# QuickSpecs

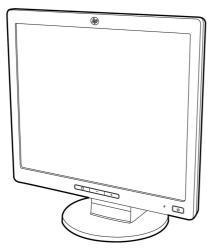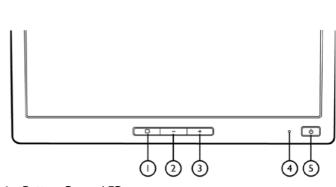## Overview

## HP L1506x 15-inch LED Monitor



1. Button: Menu selection
2. Button: Menu "-" selector button
3. Button: Menu "+" selector button

4. Button: Power LED
5. Button: Power button

## Technical Specifications

| | | |
|---|---|---|
| **Panel** | **Type** | TN (Twisted Nematic) WLED Backlit LCD |
| | **Viewable Image Area** (diagonal) | 15 in (38.1 cm) |
| | **Screen Opening** (W x H) | 12.1 x 9.1 in (307.4 x 231.3 mm) |
| | **Aspect Ratio** | 4:3 |
| | **Viewing Angle** (typical) | 160 degrees horizontal/140 degrees vertical (10:1 minimum contrast ratio) |
| | **Brightness** (typical)* | 400 nits (cd/m$^2$) |
| | **Contrast Ratio** (typical)* | 700:1 |
| | **Dynamic Contrast Ratio** (typical)* | 1,000,000:1 |
| | **Response Time** (typical)* | 16 ms (on/off) |
| | **Pixel Pitch** | 0.297 mm(H) ×0.297 mm(V) |
| | **Backlight Lamp Life** (to half brightness) | 50,000 hours typical |
| | **Color Gamut** (typical) | 60% |
| | *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** | 3-button OSD (menu, minus, plus); power on/off |
| | **Languages** | English, French, German, Italian, Dutch, Spanish, Netherlands, Japanese, Portuguese, Traditional Chinese, Simplified Chinese languages |
| | **User Controls** | Brightness<br>Contrast<br>Color<br>Image Control<br>OSD Control<br>Management<br>Language<br>Information<br>Factory Reset<br>Exit |
| **Signal Interface/ Performance** | **Horizontal Frequency** | 30 to 63 kHz |
| | **Vertical Frequency** | 50 to 76 Hz |
| | **Native Resolution** | 1024 x 768 @ 60 Hz (recommended) |
| | **Preset VESA Graphic Modes** (non-interlaced) | 1024 x 768 @ 60 Hz, 70 Hz, and 75 Hz |
| | | 832 x 624 @ 75Hz, 800 x 600 @ 60 Hz, 72 Hz, and 75 Hz |
| | | 720 x 400 @ 70 Hz |
| | | 640 x 480 @ 60 Hz, 72 Hz, and 75 Hz |
| | **Text Mode** | 720 x 400 @ 70 Hz |
| | **Maximum Pixel Clock Speed** | 80 MHz |
| | **User Programmable Modes** | Yes (20) |

## Technical Specifications

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|---|---|---|---|
| | **Anti-Glare** | Yes | |
| | **Default Color Temperature** | Warm (6500K) | |
| **Video/Other Inputs** | **Plug and Play** | Yes | |
| | **Input Connectors** | 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 | |
| | **Video Cable Lengths** | 70.8 in (1.8 m) | |
| **Power** | **Input Power** | 100 - 240 VAC | |
| | **Typical Power Consumption** | < 10 W | |
| | **Maximum** | < 15.0 W | |
| | **Power Saving** | < 1.0 W | |
| | **Power Cable Length** | 74.8 in (1.9 m); detachable | |
| **Mechanical** | **Dimensions** (W x D x H) | **Unpacked w/stand** | 13.9 x 13.4 x 7.9 in (35.5 x 34.0 x 20.3 cm) |
| | | **Unpacked w/o stand** (head only) | 11.4 x 13.4 x 2.4 in (29.0 x 34.0 x 6.0 cm) |
| | | **Packaged** | 15.6 x 15.6 x 5.9 in (39.5 x 39.5 x 15.0 cm) |
| | **Weight** | **Unpacked** | 6.83 lb (3.10 kg) |
| | | **Packaged** | 9.59 lb (4.35 kg) |
| | **Tilt Range** | -5 to +30 degrees vertical tilt | |
| | **Swivel Range** | None | |
| | **Height Adjustable** | No | |
| | **Pivot Rotation** | No | |
| | **Base** | Detachable | |
| **Environmental** | **Temperature - Operating** | 0° to 50° C (32° to 122° F) | |
| | **Temperature - Non-operating** | -20° to 60° C (-4° to 140° F) | |
| | **Humidity - Operating** | 20% to 80% non-condensing | |
| | **Humidity - Non-operating** | 5% to 90% | |
| | **Altitude - Operating** | 0 to 16,400 ft (0 to 5,000 m) | |
| | **Altitude - Non-operating** | 0 to 40,000 ft (0 to 12,100 m) | |
| | **White LED Backlights** | Yes | |
| | **CCFL Panel** | No | |
| | **Arsenic-Free Display Glass** | Yes | |
| | **Low Halogen** | Plastics and Finishes or Paint | |
| | **Mercury-Free Display Backlighting** | Yes | |

## Technical Specifications

| 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: | | |
|---|---|---|---|---|
| | **Energy Consumption** | AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz | AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz | AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz |
| | Normal Operation | 5.6 W | 5.7 W | 5.9 W |
| | Sleep | 0.42 W | 0.44 W | 0.41 W |
| | Off | 0.31 W | 0.29 W | 0.31 W |
| | **Heat Dissipation*** | 100 VAC, 50 Hz | 115 VAC, 60 Hz | 230 VAC, 50 Hz |
| | Normal Operation | 19.15 BTU/hr | 19.49 BTU/hr | 20.18 BTU/hr |
| | Sleep | 1.44 BTU/hr | 1.47 BTU/hr | 1.77 BTU/hr |
| | Off | 1.30 BTU/hr | 1.33 BTU/hr | 1.57 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.

Plastics parts weighing over 25 grams used in the product are marked prEN50279 A/B/C.

This product contains 20.7% recycled materials (by wt.)

This product is 99.0% recyclable when properly disposed of at end of life.

Packaging Materials

- Corrugated Carton - 0.850 kg
- Bag LDPE - 0.025 kg

**Packaging Materials**

| **External:** | Corrugated carton | 850g |
|---|---|---|
| **Internal:** | Polyethylene low density | 118g |

**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

## Technical Specifications

- 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 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.

## Technical Specifications

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| | **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 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. |
| | **HP Adjustable Dual Display Stand Part Number AW664AA** | Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions. |
| | **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. |
| | **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. |

\* 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.

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| | **HP Integrated Work Center Stand Part number GN783AA** | Allows mounting of a 17 - 23 inch diagonal HP LCD monitor and an HP Compaq dc8000 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. |
| | **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 USB Mini Magnetic Stripe Reader with Brackets Part Number FK186AA** | Reads up to three tracks of information with a single swipe of a magnetic stripe card in any direction. The beeper and LED assist store associates by signaling a successful read. |
| **Other** | **Accessories Included** | Detachable AC Power cable, detachable VGA cable, detachable base, documentation kit, and user CD |
| | **Software** | HP Display LiteSaver feature allows you to schedule Sleep mode at preset |

## Technical Specifications

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.

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| **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** | HP Black | |
| **VESA External Mounting** | Yes (Standard 4 hole pattern, 100 mm) | |
| **Security Lock-Ready** | Yes | |

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|---|---|
| **Certification and Compliance** | CB, pixel defect guidelines, CISPR, VCCI, ETL (USA/Canada), TUV and GS Mark (German ergonomic), BSMI (Taiwan), CCC (China), KCC/KC (South Korea), NOM (Mexico), Eastern European approvals, CE Marking, FCC approval, Microsoft® Windows® certified (Microsoft® Windows® 2000, Microsoft Windows XP, UL listed, GOST (Russia), SASO (Saudi Arabia) |
| **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. 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. |

*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