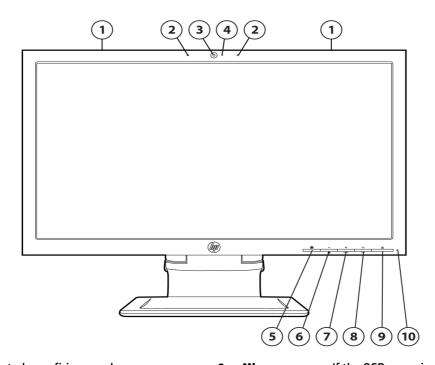
QuickSpecs

Overview



1. Speakers	Integrated rear-firing speakers (Located on back of the monitor).	6.	Minus	If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
2. Dual Microphone Array	Built-in microphones.	7.	Plus/source	If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. If the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, DVI, or DisplayPort).
3. Webcam	Built-in 720p HD Webcam.	8.	OK/auto	If the OSD menu is on, press to select the highlighted menu item. If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image.
4. Webcam LED	LED lights up when webcam is in use.	9.	Power	Turns the monitor on or off.
5. Menu	Opens, selects or exits the OSD menu.	10.	Power LED	Blue = Fully powered. Amber = Sleep mode. Flashing Amber = Sleep Timer mode.

Model

LW490AA



Panel	Туре	TN (Twisted Nematic) LED Backlit LCD
-------	------	--------------------------------------

Viewable Image Area

(diagonal)

54,61 cm (21.5 in.) widescreen; diagonally measured

Screen Opening 47,66 x 26,81 cm, (18.76 x 10.56 in.)

 $(W \times H)$

Aspect Ratio 16:9

Viewing Angle (typical) Up to 170° horizontal/160° vertical (10:1 minimum contrast ratio)

Brightness (typical)* 250 nits (cd/m²)

Contrast Ratio (typical)* 1000:1

Dynamic Contrast Ratio 1,000,000:1

(typical)*

Response Time (typical)*5 ms (on/off)Pixel Pitch0.248 mmBacklight Lamp Life30,000 hours

(to half brightness)

Color Gamut (typical) 68%

Color Support** Can display up to 16.7 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 "Menu", "-", "+", "OK", "Power"

Languages English, French, German Italian, Dutch, Spanish Japanese, Portuguese,

Traditional Chinese, Simplified Chinese

User Controls Brightness, contrast, positioning, color temperature (Warm, Standard, Cool,

custom), clock, clock phase, sharpness, monitor management, volume, video

source control, factory reset

Signal Interface/ Performance Horizontal Frequency 24 to 94 kHz
Vertical Frequency 50 to 76 Hz

Native Resolution1920 x 1080 @ 60 HzPreset VESA Graphic1920 x 1080 @ 60 HzModes (non-interlaced)1680 x 1050 @ 60 Hz

1440 x 900 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 720 @ 60 Hz 1024 x 768 @ 60 Hz 800 x 600 @ 60 Hz 720 x 400 @ 70 Hz

640 x 480 @ 60 Hz 720 x 400 @ 70 Hz

Maximum Pixel Clock

Speed

Text Mode

200 MHz (VGA); 165MHZ (DVI and DisplayPort)



User Programmable

Yes (10)

Modes

Anti-Glare

Yes

Default Color

Warm (6500K)

Temperature

Video/Other Inputs Plug and Play Yes

> **Input Connectors** (1) VGA (analog); (1) DVI-D w/ HDCP; (1) DisplayPort w/ HDCP **Input Impedance** 75 Ohms (VGA), 100 Ohms (DVI-D and DisplayPort), 90 Ohms (USB)

Sync Input TTL separate synch

Video Cable (1) 15-pin D-sub (VGA), (1) DVI-D to DVI-D, and (1) USB cable

1,8 m (5.9 ft.) Video Cable Lengths

Audio (2) 1W/channel built-in speakers (rear firing);

Audio jacks: (1) Audio-in/microphone; (1) Audio-out (headphone/line-out);

(1) audio cable included

Audio Cable Length 1,8 m (5.9 ft.)

Webcam Built-in 720p HD Webcam w/ dual mic and LED

USB (2) USB ports, (1) USB cable included

USB Cable Length 1,8 m (5.9 ft.)

Power **Input Power** 100 - 240 VAC, 50 or 60 Hz

> **Typical Power** 35 W

Consumption

Maximum 42 W

Power Saving < 0.5 W standby; < 0.5 W off

Power Cable Length 1,9 m (6.2 ft.)

Mechanical **Dimensions** (W \times D \times H) Unpacked w/stand 51,80 x 22,73 x 33,33 to 43,87cm.

(20.39 x 8.95 x 13.2 to 17.27 in.)

Unpacked w/o stand

51,8 x 4,75 x 31,5 cm, (head only) (20.39 x 1.87 x 12.40 in.) Packaged 58,1 x 46,8 x 15,4 cm.

(22.87 x 18.43 x 6.06 in.)

Base area (footprint) 22,71 x 24,84 cm.

(8.9 x 9.8 in.)

Weight **Head Only 3,8 kg** (8.4 lb.)

Unpacked **6,1 kg** (13.4 lb.) **Packaged** 8,3 kg (18.4 lb.)

Tilt Range -5° to +30° **Swivel Range** Yes (+/- 360°)

Height Adjustable Yes - 0 to 13,0 cm (0 to 5.1 in.)

Pivot Rotation Yes

Base Detachable, ships attached

Environmental Temperature - Operating 5° to 35° C (41° to 95° F)

Temperature - Non-

-20° to 60° C (-4° to 140° F)

operating

Humidity - Operating 20% to 80% non-condensing

Humidity - Nonoperating 5% to 95%, 38.7° C max wet-bulb

operacing

Altitude - Operating +0 to 5,000 m (16,404 ft) **Altitude - Non-operating 0 to 12,192 m** (0 to 40,000 ft)

White LED Backlights Yes
CCFL Panel No
Arsenic-Free Glass⁴ Yes

BFR/PVC Free Yes (everything except external cables)

Mercury Free 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:

- US ENERGY STAR®
- IT ECO declaration
- EPEAT® Gold3 where HP registers commercial desktop products. See http://www.epeat.net for registration status in your country.

Energy Consumption (in accordance with US ENERGY STAR® test

100VAC, 60Hz	
20.6 W	
0.3 W	
0.3 W	

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation	70 BTU/hr	71 BTU/hr	70 BTU/hr	
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr	
Off	1 BTU/hr	1 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 Gold level, see www.epeat.net³
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 14.6% post-consumer recycled plastic (by wt.)
- This product is 97.8% recycle-able when properly disposed of at end of



life.

Packaging Materials External: Corrugated carton 1263.6 g

Internal: Polyethylene low density 30 g

Polypropylene foam 270 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.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

and Recycling

End-of-life Management 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 (sold separately)

HP LCD Monitor Quick Release-

Part number EM870AA¹

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 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 diagonal HP LCD monitor and an HP Compag 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 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.



QuickSpecs

HP Compaq LA2206xc 21.5-inch Webcam LCD Monitor

Technical Specifications

HP Adjustable DualPremium space-saving dual screen solution provides access to more monitor **Display Stand-**real estate and makes it possible to manage multiple applications

Part Number AW664AA simultaneously. Weight adjustable for dual monitors from 17-24". Rotate

displays into portrait/landscape positions.

Other Accessories Included Webcam security cover, VGA, DVI-D, USB, Audio, and AC Power cables

Software Yes, CyberLink YouCam, HP Display Assistant and HP MyRoom software

included

User Guide Languages English, German, French, Italian, Turkish, Greek, Arabic, Hungarian, Czech,

Russian, Polish, Japanese, Dutch, Danish, Finnish, Spanish, Portuguese,

Norwegian, Swedish, T. Chinese, Slovenian, Bahasa Indonesia

Warranty Languages English, German, French, Italian, Turkish, Greek, Arabic, Hungarian, Czech,

Russian, Polish, Japanese, Dutch, Danish, Finnish, Spanish, Portuguese, Norwegian, Swedish, T. Chinese, S. Chinese, Korean, Slovenian, Bahasa.

Color Black

VESA External Mounting Yes (one set of standard 4-hole pattern, 100 mm).

Security Lock-Ready Yes

Certification and Compliance

Energy Star® 5.0, TCO 5, EPEAT® Gold³, VCCI, KC, KCC, BSMI, TUV, CECP, FCC, CE, BSMI, ISC, C-Tick, GOST, E-

Standby, RoHS, WEEE, ETL, CCC, NOM, CEL Grade 1 (APJ only).

Compatibility Compatible with platfo

Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.

Service and Warranty Protected by HP, including a 3 years parts, 3 years labor, and 3 years onsite service (3/3/3) standard

limited warranty. Certain restrictions and exclusions apply.²

© Copyright 2012 Hewlett-Packard Development Company, L.P.

ENERGY STAR® is a US registered mark of the United States Environmental Protection Agency.

¹ 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.

² 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.

³ EPEAT® Gold where HP registers commercial display products. See www.epeat.net for registration status in your country.

⁴ Arsenic and its compounds were not detected using US EPA Test Methods 3052 & 3052/6010b by ICP or ICP-AES.

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.

