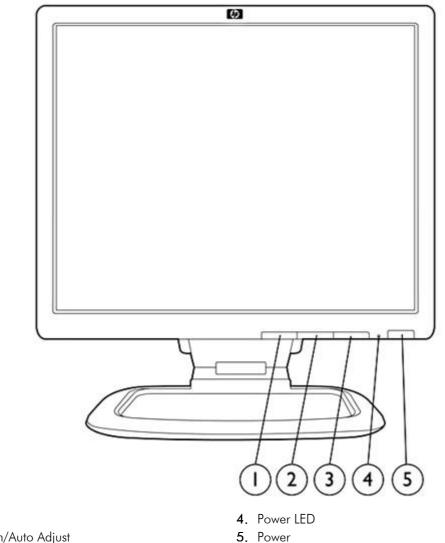
Overview



- 1. Menu/Select
- 2. "-" OSD Navigation/Auto Adjust
- 3. "+" OSD Navigation/Input Select

#### Models

Part Number: EM890AA#ABA

EM890A2#ABA (TAA Compliant)



### Technical Specifications

Panel	Туре	Active matrix, thin film transistor (TFT)
	Viewable Image Area	19 in (48.25 cm)
	(diagonal)	
	Screen Opening (WxH)	14.9 x 11.9 in (37.8 x 30.3 cm)
	Panel Type	TN
	Aspect Ratio	5:4
	Viewing Angle (typical)*	Up to 160° horizontal/160° vertical (10:1 contrast ratio)
	Brightness (typical)*	250 nits (cd/m <sup>2</sup> )
	Contrast Ratio (typical)*	1000:1
	Response Time (typical)*	5 ms (rise + fall)
	Pixel Pitch	0.294 mm
	Backlight Lamp Life (to half brightness)	40K hours
	Color Support	16 million colors
	the second se	ations represent the typical specifications provided by HP's component formance may vary either higher or lower.
Video/Other Inputs	Plug and Play	Yes (supports VESA DDC2B and DDC/CI; PC2001 compliant)
	USB 2.0 Hub	Self-powered; two ports (cable included)
	Input Connectors	Two connectors: one 15-pin mini D-sub analog VGA and one DVI-D
	Input Impedance	75 ohms ± 2%
	Sync Input	Separate sync (HSYNC/VSYNC)
	Video Cable	15-pin D-sub mini connector; detached
	Video Cable Length	70.9 in/1.8 m; detached
Signal Interface/	Horizontal Frequency	24 to 83 kHz
Performance	Vertical Frequency	50 to 77 Hz
	Native Resolution	1280 x 1024 @ 60 Hz (analog)
		1280 x 1024 @ 60 Hz (digital)
	<b>Max Resolution</b> (Analog)	1280 x 1024 @ 75 Hz
	Max Resolution (Digital)	1280 x 1024 @ 75 Hz
	Preset VESA Modes	640 x 480 @ 60 Hz, 72 Hz, 75 Hz
	(non-interlaced)	720 x 400 @ 70 Hz
		800 x 600 @ 60 Hz, 72 Hz, 75 Hz
		1024 x 768 @ 60 Hz, 70 Hz, 75 Hz
		1280 x 1024 @ 60 Hz, 75 Hz
	Fail Safe Mode	Yes (limits out of range signal messages)
	Max Pixel Clock Speed	140 MHz
	User Programmable Modes	Yes, 15
	Anti-Glare	Yes
	Anti-Static	Yes



Technical Specifications

	AssetControl	Yes (accessible on HP Compaq Business Desktops featuring HP Client Manager)	
	Default Color Temperature	6500° Kelvin	
On Screen Display (OSD) Controls		3-button OSD (menu, min include dual-input switch, a	us, plus); power on/off; second level OSD buttons auto-adjust
	Languages	English, Spanish, French, ( Japanese	German, Dutch, Italian, Simplified Chinese,
	User Controls	color temperature, serial n	ast, brightness, clock, clock phase, selectable umber, mode displayed, sleep timer, input lividual color contrast, full-screen resolution
Power	Power Supply	Auto-ranging, 90 to 265 VAC; internal power supply	
	Input Power	100 ~ 240 VAC	
	Nominal Current	1.5 A maximum	
	Frequency	50 ~ 60 Hz	
	Maximum	33 watts	
	Average	21 watts	
	Power Saving Mode	< 1 watts	
	Off Mode	< 0.5 watts	
	Power Cable Length	74.8 in (1.9 m); detached	
Mechanical	<b>Dimensions</b> ( $H \times W \times D$ )	Packaged	22.2 x 16.5 x 9.0 in (56.5 x 42.0 x 22.6 cm)
		<b>Unpacked with stand</b> (minimum)	14.9 x 16.30 x 11.9 in (37.8 x 41.4 x 30.1 cm)
		<b>Unpacked with stand</b> (maximum height)	20.0 x 16.3 x 11.9 in (50.8 x 41.4 x 30.1 cm)
		Base area (footprint)	11.85 x 11.5 in (30.1 x 29.3 cm)
		Panel only (without stand)	16.3 x 13.7 x 2.3 in (41.4 x 34.7 x 5.8 cm)
	Weight	Packaged	20 lb (9.1 kg)
		Unpacked with stand	16 lb (7.3 kg)
		Panel Only (without stand)	10 lb (4.5 kg)
	Bezel Width	18 mm left and right, 18 n	nm top, and 27 mm bottom
	Tilt Range	-5° to $+35^\circ$	
	Swivel Range	$\pm$ 45° horizontal swivel	
	Height Adjustable	Yes (5.1 in/13.0 cm adjus	tment range)
	Pivot Rotation	Yes, 90° into portrait orien	tation
	Base	Ships attached and is remo	ovable (four screws)
Environmental	Temp. – Operating	41° to 95° F (5° to 35° C)	
	Temp. – Non-operating	-4° to 140° F (-20° to 60°	C)
	Humidity – Operating	20% to 80%, non-condens	sing
	Humidity – Non- operating	5% to 90%	
	Altitude – Operating	0 to 16,404 ft (0 to 5,000	m)
	Altitude – Non-operating	0 to 40,000 ft (0 to 12,19	2 m)



### Technical Specifications

Environmental Data	Eco-Label Certifications and Declarations	•	ed or is in the process of b d may be labeled with one	0
		<ul> <li>ENERGY STAR®</li> <li>IT ECO declarat</li> <li>EPEAT® Gold</li> <li>TCO 5.0</li> </ul>		
	Energy Consumption (in accordance with ENERGY STAR® test method)	115VAC, 60 Hz	230VAC, 50 Hz	100VAC, 60 Hz
	Normal Operation	15.8 W	15.6 W	15.8 W
	Sleep	0.46 W	0.62 W	0.45 W
	Off	0.34 W	0.49 W	0.33 W
	Heat Dissipation*	115VAC, 60 Hz	230VAC, 50 Hz	100VAC, 60 Hz
	Normal Operation	54 BTU/hr	53 BTU/hr	54 BTU/hr
	Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
	Off	1 BTU/hr	2 BTU/hr	1 BTU/hr
	* Heat dissipation is calcu one hour.	lated based on the meas	ured watts, assuming the s	ervice level is attained for
	Ergonomics	The monitor meets the panel displays.	ergonomic requirement of	EN-ISO 13406-2 for flat
	Additional Information	This product is in comp (RoHS) Directive, 2002		of Hazardous Substances
		-	gned to comply with the W WEEE) Directive, 2002/96,	
			liance with California Prop ng Water and Toxic Enforce	
		This product is in comp Gold level, see www.ep	liance with the IEEE 1680 peat.net.	(EPEAT®) standard at the
		Plastics parts weighing ISO 11469 and ISO10	over 25 grams used in the 043.	product are marked per
		Display meets the requi TCO and prEN50279	irement for low frequency ( A/B/C.	electromagnetic fields per
		This product contains C	)% recycled materials (by w	rt.)
		This product is 98.2% r	recyclable when properly d	isposed of at end of life.
		Packaging Materials		
		•	ed carton – 865 g ne low density – 18 g	



Fechnical Specifications	
	<ul> <li>Internal:</li> <li>O EPS (Expanded Polystyrene) – 235 g</li> </ul>
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 www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html
	<ul> <li>Asbestos</li> <li>Certain Azo Colorants</li> <li>Certain Brominated Flame Retardants - may not be used as flame retardants in plastics</li> <li>Cadmium</li> <li>Chlorinated Hydrocarbons</li> <li>Chlorinated Paraffins</li> <li>Formaldehyde</li> <li>Halogenated Diphenyl Methanes</li> <li>Lead carbonates and sulfates</li> <li>Lead and Lead compounds</li> <li>Mercuric Oxide Batteries</li> <li>Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>Ozone Depleting Substances</li> <li>Polybrominated Biphenyl (PBBs)</li> <li>Polybrominated Biphenyl Ethers (PBBEs)</li> <li>Polybrominated Biphenyl (PCB)</li> <li>Polychlorinated Terphenyls (PCT)</li> <li>Polychlorinated Terphenyls (PCT)</li> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>Radioactive Substances</li> <li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
Packaging	HP follows these guidelines to decrease the environmental impact of product packaging:
	<ul> <li>Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>Design packaging materials for ease of disassembly.</li> <li>Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>
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: www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible



Technical Spe	cifications	
		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 Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications www.hp.com/hpinfo/globalcitizenship/environmentproductdesign/ ecolabels.html ISO 14001 certificates: www.hp.com/hpinfo/globalcitizenship/environment/ operations/envmanagement.html
Options	HP LCD Speaker Bar—Part number NQ576AA	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 LCD Monitor Quick Release—Part number EM870AA*	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. For more information, refer to this product's QuickSpecs document.
	HP Integrated Work Center Stand—Part number LH526AA	Allows mounting of a 17 - 24 inch (43.18- to 60.96 cm) diagonal HP LCD monitor and an HP Compaq 8000 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.
	HP Integrated Work Center for Small Form Factor—Part number QK549AT	Allows mounting of a 17- to 24-inch (43.18 to 60.96 cm) diagonal HP LCD monitor with an HP Compaq Small Form Factor Desktop PC. This compact system configuration saves you valuable desktop room to make the most of a space-constrained office environment.
	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.
	upon the mounting configuent i.e. the combined weight of pounds. Because mounting vary, mounting fasteners a you consult with a qualifier	as been designed to support a maximum of up to 24 lbs (10.9 kg) depending uration used. Please note this is a total weight limit for all devices mounted, of the monitor and a second device such an HP Thin Client cannot exceed 24 g surfaces vary widely and the final mounting method and configuration may ire not supplied (other than the VESA-compliant screws). HP recommends that d engineering, architectural or construction professional to determine the ptitude fractions and to approve that



appropriate type and quantity of mounting fasteners required for your application and to ensure that

#### HP Compaq LA1951g 19-inch LCD Monitor

#### **Technical Specifications**

your mounting solution is properly installed to support applied loads.

	your mounting solution is	properly installed to support applied loads.
Other	Accessories Included	VGA cable, DVI cable, AC power cord, USB cable, user CD-ROM
	Software	HP Display LiteSaver feature allows you to schedule Sleep mode at preset times to help protect the monitor against image retention, drastically lower power consumption and energy costs, and extend the lifespan of the monitor.
		HP Display Assistant is a software utility that allows monitor adjustment and color calibration using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC.
	User Guide Languages	English, French, German, Spanish, Italian, Dutch, Brazilian Portuguese, Danish, Finnish, Greek, Japanese, Korean, Latin American Spanish, Norwegian, Polish, Russian, Slovenian, Turkish, Swedish, Traditional Chinese, Simplified Chinese
	Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, Simplified Chinese
	Bezel Color	Silver
	VESA Mounting Support	Yes (standard 4 hole pattern, 100 mm); base must first be removed
	Security Lock Compatible	Yes
Certification and Compliance	TCO 5.0 Displays, ISO 9241-307, CISPR Requirements, VCCI Approvals, KC and KCC (Korean) Requirements, CSA 60950-1, UL 60950-1, EN55022 Class B, CNS 13438 Class B, IEC 60950-1, China Energy Label (CEL), China MEPS, Korea MEPS (pending, Energy Boy), SmartWay - NA only - Energy logistics, EUP Lot 6 Tier 1 AS/NZS 3548 Class B Approval, "GS" Mark, TUV Approvals, GEEA, CE Marking, FCC Part 15 class B Approval, ENERGY STAR® qualified, EN55024 Class B, EN60950 - 1, CUL, CCIB, CCEE, IT ECO (EDS), EPEAT® Gold (select regions)	
Compatibility	VESA Video Signal Standard (VSIS) Compliant video cards have been tested and proven compatible for use with this monitor. Recommended for use with HP products.	
Service and Warranty	Three years parts, labor, and on-site service. 24-hour, 90-day, toll-free technical support. Replacement options may include second business day on-site service, or next business day direct replacement, at HP's sole discretion.* With direct replacement, HP will ship a replacement display product directly to you. Using the prepaid shipping labels provided, return your failed display to HP in the same packaging as the replacement. Certain restrictions and exclusions apply. For details see your product warranty or contact HP Customer Support.	
	date of hardware purchas Pack Services Lookup Too information by product is	extend service contracts beyond the standard warranties. Service starts from e. To choose the right level of service for your HP product, use the HP Care I at: www.hp.com/go/lookuptool. Additional HP Care Pack Services available at: www.hp.com/hps/carepack. Service levels and response times for depending on your geographic location.

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