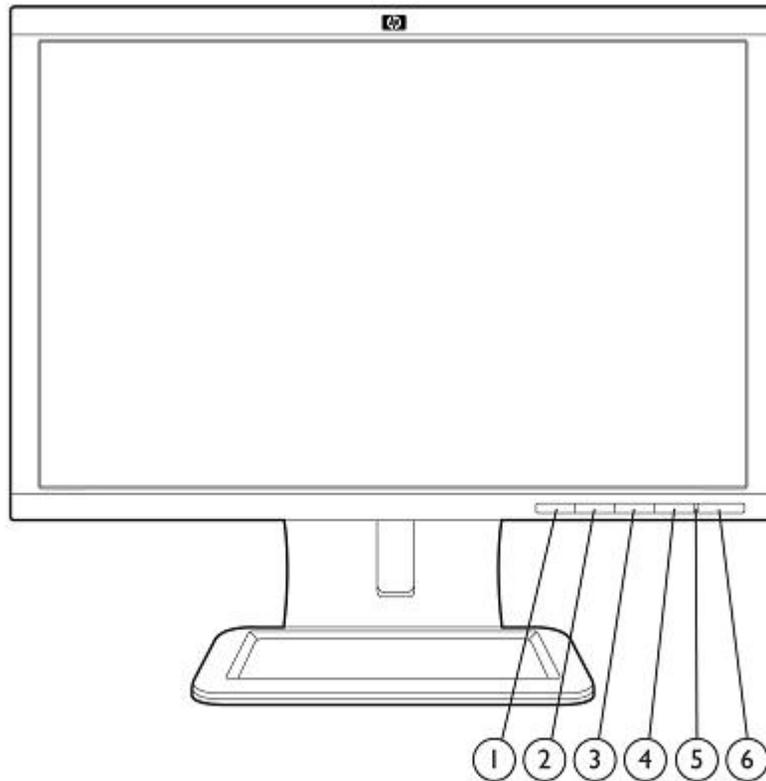


Overview



1. **Menu/select:** Opens, selects or exits the OSD menu.
2. **"-":** If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
3. **"+"/source:** Select input source. If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.
4. **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.
5. **Power LED:** fully powered = green; sleep mode = amber; sleep timer mode = flashing amber.
6. **Power:** Turns the monitor on or off.

Part Number

Model: NM274AA#ABA

Technical Specifications

| | | |
|---|--|--|
| 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) |
| | Panel Type | TN |
| | Aspect Ratio | 16:10 |
| | Viewing Angle (typical) | Up to 160° horizontal/160° vertical (10:1 minimum contrast ratio) |
| | Brightness (typical)* | 250 nits (cd/m ²) |
| | Contrast Ratio (typical)* | 1000:1 |
| | Dynamic Contrast Ratio (typical)* | 3000:1 |
| | Response Rate (typical)* | 5 ms (on/off) |
| | Pixel Pitch | 0.282 mm |
| | Backlight Lamp Life (to half brightness) | 50K hours |
| | Color Gamut | 72% color gamut (NTSC,TYP) |
| <i>*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.</i> | | |
| On Screen Display (OSD) Controls | Buttons or Switches | OSD menu, OSD up, Source select/OSD down, Auto adjust/OK, Power. (from left to right) |
| | Languages | English, French, German, Spanish, Italian, Dutch, and Japanese, S. Chinese, T.Chinese, Brazilian Portuguese |
| | User Controls | Brightness, contrast, positioning, color temperature (6500k, 9300k, custom), individual color control, serial number, display, clock, clock phase, monitor management, factory reset |
| Signal Interface/ Performance | Horizontal Frequency | 24 to 83 kHz |
| | Vertical Frequency | 50 to 76 Hz |
| | Native Resolution | 1680 x 1050 @ 60 Hz (WSXGA+), 1.76 Million pixels |
| | Preset VESA Graphic Modes (non-interlaced) | 1680 x 1050 @ 60 Hz |
| | | 1600 x 1200 @ 60 Hz |
| | | 1600 x 1000 @ 60 Hz |
| | | 1440 x 900 @ 60 Hz |
| | | 1280 x 1024 @ 60 Hz |
| | | 1280 x 960 @ 60 Hz |
| | | 1024 x 768 @ 60 Hz |
| | | 800 x 600 @ 60 Hz |
| | | 640 x 480 @ 60 Hz |
| | Text Mode 720 x 400 @ 70 Hz | |
| | Mac Mode Not supported | |
| | Sun Mode Not supported | |
| | Maximum Pixel Clock Speed 165 MHz (analog input); 165 MHz (DVI input), 230 Mhz (DisplayPort) | |

Technical Specifications

| | | | |
|--------------------|-----------------------------|--|--|
| | User Programmable Modes | Yes, 20 | |
| | Anti-Glare | Yes | |
| | Anti-Static | Yes | |
| | Default Color Temperature | 6500 K | |
| Video/Other Inputs | Plug and Play | Yes | |
| | Self Powered USB 2.0 Hub | One upstream, two downstream ports (cable included) | |
| | Input Connectors | VGA, DVI-D, and DisplayPort connectors; HDCP support | |
| | Input Impedance | 75 ohms \pm 10% | |
| | Sync Input | TTL separate synch | |
| | Video Cable | One DVI-D to DVI-D and one 15-pin D-sub (VGA) | |
| | Video Cable Lengths | VGA 5.9 ft (1.8 m), DVI-D 5.9 ft (1.8 m) | |
| Power | Input Power | Auto-Sensing, (100 to 240 VAC) \pm 10% | |
| | Frequency | 47 to 63 Hz | |
| | Typical Power Consumption | 25 watts (without speaker/with 25% USB) | |
| | Maximum | 33 watts | |
| | Power Saving | < 1 watts standby; < 0.5 watt off | |
| | Power Cable Length | 6.2 ft (1.9 m) | |
| Mechanical | Dimensions (H x W x D) | Unpacked w/stand | 14.7 to 17.8 x 20.13 x 10.04 in (37.35 to 45.22 x 51.12 x 25.49 cm) |
| | | Unpacked w/o stand (head only) | 13.13 x 20.13 x 2.44 in (33.35 x 51.12 x 6.2 cm) |
| | | Packaged | 23.27 x 19.37 x 9.09 in (59.1 x 49.2 x 23.1 cm) |
| | Weight | Head Only | 9.37 lb (4.25 kg) |
| | | Unpacked | 15.04 lb (6.82 kg) |
| | | Packaged | 24.92 lb (11.3 kg) |
| | Tilt Range | -5° to + 30° vertical | |
| | Swivel Range | -170° to + 170° | |
| | Height Adjustable | Yes, up to 4.72 in (12.0 cm) | |
| | Pivot Rotation | Yes | |
| | Base | Attachable, ships attached | |
| Environmental | Temperature – Operating | 41° to 95° F (5° to 35° C) | |
| | Temperature – Non-operating | -29° to 140° F (-20° to 60° C) | |
| | Humidity – Operating | 20% to 80% non-condensing | |
| | Humidity – Non-operating | 5% to 95%, 38.7° C max wet-bulb | |
| | Altitude – Operating | 0 to 16,404 ft (0 to 5, 000 m) | |
| | Altitude – Non-operating | 0 to 40,000 ft (0 to 12,192 m) | |

Technical Specifications

Environmental Data

Eco-Label Certifications and 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 STAR®
- IT ECO declaration
- EPEAT® Gold

Energy Consumption(in accordance with ENERGY STAR® test method)

| | 115VAC, 60 Hz | 230VAC, 50 Hz | 100VAC, 60 Hz |
|------------------|---------------|---------------|---------------|
| Normal Operation | 21.13 W | 21.39 W | 21.34 W |
| Sleep | 0.56 W | 0.52 W | 0.56 W |
| Off | 0.45 W | 0.43 W | 0.48 W |

Heat Dissipation*

| | 115VAC, 60 Hz | 230VAC, 50 Hz | 100VAC, 60 Hz |
|------------------|---------------|---------------|---------------|
| Normal Operation | 72 BTU/hr | 73 BTU/hr | 73 BTU/hr |
| Sleep | 2 BTU/hr | 2 BTU/hr | 2 BTU/hr |
| Off | 2 BTU/hr | 1 BTU/hr | 2 BTU/hr |

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

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.

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 TCO and prEN50279 A/B/C.

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

This product is 93,4% recyclable when properly disposed of at end of life.

External:

- Paper / Cardboard 3062 g
- Polyethylene high density 24 g
- This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for

Material Usage



Technical Specifications

the Environment at :

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 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: www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment: Global Citizenship Report www.hp.com/hpinfo/globalcitizenship/gcreport/index.html



Technical Specifications

Eco-label certifications

www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html

ISO 14001 certificates:

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 a flat panel monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.

**HP Integrated Work
Center Stand—Part
number GN783AA**

Allows mounting of a 17-, 19-, or 22-inch diagonal HP LCD 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 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.

**DisplayPort Cable
Kit—Part number
VN567AA**

Allows digital connectivity to the monitors DisplayPort video input and the PC's DisplayPort video connector.

* 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.

Other

Accessories Included

VGA cable, DVI-D to DVI-D cable, USB cable, power cable, user CD-ROM

Software

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.

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.

Technical Specifications

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.

| | |
|-------------------------------|---|
| User Guide Languages | English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish |
| Warranty Languages | English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese |
| Bezel Color | Brushed Aluminum and Black |
| VESA External Mounting | Yes (one set of standard 4-hole pattern, 100 mm). Use of the top VESA 4-hole pattern will allow the user to set monitor head lower to the desk surface. |
| Security Lock-Ready | Yes, one slot available |

Certification and Compliance

TCO5 (Low Emissions), ISO 9241-307, CISPR Requirements, VCCI Approvals, KC and KCC (Korean) Requirements, CSA 60950-1, UL 60950-1, EN55022 Class B, CNS 13438 Class B, IEC 60950-1, China Energy Label (CEL), China MEPS, Korea MEPS (pending, Energy Boy), SmartWay - NA only - Energy logistics, EUP Lot 6 Tier 1 AS/NZS 3548 Class B Approval, "GS" Mark, TUV Approvals, GEEA, CE Marking, FCC Part 15 class B Approval, ENERGY STAR® qualified, EN55024 Class B, EN60950 - 1, CUL, CCIB, CCEE, IT ECO (EDS), EPEAT® Gold (select regions)

Compatibility

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

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.* 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.

* HP Care Pack Services extend service contracts beyond the standard warranties. 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: www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: www.hp.com/hps/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.

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