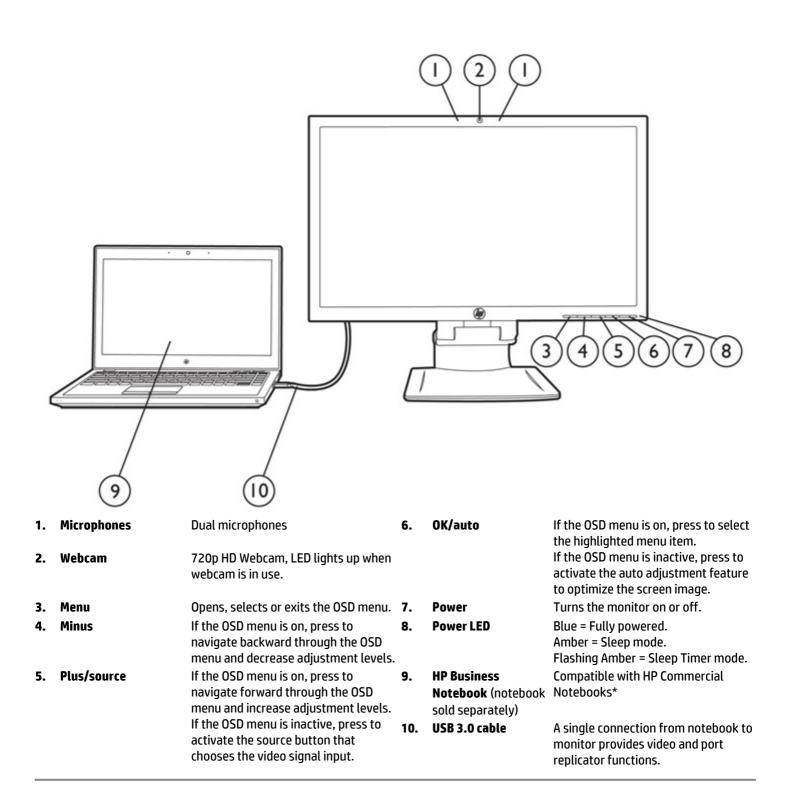
Overview



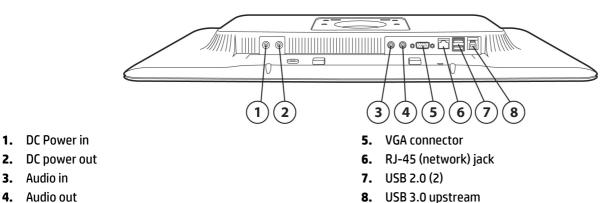


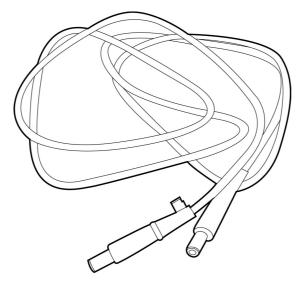
Overview

2.

3.

4.





DC to DC cable (included)

Key Features:

- 23" (16:9) LED Backlit LCD panel
- A single High Speed USB 3.0 connection to a notebook provides video and port replicator functions (USB and network)
- Connect to a variety of peripherals with four USB port and, one network connector
- HP Smart AC Adapter cable for power pass-through3 charging6 in one innovative and stylish monitor*
- 4 axis adjustable stand (height, tilt, swivel, and pivot)
- 720p Webcam w/ dual microphones
- Audio in/out

*Battery charging capability for HP Commercial Notebooks up to 90W, EliteBook Mobile Workstations will have pass through power capability only.



Overview

Model

A1W80AA



Technical Specifications

Panel	Туре	TN (Twisted Nematic) LED Backlit LCD		
	Viewable Image Area (diagonal)	58,42 cm (23.0 in.) widescreen; diagonally measured		
	Screen Opening (W × H)	53,32 x 28,68 cm (20.05 x 11.29 in.)		
	Aspect Ratio	16:9		
	Viewing Angle (typical)	Up to 170° horizontal/160° vertical (10:1 minimum contrast ratio)		
	Brightness (typical)*	250 nits (cd/m ²)		
	Contrast Ratio (typical)*	1000:1		
	Dynamic Contrast Ratio (typical)*	1,000,000:1		
	Response Time (typical)*	5 ms (on/off)		
	Pixel Pitch	0.265 mm		
	Backlight Lamp Life (to half brightness)	30,000 hours		
	Color Gamut (typical)	72%		
	Color Support**	Can display up to 16.7 million colors		
	*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ** With the use of FRC technology.			
On Screen Display	Buttons or Switches	"Menu" "-" "+" "OK" "Power"		
(OSD) Controls	Languages	English, French, German, Italian, Dutch, Spanish, Japanese, Portuguese, Traditional Chinese, and Simplified Chinese		
	User Controls	Switch Video Input, Brightness, Contrast, Image Control, Color, OSD Control, Language, Management, Information, Factory Reset, Exit		
Signal Interface/	Horizontal Frequency	24 to 94 kHz		
Performance	Vertical Frequency	50 to 76 Hz		
	Native Resolution	1920 x 1080 @ 60 Hz		
	Preset VESA Graphic	1920 x 1080 @ 60 Hz		
	Modes (non-interlaced)	1680 x 1050 @ 60 Hz		
		1440 x 900 @ 60 Hz		
		1280 x 1024 @ 60 Hz		
		1280 x 720 @ 60 Hz		
		1024 x 768 @ 60 Hz		
		800 x 600 @ 60 Hz		
		720 x 400 @ 70 Hz		
	Text Mode	640 x 480 @ 60 Hz		
		720 x 400 @ 70 Hz		
	Maximum Pixel Clock Speed	200MHz (VGA)		



Technical Specifications

	User Programmable	Yes (27)	
	Modes		
	Anti-Glare	Yes	
	Default Color Temperature	Standard (6500K)	
Video/Other Inputs	Plug and Play	Yes	
	Input Connectors (Video)	(1) USB 3.0 upstream (inte	erface to notebook); (1) VGA (analog)
	Input Impedance	75 Ohms (VGA)	
	Sync Input	TTL separate synch	
	Video Cable	(1) USB 3.0	
	Video Cable Length	1,8 m (5.9 ft.)	
	Audio	(1) Audio in/microphone;	(1) Headphone/line out
	USB	4 total USB ports: (2) USB	3.0 ports; (2) USB 2.0 downstream ports
	Network	(1) RJ-45 Network in	
	Webcam	Built-in 720p HD Webcam	w/ dual mic and LED
Power	Туре	External	
	Input Power	100 – 240 VAC, 50 – 60 Hz	<u>-</u>
	Typical Power Consumption	38W	
	Maximum	55W	
	Power Saving	< 1W	
	Power Cable Length	1.8 m (5.9 ft.)	
	Notebook charging	power and charge HP note	book charger with HP Smart AC Technology6 to books (up to 90W)* y for HP Commercial Notebooks above 90W
	Charging Power cable length	1.8 m (5.9 ft.)	
Mechanical	Dimensions (W × D × H)	Unpacked w/stand	55,15 x 24,94 x 35,1 to 46,7 cm. (21.71 x 9.82 x 13.82 to 18.39 in.)
		Unpacked w/o stand (head only)	55,51 x 4,95 x 33,42 cm. (21.69 x 1.95 x 13.16 in.)
		Packaged	62,4 x 50,2 x 16,9 cm. (24.57 x 19.76 x 6.65 in.)
	Weight	Head Only	4,1 kg (9.02 lb.)
		Unpacked	6,55 kg (14.41 lb.)
		Packaged	9,49 kg (20.89 lb.)
	Tilt Range	-5° to +30°	
	Swivel Range	Yes (+/- 180°)	
	Height Adjustable	Yes, from 0 to 13,0 cm. (0) to 5.1 in.)
	Pivot Rotation	Yes	
	Base	Detachable, ships attache	d



Technical Specifica	tions			
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-conden	sing	
	Humidity – Non-operatin	g 5% to 95%, 38.7° C max	wet-bulb	
	Altitude – Operating	0 to 3049 m. (10,000 ft.)		
	Altitude – Non-operating	0 to 12192 m. (40,000 ft	.)	
	White LED Backlights	Yes		
	CCFL Panel	No		
	Arsenic-Free Display Glass (100% free) ⁴	Yes		
	Low Halogen3	Plastics and Finishes or F	Paint (excludes external cab	les)
	Mercury-Free Display Backlighting	Yes		
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 declarationTCO 05		
	Energy Consumption	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
	Normal Operation	23.2 W	23.3 W	23.3 W
	Sleep	0.4 W	0.4 W	0.4 W
	Off	0.3 W	0.3 W	0.3 W
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
	Normal Operation	79 BTU/hr	80 BTU/hr	80 BTU/hr
	Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
	Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
		* Heat dissipation is calcul service level is attained for	lated based on the measure r one hour.	ed watts, assuming the
	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 28% post-consumer recycled plastic (by wt.) This product is 99% recycle-able when properly disposed of at end of life. 		



Technical Specifications Packaging Materials External: PAPER/Paper 1579 g PLASTIC/EPS (Expanded **Internal:** 320 g Polystyrene) PLASTIC/EPE-Expanded 26.7 g Polyethylene **RoHS** Compliance Hewlett-Packard 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/supplychain/ gen_specifications.html): 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.



Technical Specifications	
	 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 Managem and Recycling	ent 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.
Hewlett-Packard	For more information about HP's commitment to the environment:
Corporate Environme Information	ntal Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ ecolabels.html ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/operations/ envmanagement.html
Options HP LCD Monitor Quick Release—Part numb EM870AA	
HP Business PC Secur Lock Kit—Part numb PV606AA	
number NQ576AA	-Part 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.
HP Integrated Work (Stand—Part number GN783AA	Center Allows mounting of a 17 - 23 inch diagonal HP LCD monitor and an HP Compaq dc8000 series Ultra-slim Desktop PC as well as select HP Thin Clients on a single stand for the convenience of an "all-in-one" form factor. For more information, refer to this product's QuickSpecs document.



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	Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications
	Number AW664AA	simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.
Other	Accessories Included	USB 3.0 cable, AC Power cable, Notebook Charging cable, Webcam security cover
	Featured Software	Yes, CyberLink YouCam, HP Display Assistant and HP MyRoom software included
	User Guide Languages	English, Danish, Dutch, Finnish, French, German, Italian, Norwegian, Spanish (International), Swedish, Czech, Greek, Hungarian, Polish, Russian, Slovenian, Turkish, Arabic, Portuguese (Brazilian), Bahasa Indonesia, T. Chinese, S. Chinese, Japanese
	Warranty Languages	English, German, French, Italian, Turkish, Greek, Arabic, Hungarian, Czech, Russian, Polish, Japanese, Dutch, Danish, Finnish, Portuguese, Norwegian, Swedish, T. Chinese, Korean, Slovenian, Bahasa, Spanish
	Color	Black
	VESA External Mounting	Yes (one set of standard 4-hole pattern, 100 mm).
	Security Lock-Ready	Yes
Certification and Compliance	CB, CE, TUV, TUV-GS, TCO 5.2, ETL, FCC, CES, S-Mark, VCCI, CCC, CECP, C-Tick, TGM , BSMI, KCC&KC, E- standby, NOM, SEPA, PSB, HRN N N0.201, GOST, SASO, SABS IEC 60950-1, WEEE, ROHS, REACH, EDS.	
Operating System Suppor	t Genuine Microsoft Windows [®] 7 32-bit Professional Genuine Microsoft Windows [®] 7 64-bit Professional Genuine Microsoft Windows [®] Vista Business (32-bit) Genuine Microsoft Windows [®] XP Professional (32-bit)	
Compatibility – USB	Compatible with notebook platforms configured with either USB 2.0 or USB 3.0 ports NOTE: Not compatible with devices that use the Intel [®] Atom™ processor.	
Compatibility – Power Charging	Compatible with any HP Commercial Notebook configured with Smart AC 3-Pin connector4 NOTE: Not compatible with devices that use the Intel [®] Atom™ processor.	
Service and Warranty	Protected by HP, including a 3 year standard limited warranty. Optional Care Pack Services are extended service contracts which go beyond your standard warranties.2	



Technical Specifications

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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.

2 HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at http://www.hp.com/hps/carepack.

3External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

4HP Smart AC Technology will charge HP notebooks up to 90W and only allow power pass through for HP Notebooks above 90W.

All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

