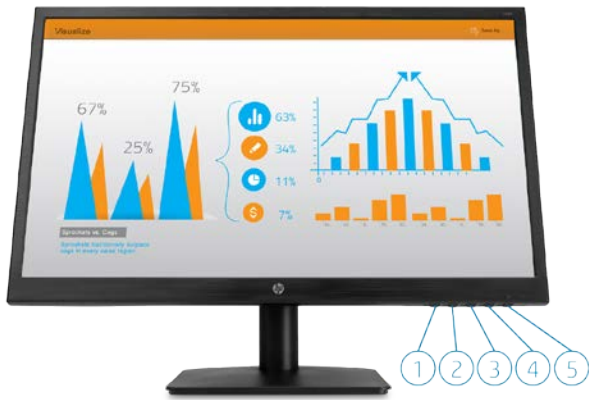


Technical Specifications

HP N223 21.5-inch Monitor



- 1. Menu
- 2. Minus("-")
- 3. Plus("+")
- 4. OK
- 5. Power button



- 6. Security lock slot
- 7. HDMI
- 8. VGA
- 9. Power connector

Technical Specifications

Models: 3ML60AA

Panel	Type	21.5-inch, TN
	Viewable Image Area (diagonal)	54,61 cm (21.5-inches) widescreen; diagonally measured
	Panel Active Area (W x H)	47,7 x 26,8 cm (18.76 x 10.55 in)
	Resolution	1920 x 1080 @ 60 Hz
	Aspect Ratio	16:9
	Viewing Angle	Up to 90° horizontal / 65° vertical typical
	Brightness*	250 cd/m ²
	Contrast Ratio*	450:1 Static (minimum); 600:1 Static (Typical); 10,000,000:1 Dynamic (DCR)
	Response Times*	5 ms
	Pixel Pitch	.248 x .248 mm
	Pixels Per Inch (PPI)	102
	Pixel Clock	170 MHz
	Backlight Lamp Life (to half brightness)	30,000 hours minimum
	Panel Bit Depth	8 bit (6-Bit + Hi FRC)
	Color Gamut (Typical)	72% (NTSC)
	Default Color Temperature	6500K

* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

User Controls	Buttons or Switches	Menu, Minus ("-"), Plus ("+") /Input Control, Power
	User-Assignable Function Buttons	Yes, 3 (6 options)
	On Screen Display (OSD) User Controls	Brightness, Contrast, Color Control, Input Control, Image Control, Power Control, Menu Control, Management, Language, Information, Exit
	Languages	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
Signal Interface/ Performance	Horizontal Frequency	30-80 kHz
	Vertical Frequency	50-60 Hz
	Native Resolution	1920 x 1080 @ 60 Hz
	Preset Graphic Modes (non-interlaced)	640 x 480 @ 60Hz
		720 x 400 @ 70Hz
	800 x 600 @ 60Hz	
	1024 x 768 @ 60Hz	

Technical Specifications

1280 x 720 @ 60Hz
 1280 x 800 @ 60Hz
 1280 x 1024 @ 60Hz
 1440 x 900 @ 60 Hz
 1600 x 900 @ 60Hz
 1680 x 1050 @ 60 Hz
 1920 x 1080 @ 60Hz

	Anti-Glare	Yes	
Video/Other Inputs	Plug and Play	Yes	
	Input Connectors	(1) VGA, (1) HDMI (HDCP support)	
	USB	N/A	
Multimedia	Video Cables Included	(1) VGA cable 1,5 m (4.9 ft)	
	Speakers	N/A	
Power	Power Supply	Internal	
	Input Power	100 - 240 VAC 50/60 Hz	
	Maximum Power	20 W	
	Typical Power	18 W	
	Sleep Power	0.5 W	
	Power Cable Length	1,9 m (6.23 ft)	
Mechanical	Dimensions (W x D x H)	Unpacked with stand	50.40 X 17.04 X 38.3 cm (19.84 X 6.71 X 15.08 in)
		Unpacked without stand (head only)	50.40 X 4.90 X 31.05 cm (19.84 X 1.93 X 12.22 in)
		Packaged	56.30 X 11.90 X 44.70 cm (22.16 X 4.69 X 17.60 in)
	Weight	Head Only	2.46 kg (5.42 lb)
		Unpacked with stand	2.60 kg (5.73 lb)
		Packaged	3.70 kg (8.16 lb)
Ergonomic Features Not available on head only model	Detachable Stand	Yes, ships detached	
	Height Adjustment	N/A	
	Tilt Range	-5° to + 15° vertical	
	Swivel	N/A	
Environmental	Pivot	N/A	
	Temperature - Operating	5° to 35° C (41° to 95° F)	
	Temperature - Non-operating	-20° to 60° C (-4° to 140° F)	
	Humidity - Operating	20% to 80% non-condensing	
	Humidity - Non-operating	5% to 95%	

Technical Specifications

	Altitude - Operating	0 to 5000 m (0 to 16,400 ft)
	Altitude - Non-operating	0 to 12,192 m (0 to 40,000 ft)
	White LED Backlights	Yes
	CCFL Panel	No
	Arsenic-Free Display Glass	Yes
	Low Halogen¹	N/A
	Mercury-Free Display Backlighting	Yes
Options	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.
What's in the box?	Monitor and Accessories	HP N223 21.5-inch Monitor AC power cord 1,9 m (6.23 ft) VGA cable 1,5 m (4.9 ft)
	Documentation	CD (includes user guide, warranty, driver)
	Software	N/A
Other	User Guide Languages	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	Warranty Languages	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish
	Color	Black
	VESA Mounting	100 mm VESA mount
	Security Lock-Ready	Yes
	Country of Origin	China
Certification and Compliance		CB/TUV low blue light/Energy Star7.0 compliant/CcomCC/CEL/CECP/SEPA/WEEE
Compatibility		Recommended for use with HP products.
Service and Warranty		1/1/1. Protected by HP, including a 1 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. ²

Technical Specifications

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1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
2. HP Care Packs are optional. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See www.hp.com/go/cpc for details.

