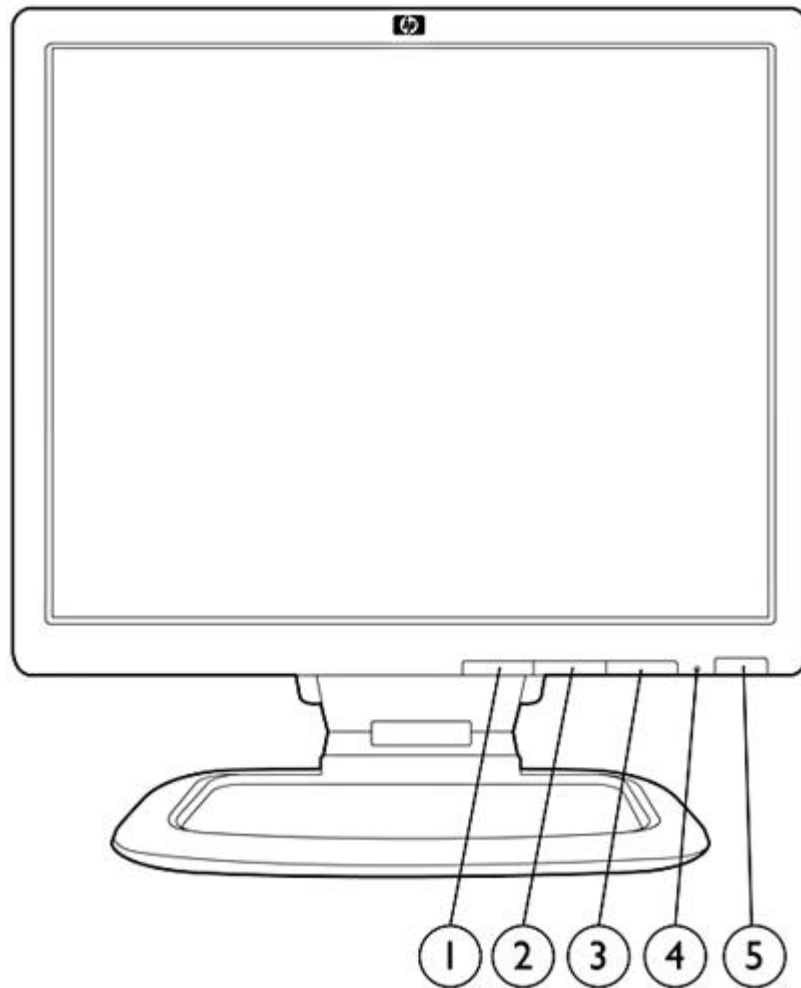## Overview

1. Menu/Select
2. "-" OSD Navigation/Decrease Adjust/Auto Adjust
3. "+" OSD Navigation/Increase Adjust
4 Power LED
5. Power

Models

EM887AA

QuickSpecs

Technical Specifications

Panel		
	Type	19-inch Active Matrix TFT (thin film transistor)
	Viewable Image Area (diagonal)	19 in (48.26 cm)
	Screen Opening (W x H)	14.8 x 11.9 in (37.8 x 30.3 cm)
	Panel Type	TN
	Aspect Ratio	5:4
	Viewing Angle (typical)*	160 degrees horizontal/160 degrees vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	250 nits (cd/m^2)
	Contrast Ratio (typical)*	1000:1
	Response Rate (typical)*	5 ms (rise + fall)
	Pixel Pitch	0.294 mm
	Backlight Lamp Life (to half brightness)	50K hours
	Color Gamut	72%
	Color Support*	Can display up to 16 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 (OSD) Controls		
	Buttons or Switches	3-button OSD (menu, minus, plus); power on/off
	Languages	English, French, German, Spanish, Italian, Dutch, Simplified Chinese (Portuguese and Japanese on regional models)
	User Controls	Image Control (auto, horizontal, vertical) Color Temperature (6500k, 9300k, Custom, sRGB, sharpness) Brightness Contrast Clock, Clock Phase Monitor Management (power saver, sleep, power on recall, power on status, DDC/CI support, bezel power LED) Factory Reset

Signal Interface/ Performance		
	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	1280 x 1024 @ 60 Hz (recommended) (SXGA)
	Maximum Resolution (Digital)	N/A
	Preset VESA Modes (non-interlaced)	1280 x 1024 @ 60 Hz
		1280 x 960 @ 60 Hz
		1280 x 800 @ 60 Hz
		1280 x 720 @ 60 Hz
		1024 x 768 @ 60 Hz
		800 x 600 @ 60 Hz
		720 x 400 @ 70 Hz

Technical Specifications

		640 x 480 @ 60 Hz	
	Max Pixel Clock Speed	140 MHz	
	User Programmable Modes	Yes, 8	
	Anti-Glare	Yes	
	Anti-Static	Yes	
	Default Color Temperature	6500 degrees Kelvin	
Video Input	**Plug and Play**	Yes	
	Input Signal	15 pin D-sub (Analog VGA)	
	Input Impedance	75 ohms (2 % value change allowed)	
	Sync Input	TTL separate synch	
	Video Cable	Detachable 15-pin D-sub mini connector	
	Video Cable Length	70.8 in (1.8 m)	
Power	**Power Supply**	Internal power adapter	
	Input Voltage	100 - 240 VAC	
	Nominal Current	< 0.50 Ampere	
	Frequency	50/60 Hz	
	Maximum	< 28 watts	
	Typical	24 watts	
	Power Saving	< 2 watts	
	Power Cable Length	74.8 in (1.9 m); detachable	
Mechanical	**Dimensions** (H x W x D)	**Unpacked w/ stand**	16.4 x 16.3 x 8.1 in (41.6 x 41.4 x 20.6 cm)
		Display Head only	13.7 x 16.3 x 2.3 in (34.7 x 41.4 x 5.8 cm)
		Packaged	5.5 x19.1 x 19.9 in (13.9 x 48.6 x50.6 cm)
	Weight	**Head only**	9.0 lb (4.1 kg)
		Unpacked	10.1 lb (4.6 kg)
		Packaged	12.8 lb (5.8 kg)
	Tilt Range	-5 to +25 degrees vertical tilt	
	Swivel Range	None	
	Height Adjustable	No	
	Pivot Rotation	No	
	Base and Stand	Detachable	
Environmental	**Temperature – Operating**	41° to 95° F (5° to 35° C) non-condensing	
	Temperature– Non-operating	-4° to 140° F (-20° to 60° C)	
	Humidity – Operating	20% to 80%, non-condensing	
	Humidity – Non-operating	5% to 90%	
	Altitude – Operating	0 to 16,404 ft (0 to 5,000 m)	

Technical Specifications

	Altitude – Non-operating	0 to 40,000 ft (0 to 12,192 m)		

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
- EPEAT® - Silver
- TCO 5.0

Energy Consumption	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	15.3W	15.1W	15.4W
Sleep	0.43W	0.59W	0.40W
Off	0.29W	0.45W	0.28W

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	52 BTU/hr	52 BTU/hr	53 BTU/hr
Sleep	1 BTU/hr	2 BTU/hr	1 BTU/hr
Off	1 BTU/hr	2 BTU/hr	1 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).

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 0% post-consumer recycled plastic (by wt.)

This product is 98.0% recycle-able when properly disposed of at end of life.

Packaging Materials

- External:
  - Corrugated carton – 775 g
  - Polyethylene low density – 26 g
- Internal:
  - EPS (Expanded Polystyrene) – 235 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

Technical Specifications

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.
- 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	Hewlett-Packard offers end-of-life HP product return and recycling programs

Technical Specifications

	and Recycling	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 Corporate Environmental Information	For more information about HP's commitment to the environment: 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 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 LCD 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.

* 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.

	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 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.

Technical Specifications

	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.	
Other	**Accessories Included**	Detachable VGA cable, detachable AC power cord, documentation kit, and user CD.	
	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, theft deterrence, and color calibration using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC.	
	User Guide Languages	English, Brazilian Portuguese, French, LA Spanish, Korean, Simplified Chinese, Traditional Chinese, Japanese, Danish, Dutch, Finnish, German, Italian, Norwegian, Swedish, Greek, Polish, Russian, Slovenian, Turkish	
	Warranty Languages	**Americas**	English, Canadian French
		LA	Spanish, Brazilian Portuguese
		EMEA	English, Danish, Dutch, Finnish, European French, German, Italian, Norwegian, Castilian Spanish, Swedish
		Asia/Pacific	English, Bahasa, S. Chinese, T. Chinese, Korean, Japanese, Chinese
	Color	Black/Silver	
	VESA External Mounting	Yes (Standard 4 hole pattern, 100 mm)	
	Kensington Lock-ready	Yes	
Certification and Compliance	ISO 9241-307 pixel defect guidelines, CISPR, VCCI, CSA (Canada), ACA (Australia), TUV and GS Mark (German ergonomic), BSMI (Taiwan), CCC (China), MIC (South Korea), NOM (Mexico), Eastern European approvals, CE Marking, FCC approval,TCO '5.0 (emissions, ergonomics, environment), Microsoft® Windows® certified (Microsoft® Windows® 2000, Microsoft Windows XP, and Windows Vista®), , GOST (Russia), SASO (Saudi Arabia), , EN55022 Class B, IEC 60950-1, EN55024 Class B		
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. 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. Optional Care Pack Services are extended service contracts which go beyond your standard warranties.For details see your product warranty or contact HP Customer Support.		

Technical Specifications

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.