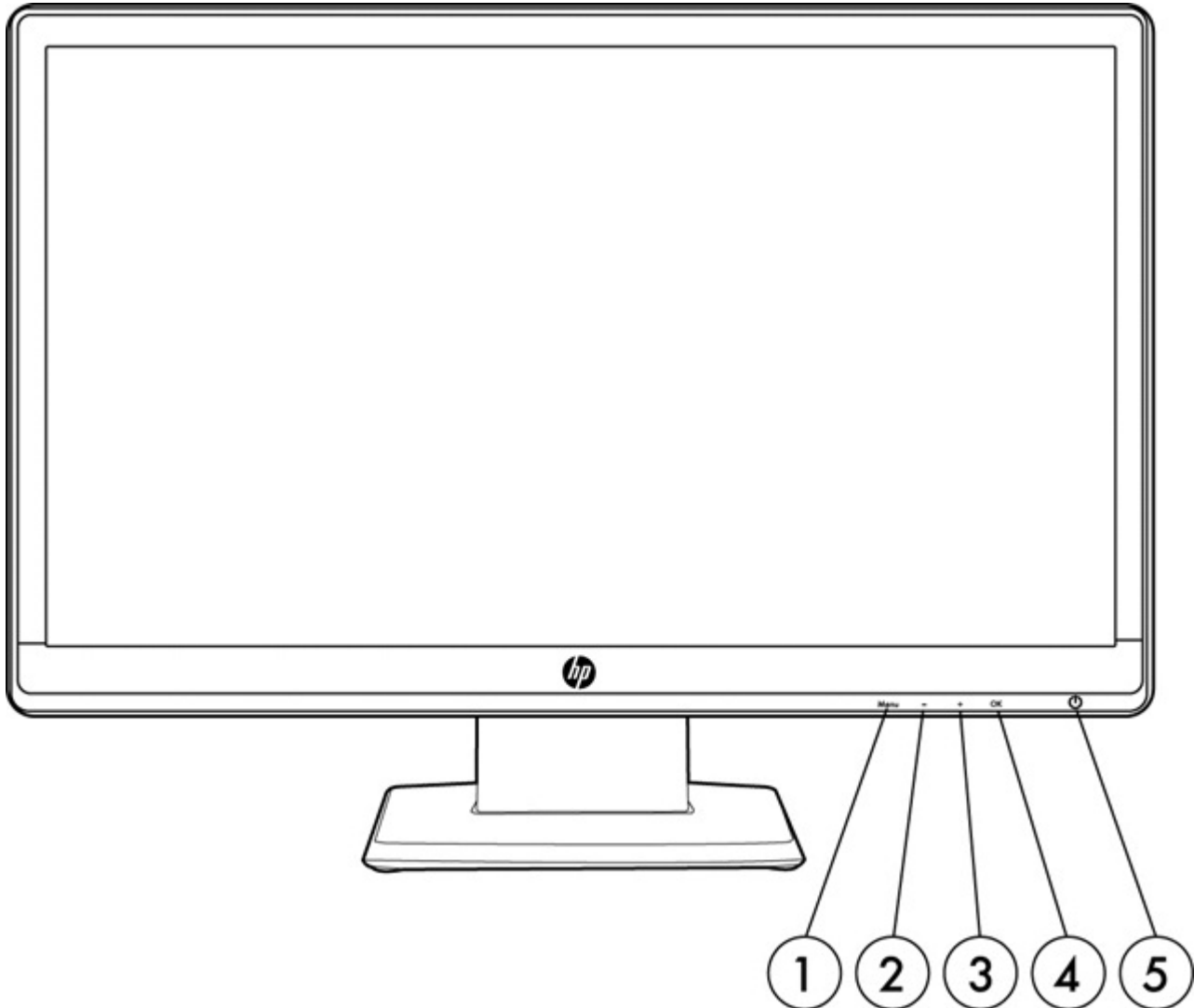


### Overview



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

### Overview

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### Models

A3R82AA, A3R82A8 - Available February 2012

### Technical Specifications

<b>Panel</b>	<b>Type</b>	TN (Twisted Nematic) LED Backlit LCD
	<b>Viewable Image Area</b> (diagonal)	<b>50,8 cm</b> (20.0 in.) widescreen; diagonally measured
	<b>Active Area</b> (W x H)	<b>442,8 mm x 249,1 mm</b> , (17.43 x 9.81 in.)
	<b>Aspect Ratio</b>	16:9
	<b>Viewing Angle</b> (typical)*	Up to 90° horizontal/50° vertical (10:1 minimum contrast ratio)
	<b>Brightness</b> (typical)*	200 nits (cd/m <sup>2</sup> )
	<b>Contrast Ratio</b> (typical)*	600:1
	<b>Dynamic Contrast Ratio</b> (typical)*	3,000,000:1
	<b>Response Rate</b> (typical)*	5 ms (on/off)
	<b>Pixel Pitch</b>	0.2768 mm
	<b>Backlight Lamp Life</b> (to half brightness)*	30,000 hours
	<b>Color Gamut</b> (typical)*	72%
	<b>Color Support**</b>	Can display up to 16 million colors
<p>*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.</p>		
<b>On Screen Display (OSD) Controls</b>	<b>Buttons or Switches</b>	OSD menu select, OSD down, OSD UP, OK/Auto , Power
	<b>Languages</b>	English, French, Brazilian Portuguese, Spanish, S. Chinese,T. Chinese, Basaha Indonesia, Japanese, Korean
	<b>User Controls</b>	Brightness, contrast, color (6500k, 9300k, 5000k, custom), Image control, OSD control, Management, Language, Information, Factory Reset, Source Control (on select model), Exit
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	24 to 83 kHz
	<b>Vertical Frequency</b>	50 to 76 Hz
	<b>Native Resolution</b>	1600 x 900 @ 60 Hz
	<b>Preset VESA Graphic Modes</b> (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	
<b>Text Mode</b>	720 x 400 @ 70 Hz	
<b>Maximum Pixel Clock Speed</b>	170 MHz	

### Technical Specifications

	<b>User Programmable Modes</b>	No	
	<b>Anti-Glare</b>	Yes	
	<b>Default Color Temperature</b>	6500 K	
<b>Video/Other Inputs</b>	<b>Plug and Play</b>	Yes	
	<b>Input Connectors</b>	(1) VGA (analog)	
	<b>Input Impedance</b>	75 Ohms	
	<b>Sync Input</b>	TTL separate synch	
	<b>Video Cable</b>	(1) VGA	
	<b>Video Cable Lengths</b>	<b>1,8 m</b> (5.9 ft.)	
	<b>Audio</b>	No	
<b>Power</b>	<b>Input Power</b>	90 - 265 VAC, 45 or 63 Hz	
	<b>Typical Power Consumption</b>	20 W	
	<b>Maximum</b>	22 W	
	<b>Power Saving</b>	< 0.5 W	
	<b>Power Cable Length</b>	<b>1,9 m</b> (6.2 ft.)	
<b>Mechanical</b>	<b>Dimensions (W x D x H)</b>	<b>Unpacked w/ stand</b>	<b>47,73 x 17 x 35,66 cm,</b> (18.79 x 6.69 x 14.04 in.)
		<b>Unpacked w/o stand (head only)</b>	<b>47,73 x 4,78 x 29,9 cm,</b> (18.79 x 1.88 x 11.77 in.)
		<b>Packaged</b>	<b>52,9 x 37,3 x 10,8 cm,</b> (20.82 x 14.68 x 4.25 in.)
		<b>Base area (footprint)</b>	<b>18,01 x 17,02 cm,</b> (7.09 x 6.70 in.)
	<b>Weight</b>	<b>Head only</b>	<b>2,8 kg</b> (6.17lb.)
		<b>Unpacked</b>	<b>3,5 kg</b> (7.72 lb.)
		<b>Packaged</b>	<b>4,7 kg</b> (10.36 lb.)
	<b>Tilt Range</b>	-5° to +19°	
	<b>Swivel Range</b>	No	
	<b>Height Adjustable</b>	No	
	<b>Pivot Rotation</b>	No	
	<b>Base</b>	Detachable, ships attached	
<b>Environmental</b>	<b>Temperature – Operating</b>	<b>5° to 35° C</b> (41° to 95° F)	
	<b>Temperature– Non-operating</b>	<b>-20° to 60° C</b> (-4° to 140° F)	
	<b>Humidity – Operating</b>	20% to 80% non-condensing	
	<b>Humidity – Non-operating</b>	5% to 95%, 38.7° C max wet-bulb	
	<b>Altitude – Operating</b>	<b>0 to 5,000 m</b> (16,404 ft)	
	<b>Altitude – Non-operating</b>	<b>0 to 12,192 m</b> (0 to 40,000 ft)	

### Technical Specifications

<b>White LED Backlights</b>	Yes
<b>CCFL Panel</b>	No
<b>Arsenic-Free Display Glass</b>	Yes
<b>Low Halogen2</b>	No
<b>Mercury-Free Display Backlighting</b>	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 declaration

#### Energy Consumption

	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
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\*

	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
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

- 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 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

<b>External:</b>	PAPER/Cardboard & misc	420 g
<b>Internal:</b>	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 regulatory limits (refer to the HP General Specification for the Environment at:

### Technical Specifications

[http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\\_specifications.html](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 (PBEBs)
- 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 treatment information for each product type for use by treatment facilities. This information

### Technical Specifications

(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.

**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.

**Other**

**Accessories Included**

VGA cable and AC Power cable

**Software**

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

**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 year standard limited warranty. Optional Care Pack Services are extended service contracts which go beyond your standard warranties. 1

### Technical Specifications

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1HP 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>.

2External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

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.