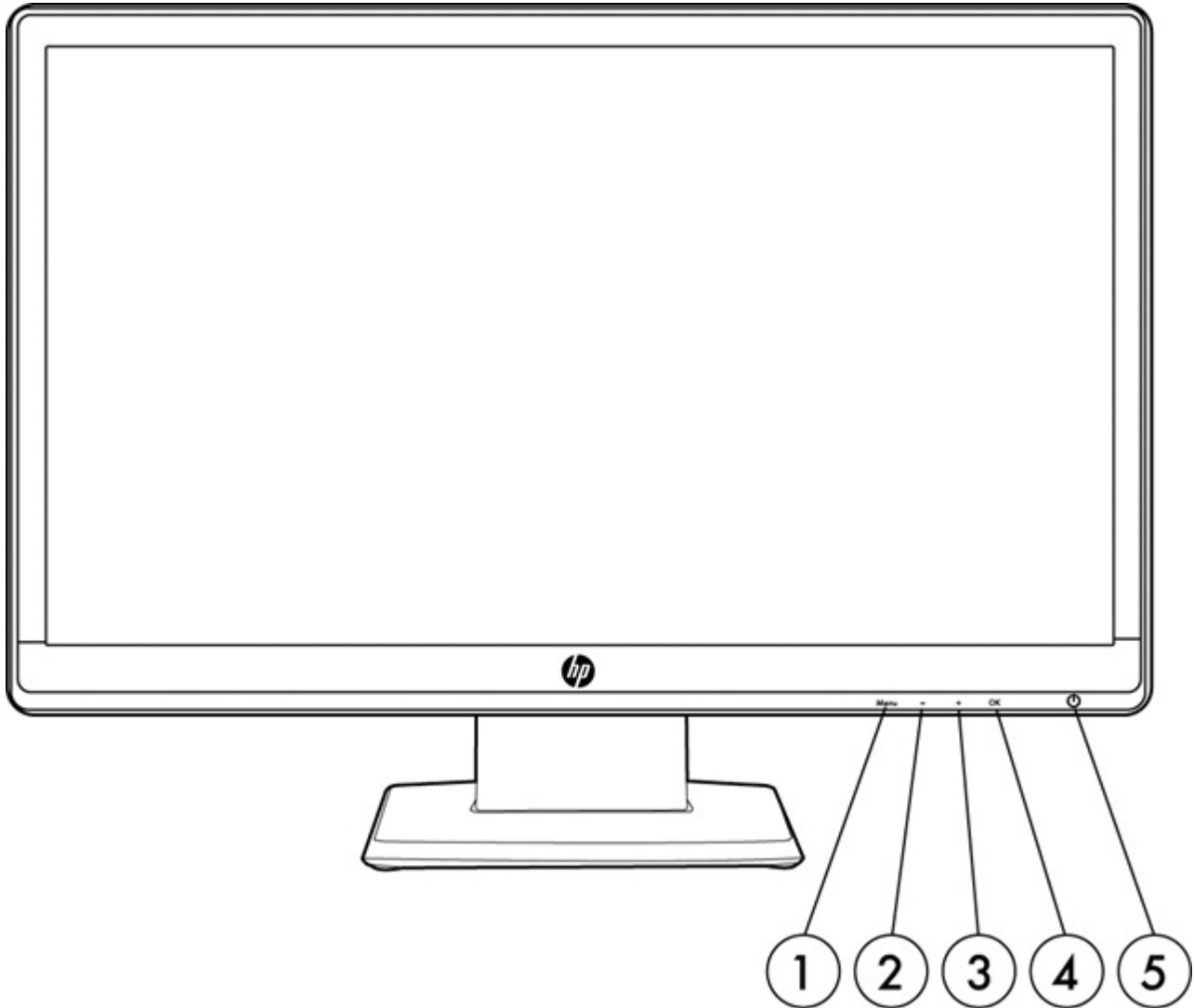


Overview



- | | | | |
|-----------------|--|-------------------|---|
| 1. Menu | Opens, selects or exits the OSD menu. | 4. OK/auto | If the OSD menu is on, press to select the highlighted menu item.
If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image. |
| 2. Minus | If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels. | 5. Power | Turns the monitor on or off.
Blue = Fully powered.
Amber = Sleep mode.
Flashing Amber = Sleep Timer mode. |
| 3. Plus | If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. | | |



Overview

Models

A3R82AA, A3R82A8 - Available February 2012



Technical Specifications

Panel	Type	TN (Twisted Nematic) LED Backlit LCD
	Viewable Image Area (diagonal)	50,8 cm (20.0 in.) widescreen; diagonally measured
	Active Area (W x H)	442,8 mm x 249,1 mm, (17.43 x 9.81 in.)
	Aspect Ratio	16:9
	Viewing Angle (typical)*	Up to 90° horizontal/50° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	200 nits (cd/m ²)
	Contrast Ratio (typical)*	600:1
	Dynamic Contrast Ratio (typical)*	3,000,000:1
	Response Rate (typical)*	5 ms (on/off)
	Pixel Pitch	0.2768 mm
	Backlight Lamp Life (to half brightness)*	30,000 hours
	Color Gamut (typical)*	72%
	Color Support**	Can display up to 16 million colors
	<i>*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.</i>	
On Screen Display (OSD) Controls	Buttons or Switches	OSD menu select, OSD down, OSD UP, OK/Auto , Power
	Languages	English, French, Brazilian Portuguese, Spanish, S. Chinese, T. Chinese, Basaha Indonesia, Japanese, Korean
	User Controls	Brightness, contrast, color (6500k, 9300k, 5000k, custom), Image control, OSD control, Management, Language, Information, Factory Reset, Source Control (on select model), Exit
Signal Interface/ Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	1600 x 900 @ 60 Hz
	Preset VESA Graphic Modes (non-interlaced)	1600 x 900 @ 60 Hz
		1440 x 900 @ 60Hz
		1280 x 1024 @ 60Hz
		1280 x 720 @ 60Hz
		1024 x 768 @ 60Hz
		800 x 600 @ 60Hz
		720 x 400 @ 70Hz
		640 x 480 @ 60Hz
	Text Mode	720 x 400 @ 70 Hz
	Maximum Pixel Clock Speed	170 MHz
	User Programmable Modes	No
	Anti-Glare	Yes



Technical Specifications

	Default Color Temperature	6500 K	
Video/Other Inputs	Plug and Play	Yes	
	Input Connectors	(1) VGA (analog)	
	Input Impedance	75 Ohms	
	Sync Input	TTL separate synch	
	Video Cable	(1) VGA	
	Video Cable Lengths	1,8 m (5.9 ft.)	
	Audio	No	
Power	Input Power	90 - 265 VAC, 45 or 63 Hz	
	Typical Power Consumption	20 W	
	Maximum	22 W	
	Power Saving	< 0.5 W	
	Power Cable Length	1,9 m (6.2 ft.)	
	Mechanical	Dimensions (W x D x H)	Unpacked w/ stand
Unpacked w/o stand (head only)			47,73 x 4,78 x 29,9 cm, (18.79 x 1.88 x 11.77 in.)
Packaged			52,9 x 37,3 x 10,8 cm, (20.82 x 14.68 x 4.25 in.)
Base area (footprint)			18,01 x 17,02 cm, (7.09 x 6.70 in.)
Weight		Head only	2,8 kg (6.17lb.)
		Unpacked	3,5 kg (7.72 lb.)
		Packaged	4,7 kg (10.36 lb.)
Tilt Range		-5° to +19°	
Swivel Range		No	
Height Adjustable		No	
Pivot Rotation		No	
Base		Detachable, ships attached	
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-bulb	
	Altitude – Operating	0 to 5,000 m (16,404 ft)	
	Altitude – Non-operating	0 to 12,192 m (0 to 40,000 ft)	
	White LED Backlights	Yes	
	CCFL Panel	No	
	Arsenic-Free Glass ³	Yes	
	BFR/PVC Free ⁴	No	



Technical Specifications

Environmental Data	Mercury Free	Yes		
	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:		
		<ul style="list-style-type: none"> ● US ENERGY STAR® ● IT ECO declaration ● EPEAT® Silver where HP registers commercial desktop products. See http://www.epeat.net for registration status in your country 		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
	Normal Operation	25.64 W	25.64 W	25.87 W
	Sleep	0.21 W	0.22 W	0.25 W
	Off	0.15 W	0.15 W	0.17 W
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
	Normal Operation	87.6 BTU/hr	87.6 BTU/hr	88.4 BTU/hr
	Sleep	0.7 BTU/hr	0.7 BTU/hr	0.8 BTU/hr
	Off	0.5 BTU/hr	0.5 BTU/hr	0.5 BTU/hr
		* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
	Additional Information	<ul style="list-style-type: none"> ● 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). ● This product is in compliance with the IEEE 1680 (EPEAT®) standard at the Silver level, see www.epeat.net ● Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043. ● This product contains 13.2% post-consumer recycled plastic (by wt.) ● This product is 96.4% recycle-able when properly disposed of at end of life. 		
	Packaging Materials	External:	PAPER/Cardboard & misc	420 g
		Internal:	PLASTIC/Polyethylene low density	12 g
	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		



Technical Specifications

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.
- 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

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



Technical Specifications

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.

For more information about HP's commitment to the environment:

Hewlett-Packard Corporate Environmental Information

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 (sold separately)

HP USB Graphics Adapter-Part number NL571AA

Enables connection of up to six simultaneous displays to help you boost productivity and multi-task across several open applications. Use one Adapter to bridge between a notebook or desktop PC and second monitor or use multiple Adapters to connect several displays to each other.

HP Business PC Security Lock Kit-Part number PV606AA

Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point.

Other

Accessories Included Software

VGA cable and AC Power cable

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 Languages

English, French, Brazilian Portuguese, Spanish, S. Chinese, T. Chinese, Basaha Indonesia, Japanese, Korean

Warranty Languages

English, French, Brazilian Portuguese, Spanish, S. Chinese, T. Chinese, Basaha Indonesia, Japanese, Korean

Color

Black

VESA External Mounting

Yes (one set of standard 4-hole pattern, 75 mm).

Security Lock-Ready

Yes

Certification and Compliance

CB, CE, TUV-GS, ISO9241-307, UL/CAS, FCC, EPA, GOST, NOM, TUV-S, VCCI, KC/KCC, PSB, ISC, CCC, BSMI, C-TICK, CCC, CECP, S EPA, CEL Grade 1, E-standby ENERGY STAR®, EPEAT® Silver²

Compatibility

Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.

Service and Warranty

Protected by HP, including a 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) standard limited warranty. Certain restrictions and exclusions apply.¹



Technical Specifications

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¹ 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>.

² EPEAT® Silver where HP registers commercial display products. See www.epeat.net for registration status in your country.

³ Arsenic and its compounds were not detected using US EPA Test Methods 3052 & 3052/6010b by ICP or ICP-AES.

⁴ Meets the evolving definition of 'BFR/PVC-free' as set forth in the "iNEMI Position Statement on the 'Definition of Low-Halogen' Electronics (BFR/CFR/PVC-Free)". Plastic parts contain < 1000 ppm (0.1%) of bromine [if the Br source is from BFRs] and < 1000 ppm (0.1%) of chlorine [if the Cl source is from CFRs or PVC or PVC copolymers]. All printed circuit board (PCB) and substrate laminates contain bromine/chlorine total < 1500 ppm (.15%) with a maximum chlorine of 900 ppm (.09%) and maximum bromine being 900 ppm (.09%). External cables (power, video and USB) are not BFR/PVC-free. Service parts after purchase may not be BFR/PVC-free.

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.

