

### Overview

#### 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

# QuickSpecs

## HP N223 21.5-inch Monitor

### Technical Specifications

Models: 3ML60A / 3WP71A

<b>Panel</b>	<b>Type</b>	21.5-inch, TN
	<b>Viewable Image Area (diagonal)</b>	54,61 cm (21.5-inches) widescreen; diagonally measured
	<b>Panel Active Area (W × H)</b>	47,7 x 26,8 cm (18.76 x 10.55 in)
	<b>Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Aspect Ratio</b>	16:9
	<b>Viewing Angle</b>	Up to 90° horizontal / 65° vertical typical
	<b>Brightness*</b>	250 cd/m <sup>2</sup>
	<b>Contrast Ratio*</b>	450:1 Static (minimum); 600:1 Static (Typical); 10,000,000:1 Dynamic (DCR)
	<b>Response Times*</b>	5 ms
	<b>Pixel Pitch</b>	.248 x .248 mm
	<b>Pixels Per Inch (PPI)</b>	102
	<b>Pixel Clock</b>	170 MHz
	<b>Backlight LampLife (to half brightness)</b>	30,000 hours minimum
	<b>Panel Bit Depth</b>	8 bit (6-Bit + Hi FRC)
	<b>Color Gamut(Typical)</b>	72% (NTSC)
	<b>Default Color Temperature</b>	6500K
	* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
<b>User Controls</b>	<b>Buttons or Switches</b>	Menu, Minus ("-"), Plus ("+") /Input Control, Power
	<b>User-Assignable Function Buttons</b>	Yes, 3 (6 options)
	<b>On Screen Display (OSD) User Controls</b>	Brightness, Contrast, Color Control, Input Control, Image Control, Power Control, Menu Control, Management, Language, Information, Exit
	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	30-80 kHz
	<b>Vertical Frequency</b>	50-60 Hz
	<b>Native Resolution</b>	1920 x 1080 @ 60 Hz
	<b>Preset Graphic Modes (non-interlaced)</b>	640 x 480 @ 60Hz 720 x 400 @ 70Hz 800 x 600 @ 60Hz 1024 x 768 @ 60Hz 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
<b>Video/Other Inputs</b>	<b>Anti-Glare</b>	Yes
	<b>Plug and Play</b>	Yes
	<b>Input Connectors</b>	(1) VGA, (1) HDMI (HDCP support)
	<b>Video Cables Included</b>	(1) VGA cable 1,5 m (4.9 ft)



# QuickSpecs

## HP N223 21.5-inch Monitor

### Technical Specifications

<b>Power</b>	<b>Power Supply</b>	Internal
	<b>Input Power</b>	100 - 240 VAC 50/60 Hz
	<b>Maximum Power</b>	20 W
	<b>Typical Power</b>	18 W
	<b>Sleep Power</b>	0.5 W
	<b>Power Cable Length</b>	1,9 m (6.23 ft)
<b>Dimensions (W × D × H)</b>	<b>Unpacked with stand</b>	50.40 X 20.12 X 38.3 cm (19.84 X 7.92 X 15.08 in)
	<b>Unpacked without stand (head only)</b>	50.40 X 4.90 X 31.05 cm (19.84 X 1.93 X 12.22 in)
	<b>Packaged</b>	56.30 X 11.90 X 44.70 cm (22.16 X 4.69 X 17.60 in)
<b>Weight</b>	<b>Head Only</b>	2.46 kg (5.42 lb)
	<b>Unpacked with stand</b>	2.60 kg (5.73 lb)
	<b>Packaged</b>	3.70 kg (8.16 lb)
<b>Ergonomic Features</b>	<b>Detachable Stand</b>	Yes, ships detached
<b>Not available on head only model</b>	<b>Height Adjustment</b>	N/A
	<b>Tilt Range</b>	-5° to + 15° vertical
<b>Environmental</b>	<b>Temperature - Operating</b>	5° to 35° C (41° to 95° F)
	<b>Temperature - Non-operating</b>	-20° to 60° C (-4° to 140° F)
	<b>Humidity - Operating</b>	20% to 80% non-condensing
	<b>Humidity - Non-operating</b>	5% to 95%
	<b>Altitude - Operating</b>	0 to 5000 m (0 to 16,400 ft)
	<b>Altitude - Non-operating</b>	0 to 12,192 m (0 to 40,000 ft)
	<b>White LED Backlights</b>	Yes
	<b>Arsenic-Free Display Glass</b>	Yes
	<b>Mercury-Free Display Backlighting</b>	Yes
<b>Options</b>		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.
	<b>HP Business PC Security Lock Kit — Part number PV606AA</b>	
<b>What's in the box?</b>	<b>Monitor and Accessories</b>	HP N223 21.5-inch Monitor AC power cord 1,9 m (6.23 ft) VGA cable 1,5 m (4.9 ft)
<b>Other</b>	<b>User Guide Languages</b>	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.
	<b>Warranty Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian,



### Technical Specifications

<b>Color</b>	Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish
<b>VESA Mounting</b>	Black
<b>Security Lock-Ready</b>	100 mm VESA mount
<b>Country of Origin</b>	Yes
	China

### Certification and Compliance

EPEAT® Silver (select regions)<sup>3</sup> CE, CB, KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/EAC/UL/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/Energy Star/VCCI/FCC/BSMI/Vietnam MEPS/Australian-New Zealand MEPS/WEEE

### Compatibility Service and Warranty

Recommended for use with HP products.  
Protected by HP, including a 3 year standard limited warranty (may vary by region). Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties.<sup>3</sup>

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 <http://www.hp.com/go/cpc> for details.
3. EPEAT® Silver where HP registers commercial display products. See <http://www.epeat.net> for registration status in your country.

### *Technical Specifications*

© Copyright 2018 HP Development Company, L.P. All rights reserved.

The information contained herein is subject to change without notice. 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.

Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries.

## Summary of Changes

<b>Change Log</b>	
3/27/18	Updated unpacked with stand” dimensions
3/27/18	Updated certification and compliance” listing
3/27/18	Updated Warranty to 3/3/0
3/30/ 18	Updated Warranty and box section
7/16/18	Updated Certifications and compliance