QuickSpecs

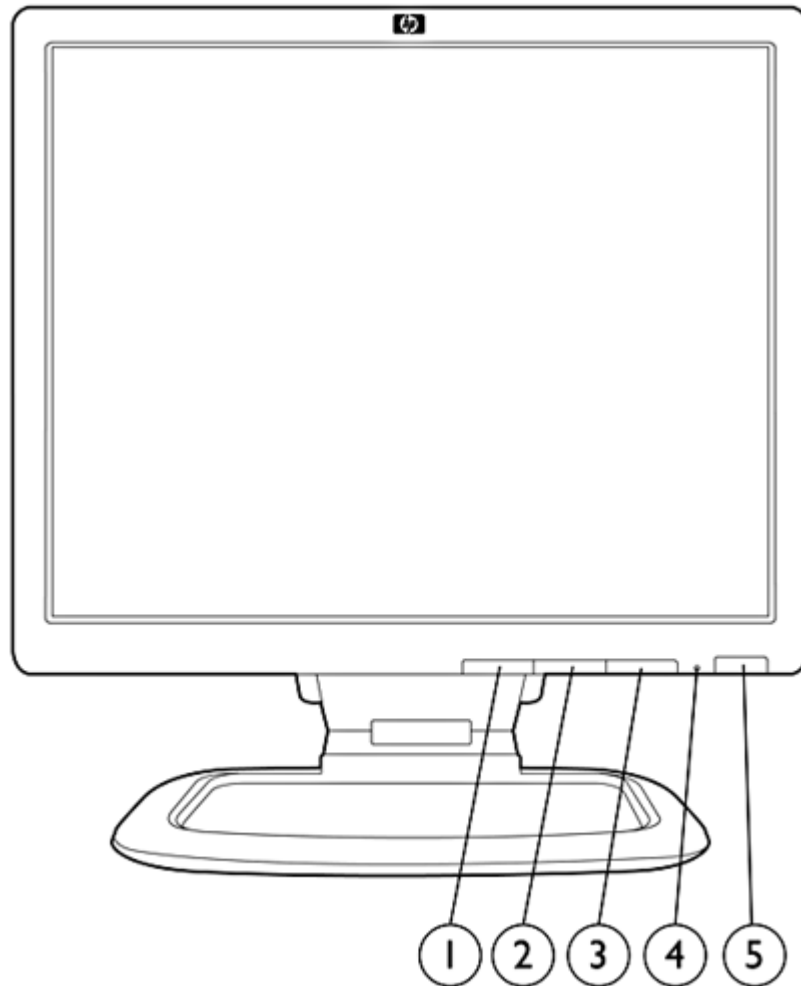*Overview*

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

4. Power LED
5. Power

Models

Part Number: KR145AA and KR145A2 (TAA compliant/US only)

Technical Specifications

Panel	Type	Active matrix, thin film transistor (TFT)
	Viewable Image Area (diagonal)	19 in (48.25 cm)
	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)*	300 nits (cd/m^2)
	Contrast Ratio (typical)*	800:1
	Response Time (typical)*	5 ms (rise + fall)
	Pixel Pitch	0.294 mm
	Backlight Lamp Life (to half brightness)	40K hours

* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance 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 Signal	VGA and DVI-D connectors; HDCP support
	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/ Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 77 Hz
	Native Resolution	1280 x 1024 @ 60 Hz (analog)
		1280 x 1024 @ 60 Hz (digital)
	Max Resolution (Analog)	1280 x 1024 @ 75 Hz
	Max Resolution (Digital)	1280 x 1024 @ 75 Hz
	Preset VESA Modes (non-interlaced)	640 x 480 @ 60 Hz, 72 Hz, 75 Hz 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
	Preset MAC Mode	832 x 624 @ 75 Hz
		1152 x 870 @75 Hz
	Preset SUN Mode	1152 x 900 @ 76 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 Colour Temperature	6500° Kelvin	
On Screen Display (OSD) Controls	Buttons and Switches	3-button OSD (menu, minus, plus); power on/off; second level OSD buttons include dual-input switch, auto-adjust	
	Languages	English, Spanish, French, German, Dutch, Italian, Simplified Chinese, Japanese	
	User Controls	Size and positioning, contrast, brightness, clock, clock phase, selectable colour temperature, serial number, mode displayed, sleep timer, input selection, factory reset, individual colour 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	44 watts	
	Average	32 watts	
	Power Saving Mode	< 2 watts	
	Off Mode	< 1 watts	
	Power Cable Length	74.8 in (1.9 m); detached	
Mechanical	Dimensions (H x W x D)	Packaged	22.2 x 16.5 x 9.0 in (56.5 x 42.0 x 22.6 cm)
		Unpacked with stand (minimum)	14.9 x 16.30 x 11.9 in (37.8 x 41.4 x 30.1 cm)
		Unpacked with stand (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 mm top, and 27 mm bottom	
	Tilt Range	-5° to +35°	
	Swivel Range	± 45° horizontal swivel	
	Height Adjustable	Yes (5.1 in/13.0 cm adjustment range)	
	Pivot Rotation	Yes, 90° into portrait orientation	
	Base	Ships attached and is removable (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-condensing	
	Humidity - Non-operating	5% to 90%	
	Altitude - Operating	0 to 12,000 ft (0 to 3,658 m)	
	Altitude - Non-operating	0 to 40,000 ft (0 to 12,192 m)	
Environmental Data	Eco-Label Certifications &	This product has received or is in the process of being certified to the	

Technical Specifications

declarations	following approvals and may be labeled with one or more of these marks:

- ENERGY STAR®
- IT ECO declaration
- TCO 03
- Taiwan Green Mark
- EPEAT™ Gold

Energy Consumption (in accordance with US Energy Star test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	20.4W	20.6 W	20.8 W
Sleep	0.53 W	0.64 W	0.53 W
Off	0.42 W	0.58 W	0.40 W

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	70 BTU/hr	70 BTU/hr	71BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 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.

Longevity and Upgrading	Upgradeability features contained in the product include: 2 USB ports
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 Gold level, see: www.epeat.net.

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

Display meets the requirement for low frequency electromagnetic fields per MPR-II and prEN50279 A/B/C

This product contains 0.034% recycled materials (by wt.)

This product is 98.9% recyclable when properly disposed of at end of life.

Packaging Materials

- External:
    - Wood(pallet) 250 g
- Internal:
    - Paper / Cardboard 158.9 g

Technical Specifications

      o Polyethylene low density 14.5 g
      o Paper 40 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 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.

Technical Specifications

- 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 (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 Silver LCD Speaker Bar - Part number: EE418AA	Powered directly by the monitor or 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 external jack for headphones. Sold separately. For more information, refer to the product's QuickSpec.
	HP Integrated Work Centre Stand - Part number: GN783AA	Allows mounting of a 17- or 19-inch HP flat panel monitor and an HP Compaq dc7800 or dc7900 Ultra-slim Desktop PC or HP t5000 series Thin Client on a single stand for the convenience of an "all-in-one" form factor. Sold separately. For more information, refer to this product's QuickSpec document.
	HP LCD Monitor Quick Release - Part number EM870AA*	An easy-to-use, VESA-compliant, flat panel monitor mounting solution that allows you to quickly and securely attach a flat panel monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpec document.
	HP Security Lock-Part number PC766A	Combines aircraft-grade steel and Kevlar fiber to securely lock down your monitor and help prevent theft.

* The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) depending upon the mounting configuration used. Please note this is a total weight limit for all devices mounted, i.e. the combined weight of the monitor and a second device such as the HP Thin Client cannot exceed 24 pounds. 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.

Other	Accessories Included	VGA cable; DVI-D to DVI-D cable; USB cable, power cable, user CD ROM

Technical Specifications

	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 colour 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
	Cabinet Colour	Carbonite black and silver (two-tone)
	VESA Mounting Support	Yes (standard 4 hole pattern, 100 mm); base must first be removed
	Security Lock	Yes
Certification and Compliance		Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, ENERGY STAR® qualified, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 13406-2 Compliant (Pixel Defect Guidelines), Mexican NOM Approval, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft® Windows® Certification, Windows Vista® Certification, EPEAT™ Gold
Compatibility		VESA Video Signal Standard (VSIS) Compliant video cards have been tested and proven compatible for use with the HP L1950g 19-inch LCD Monitor. Recommended for use with HP products.
Service and Warranty		Three years parts, labour, 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.