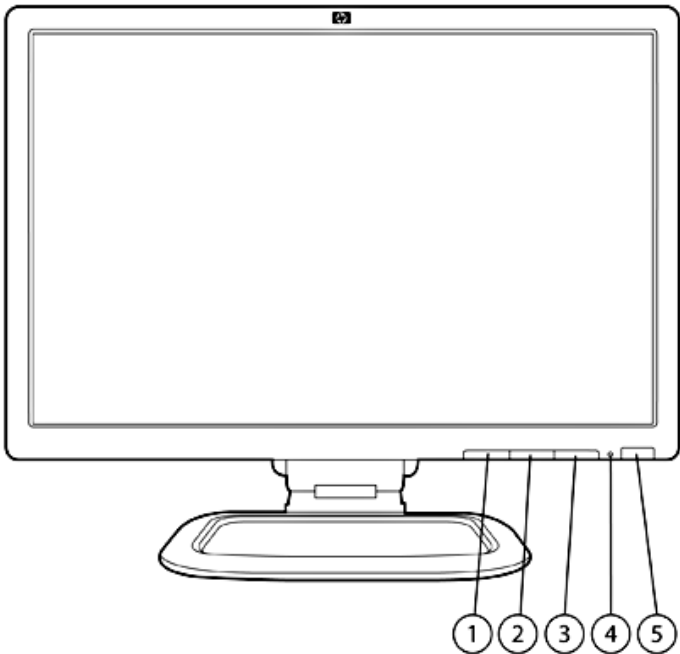


### Technical Specifications

### HP L2245wg 22-inch Widescreen LCD Monitor



- |                  |              |
|------------------|--------------|
| 1. Menu / Select | 4. Power LED |
| 2. "-" / Auto    | 5. Power     |
| 3. "+"           |              |

### Model

FL472AA.

Panel	Type	22-inch Wide-Aspect Active Matrix TFT (thin film transistor)
	Viewable Image Area	22 in (55.9 cm) widescreen; diagonally measured
	Screen Opening (W x H)	18.8 x 11.8 in (47.8 x 30.0 cm)
	Viewing Angle (typical)	Up to 160° horizontal/160° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	300 nits (cd/m <sup>2</sup> )
	Contrast Ratio (typical)*	1000:1
	Response Time (typical)*	5 ms (on/off)
	Pixel Pitch	0.282 mm
	Backlight Lamp Life (to half brightness)	30K hours
	Color Gamut	HP Vivid Color support (92% color gamut)
	*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	

On Screen Display (OSD) Controls	Buttons or Switches	Input select/OSD UP, auto adjust/OSD down, OSD menu select, power
	Languages	English, French, German, Spanish, Italian, Dutch, and Japanese, S. Chinese

### Technical Specifications

		Brazilian Portuguese
	<b>User Controls</b>	Brightness, contrast, positioning, color temperature (6500k, 9300k, custom), individual color control, serial number, display, clock, clock phase, monitor management, factory reset
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	24 to 83 kHz (VGA input); 24 to 83 KHz (DVI input for modes with pixel clock less than 165 MHz)
	<b>Vertical Frequency</b>	50 to 76 Hz (VGA input); 50 to 76 Hz (DVI input for modes with pixel clock less than 165 MHz)
	<b>Native Resolution</b>	1680 x 1050 @ 60 Hz (WSXGA+), 1.76 Million pixels
	<b>Preset VESA Graphic Modes</b> (non-interlaced)	1600 x 1000 @ 60 Hz
		1440 x 900 @ 60 Hz
		1280 x 1024 @ 60 Hz and 75 Hz
		1280 x 960 @ 60 Hz
		1152 x 900 @ 65 Hz
		1024 x 768 @ 60 Hz and 75 Hz
		800 x 600 @ 60 Hz and 75 Hz
		640 x 480 @ 60 Hz and 75 Hz
		720 x 400 @ 70 Hz
		1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz
		1152 x 900 @ 76 Hz
	<b>Maximum Pixel Clock Speed</b>	165 MHz (analog input); 165 MHz (DVI input)
	<b>User Programmable Modes</b>	Yes, 15
	<b>Anti-Glare</b>	Yes
	<b>Anti-Static</b>	Yes
<b>Video/Other Inputs</b>	<b>Default Color Temperature</b>	6500 K
	<b>Plug and Play</b>	Yes
	<b>Self Powered USB 2.0 Hub</b>	One upstream, two downstream ports (cable included)
	<b>Input Signal</b>	VGA and DVI-D connectors; HDCP support
	<b>Input Impedance</b>	75 ohms $\pm$ 10%
	<b>Sync Input</b>	TTL separate synch
	<b>VGA Cable</b>	15 pin D-sub VGA
	<b>VGA Cable Length</b>	5.9 ft (1.8 m)
	<b>Power</b>	<b>Input Power</b> Auto-Sensing, 100 to 240 VAC, 50 $\pm$ 3 Hz to 60 $\pm$ 3 Hz)
		<b>Frequency</b> 47.5 to 63 Hz
		<b>Typical Power Consumption</b> 45 watts (without speaker/with 50% USB)
		<b>Maximum</b> < 65 watts
		<b>Power Saving</b> < 2 watts standby; < 1 watt off
<b>Mechanical</b>	<b>Power Cable Length</b>	6.2 ft (1.9 m)
	<b>Dimensions (H x W x D)</b>	<b>Unpacked w/stand</b> 14.6 to 19.72 x 20.27 x 11.86 in (37.09 to 50.09 x 51.48 x 30.12 cm)
		<b>Unpacked w/o stand (head)</b> 13.59 x 19.72 x 2.36 in

### Technical Specifications

Environmental		only)	(34.52 x 51.48 x 6.0 cm)
		<b>Packaged</b>	16.42 x 24.09 x 8.82 in (41.7 x 61.2 x 22.7 cm)
	<b>Weight</b>	<b>Head Only</b>	10.67 lb (4.84 kg)
		<b>Unpacked</b>	17.02 lb (7.73 kg)
		<b>Packaged</b>	20.42 lb (9.27 kg)
	<b>Tilt Range</b>	-5° to + 35° vertical	
	<b>Swivel Range</b>	-45° to + 45°	
	<b>Height Adjustable</b>	Yes, range 5.12 in (13.0 cm)	
	<b>Pivot Rotation</b>	Yes	
	<b>Base</b>	Attachable, ships attached	
Environmental	<b>Temperature - Operating</b>	41° to 95° F (5° to 35° C)	
	<b>Temperature - Non-operating</b>	-29° to 140° F (-20° to 60° C)	
	<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>	+12,000 ft (3,658 m)	
Environmental Data	<b>Altitude - Non-operating</b>	+40,000 ft (12,192 m)	
	<b>Eco-Label Certifications and Declarations</b>	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"> <li>• ENERGY STAR®</li> <li>• US Federal Energy Management Program (FEMP)</li> <li>• IT ECO declaration</li> <li>• TCO 03</li> <li>• Taiwan Green Mark</li> <li>• CECP</li> <li>• EU Flower (2001/686/EC &amp; 2001/687/EC)</li> <li>• GEEA</li> </ul>	
	<b>Energy Consumption</b> (in accordance with ENERGY STAR® test method)	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz
	<b>Normal Operation</b>	43.05 watts	43.01 watts
	<b>Sleep</b>	0.831 watts	0.849 watts
	<b>Off</b>	0.762 watts	0.792 watts
			42.38 watts
			0.915 watts
			0.834 watts
	<b>Heat Dissipation*</b>	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz
	<b>Normal Operation</b>	146.89 BTU/hr	146.75 BTU/hr
	<b>Sleep</b>	2.84 BTU/hr	2.90 BTU/hr
	<b>Off</b>	2.60 BTU/hr	2.70 BTU/hr
			144.60 BTU/hr
			3.12 BTU/hr
			2.85 BTU/hr

### Technical Specifications

\*NOTE: 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:  
One upstream and two downstream USB ports

#### Ergonomics

The monitor meets the ergonomic requirement of EN-ISO 13406-2 for flat panel displays.

#### 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.

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, TCO, and prEN50279 A/B/C.

This product contains 0% recycled materials (by wt.)

This product is 95% recyclable when properly disposed of at end of life.

#### Packaging Materials

- |                     |          |
|---------------------|----------|
| • Corrugated Carton | 0.765 kg |
| • HDPE Bag          | 0.03 kg  |
| • Polystyrene       | 0.216 kg |

#### 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](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.

### Technical Specifications

	<ul style="list-style-type: none"><li>• Ozone Depleting Substances</li><li>• Polybrominated Biphenyls (PBBs)</li><li>• Polybrominated Biphenyl Ethers (PBBEs)</li><li>• Polybrominated Biphenyl Oxides (PBBOs)</li><li>• Polychlorinated Biphenyl (PCB)</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>
<b>Packaging</b>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"><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>
<b>End-of-life Management and Recycling</b>	<p>Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="http://www.hp.com/recycle">www.hp.com/recycle</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p>
<b>Hewlett-Packard Corporate Environmental Information</b>	<p>For more information about HP's commitment to the environment: Global Citizenship Report <a href="http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html">www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</a> Eco-label certifications <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html">www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html</a> ISO 14001 certificates: <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html">www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html</a></p>
<b>Options</b>	
<b>HP Silver LCD Speaker Bar – Part number: EE418AA</b>	<p>Powered directly by the monitor or the 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 external jack for headphones. Sold separately. For more information, refer to the HP Silver LCD Speaker Bar QuickSpecs.</p>

### Technical Specifications

Other	<b>HP LCD Monitor Quick Release – Part number EM870AA<sup>1</sup></b>	An easy-to-use, VESA-compliant, LCD 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 QuickSpecs document.
	<b>HP Compaq dc 7800 Series Ultra-slim Desktop Integrated Work Center Stand – Part number: GN783AA</b>	Allows mounting of a 17-, 19-, or 22-inch diagonal HP LCD monitor and an HP Compaq dc7800 Ultra-slim Desktop PC on a single stand for the convenience of an "all-in-one" form factor. Sold separately. For more information, refer to this product's QuickSpecs document.
	<b>HP Security Lock—Part number PC766A</b>	Combines aircraft-grade steel and Kevlar fiber to securely lock down your monitor and help prevent theft.
	<b>Accessories Included</b>	VGA cable – connects the graphic card's VGA connector to the monitor's VGA input; USB cable, power cable
	<b>Software</b>	<p>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.</p> <p>HP Display LiteSaver 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.</p> <p>Pivot Pro software from Portrait Displays, Inc. interacts with your PC's native graphics driver to enable seamless portrait screen redraws with a simple mouse-click or keyboard command. Pivot Pro supports 90-degree portrait and landscape views. Language support is available in English, Japanese, French, German, Spanish, Italian, and Traditional and Simplified Chinese.</p>
	<b>User Guide Languages</b>	English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish
	<b>Warranty Languages</b>	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese
	<b>Color</b>	All carbonite
	<b>VESA External Mounting</b>	Yes, standard 4 hole pattern, 100 mm
	<b>Security Lock-Ready</b>	Yes, one slot available
<b>Certification and Compliance</b>	TCO'03, ISO 13406-2 VDT Guidelines Approval, MPR-II Compliant, CISPR Requirements, VCCI Approvals, MIC (Korean) Requirements, CSA, Australian ACA Approval, "GS" Mark, TUV Approvals, CE Marking, FCC Approval, ENERGY STAR® qualified, PC-2001 Certified, Microsoft® Windows® Certification (Microsoft® Windows® 98, Microsoft Windows 2000, Microsoft Windows XP, and Windows Vista® Premium), EPEAT™ Gold	
<b>Compatibility</b>	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.	



<sup>1</sup> 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 an HP Compaq 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.

### *Technical Specifications*

#### **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.<sup>2</sup> 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.

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<sup>2</sup> Service levels and response times for HP Care Packs may vary depending on your geographic location. Restrictions and limitations apply. For details, visit [www.hp.com/go/carepack](http://www.hp.com/go/carepack).