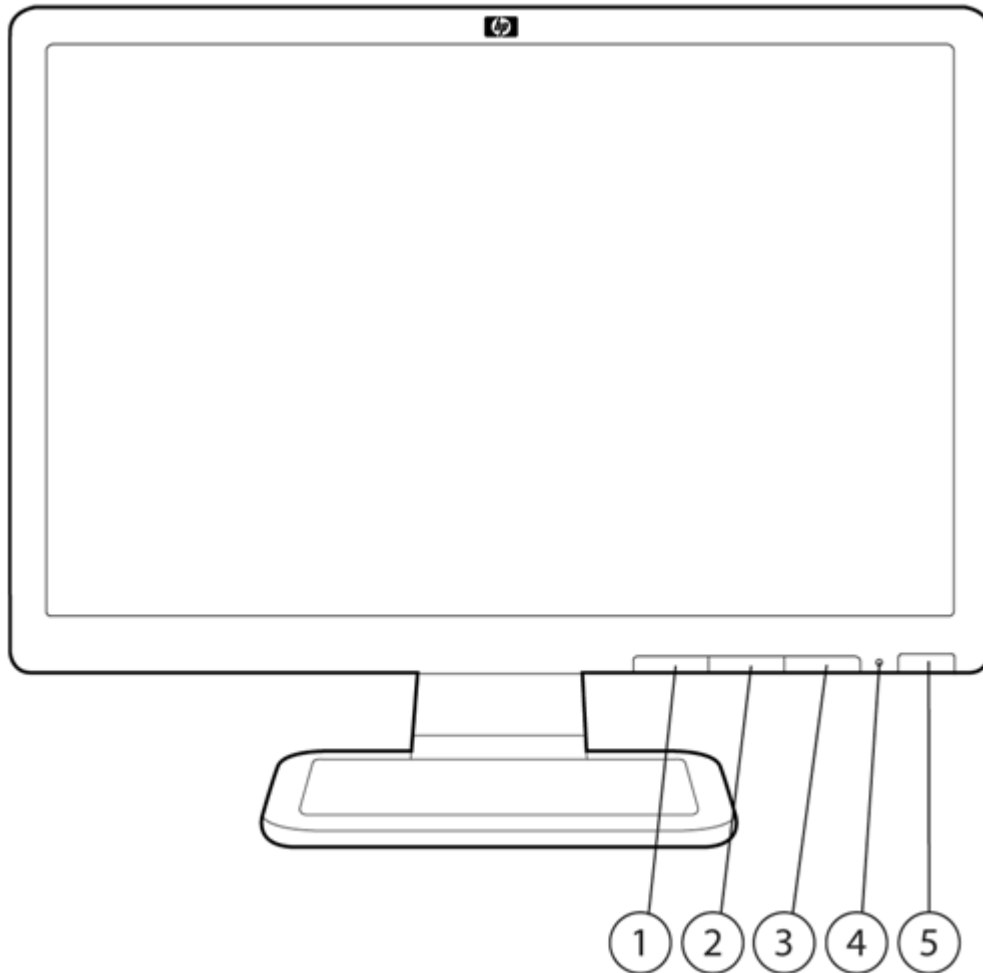


## Overview



1. **Menu/select:** Opens, selects or exits the OSD menu.
2. **"/Auto:** Navigates backward through the OSD menu and decreases adjustment levels; when the OSD menu is inactive, activates the auto adjustment feature to optimize the screen image.
3. **"/:** Navigates forward through the OSD menu and increases adjustment levels; when the OSD menu is inactive, chooses the video input signal input, VGA or DVI.
4. **Power LED:** fully powered = green; sleep mode = amber; sleep timer mode = flashing amber.
5. **Power:** Turns the monitor on or off.

Model  
NP446A



### Technical Specifications

Panel	Type	19-in (48.14-cm) Wide-Aspect Active Matrix TFT (thin film transistor)
	Viewable Image Area (diagonal)	19 in (48.14 cm) wide (WXGA+); diagonally measured
	Screen Opening (W x H)	16.1 x 10.0 in (40.82 x 25.52 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 <sup>2</sup> )
	Contrast Ratio (typical)*	1000:1
	Response Time (typical)*	=5 ms (on/off)
	Pixel Pitch	.2835 mm
	Backlight Lamp Life (to half brightness)	50 K hours
	Color Gamut	72%
	*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	Auto adjust/OSD down, OSD UP, OSD menu select, power
	Languages	English, French, German, Spanish, Italian, Dutch, and Japanese, S. Chinese, Portuguese
	User Controls	Brightness, contrast, positioning, color temperature (6500k, 9300k, custom), individual color control, serial number, display, clock, clock phase, monitor management, factory reset, zoom
Signal Interface/Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	1440 x 900 @ 60 Hz
	Preset VESA Graphic Modes (non-interlaced)	1280 x 1024 @ 60 Hz and 75 Hz
		1280 x 960 @ 60 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
	CVT Mode	1152 x 720 @ 60 Hz
		1280 x 768 @ 60 Hz
	Text Mode	720 x 400 @ 70 Hz
	Mac Mode	1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz
	Sun Mode	1152 x 900 @ 66 Hz
	Maximum Pixel Clock Speed	140 MHz (analog input)
	User Programmable Modes	Yes, 15
	Anti-Glare	Yes
	Anti-Static	No

### Technical Specifications

Video/Other Inputs	Default Color Temperature	6500 K	
	Plug and Play	Yes	
	Self Powered USB 2.0 Hub	No	
	Input Signal	VGA, DVI-D (cables included)	
	Input Impedance	75 ohms $\pm$ 10%	
	Sync Input	TTL separate synch or Composite Sync	
	VGA Cable	15 pin D-sub VGA	
Audio	VGA Cable Length	5.9 ft (1.8 m)	
	Speakers	Integrated rear firing	
	Output power	2 watt per channel	
	Controls	Volume, OSD selectable	
	Audio cable	Included, length: 5.9 ft (1.8 m)	
Power	Input Power	Auto-Sensing, 90 to 265 VAC	
	Frequency	45 to 63 Hz	
	Typical Power Consumption	22.8 watts	
	Maximum	29.0 watts	
	Power Saving	2 watts standby; 1 watt off	
Mechanical	Power Cable Length	6.2 ft (1.9 m)	
	Dimensions (H x W x D)	Unpacked w/stand	14.6 x 17.6 x 8.1 in (37.0 x 44.6 x 20.6 cm)
		Unpacked w/o stand (head only)	11.9 x 17.6 x 2.3 in (30.1 x 44.6 x 5.9 cm)
		Packaged	17.6 x 20.2 x 5.2 in (44.5 x 51.3 x 13.2 cm)
	Weight	Unpacked	9.5 lb (4.3 kg)
		Head only	8.8 lb (4.0 kg)
		Packaged	12.6 lb (5.7 kg)
	Tilt Range	-5° to + 25° vertical	
	Swivel Range	No	
	Height Adjustable	No	
	Pivot Rotation	No	
Environmental	Base	Detachable, ships attached	
	Temperature - Operating	-29° to 140° F (-34° to 60° C)	
	Temperature - Non-operating	-4° 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	+12,000 ft (3,658 m)	
Options	Altitude - Non-operating	+40,000 ft (12,192 m)	
	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. For more information, refer to this product's	

### Technical Specifications

#### HP Integrated Work Center Stand—Part number: GN783AA

QuickSpecs document.

Allows mounting of select 17- to 22-inch diagonal HP LCD monitors and an HP Compaq dc7900 Ultra-slim Desktop PC or HP 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.

\* 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.

### Other

#### Accessories Included

VGA cable - connects the graphic card's VGA connector to the monitor's VGA input, DVI cable - connects the graphic card's DVI-D connector to the monitor's DVI input

#### Software

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.

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.

#### 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

#### Color

Black

#### VESA External Mounting

Yes, standard 4 hole pattern, 100 mm

#### Kensington Lock-Ready

Yes

### Certification and Compliance

TCO 5.0 Displays, 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™ Silver

### 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.



### Technical Specifications

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](http://www.hp.com/go/lookuptool). Additional HP Care Pack Services information by product is available at: [www.hp.com/hps/carepack](http://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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