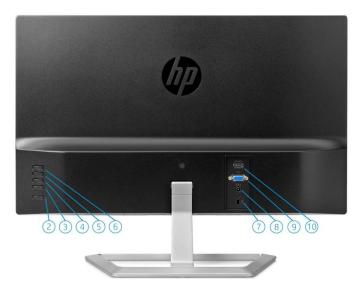
Technical Specifications

HP N220 21.5-inch Monitor



- 1. Power indicator LED
- 2. Power Button
- **3.** OK
- **4.** Minus ("-")
- **5.** Plus ("+")



- 6. OSD Menu
- 7. Security lock slot
- 8. Power In
- **9.** VGA
- **10.** HDMI

Technical Specifications

Models: Y6P09A / 3ML20A

Panel Type 21.5-inch, IPS

Viewable Image Area

(diagonal)

54,61 cm (21.5-inches) widescreen; diagonally measured

Panel Active Area

(W × H)

47,60 x 26,77 cm (18.74 x 10.51 in)

Resolution 1920 x 1080 @ 60 Hz*

*The video card of the connected PC must be capable of supporting 1920 x 1080

at 60 Hz.

Aspect Ratio 16:9

Viewing Angle Up to 178° horizontal / 178° vertical typical

Brightness* 250 cd/m²

Contrast Ratio*

(Typical)

1000:1 Static; 5,000,000:1 Dynamic (DCR)

Response Times* 5 ms typical gray to gray

Pixel Pitch .248 x .248 mm

Pixels Per Inch (PPI) 102.46

Pixel Clock 170 MHz

Default Color 6500K

Temperature

Decklicht I ama I

Backlight Lamp Life (to half brightness)

30,000 hours minimum

Color Support Up to 16.7 million colors

Color Gamut (Typical) 72% sRGB

User Controls Buttons or SwitchesMenu, Minus ("-"), Plus ("+"), OK, Power

Languages 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese,

Japanese, T-Chinese and S-Chinese)

On Screen Display (OSD) User Controls

Brightness, Contrast, Color Control, Input Control, Image Control, Power

Control, Menu Control, Management, Language, Information

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 @ 70 Hz

800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz

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

Technical Specifications

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

Anti-Glare Yes

Video/Other Inputs **Plug and Play** Yes

> **Input Connectors** (1) VGA, (1) HDMI (with HDCP)

USB N/A

Video Cables Included (1) VGA cable **1,5 m** (4.9 ft)

Multimedia **Speakers** N/A

Power Power Supply External

> **Input Power** 100 - 240 VAC 50/60 Hz

Maximum Power 40 W **Typical Power** 17 W **Sleep Power** 0.5 W

Power Cable Length 1,9 m (6.23 ft)

Energy Star Data Operational Mode at

EU Energy Efficiency

Class (EC1062)

Mechanical

100 VAC

Operational Mode at

115 VAC

Operational Mode at

230 VAC

On-mode Power Consumption (EC

1062/2010)

Annual Power

Consumption (EC

1062/2010)

Energy Efficiency Class (EC 1062/2010)

Visible Screen Size

(Diagonal)

Dimensions

 $(W \times D \times H)$

17 W

26 kwH

Α

50.59 KwH/year

50.59 KwH/year

50.59 KwH/year

54,61 cm (21.5-inches)

Unpacked with stand 49,866 x 15,194 x 38,049 cm

(19.63 x 5.98 x 11.83 in)

Unpacked without stand

(head only)

49,866 x 3,6 x 30,146 cm (19.63 x 1.42 x 11.87 in)

Packaged 57.4 x 12.4 x 40 cm

(22.59 x 4.88 x 15.75 in)

Weight **Head Only 2,5 kg** (5.5 lb)

> Unpacked with stand 3 kg (6.6 lb)

Technical Specifications

		Packaged	4,6 kg (10.12 lb)
Ergonomic Features	Detachable Stand	Yes, ships detached	
Not available on head only model	Height Adjustment	N/A	
only model	Tilt Range	-5° to + 22° vertical	
	Swivel	N/A	
	Pivot	N/A	
Environmental	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%	
	Altitude - Operating	0 to 5,000 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 Halogen	Yes	
	Mercury-Free Display Backlighting	Yes	
Environmental Data	Eco-Label Certifications & declarations		in the process of being certified to the be labeled with one or more of these
(in acc	r Consumption ordance with US Y STAR® test		Edge ed in the United States. See t for registration status in your country

ENERGY STAR® test			
method)	115VAC, 50Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation	14.72 W	15.62 W	15.06 W
Sleep	0.43 W	0.45 W	0.46 W
Off	0.29 W	0.27 W	0.27 W

Heat Dissipation*	115VAC, 50Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation	50 BTU/hr	53 BTU/hr	52 BTU/hr	
Sleep	1 BTU/hr	2 BTU/hr	2 BTU/hr	
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr	



Technical Specifications

*NOTE: 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.
- 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.
- This product contains 0.0% post-consumer recycled plastic (by wt.)
- This product is 98.7% recycle-able when properly disposed of at end of life.

Packaging Materials	External:	PAPER/Corrugated	518 g
		PAPER/Paperboard	20 g
		PAPER/Paper	28 g
	Internal:	COMPOSITE/paper/carton+plastic	3 g
		PLASTIC/Other	1 g
		PLASTIC/Polyethylene high density - HDPE	28 g
		PLASTIC/Polystyrene Expanded - EPS	230 g
		PLASTIC/Polyester - PET	12 g

RoHS Compliance

HP, Inc. 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).



Technical Specifications

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/pdf/gse.pdf):

- 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: 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.



Technical Specifications

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.

HP, Inc. 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/qlobalcitizenship/environment/productdesiqn/ecolabels.html

ISO 14001 certificates:

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Options 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 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.

What's in the box?

Monitor and Accessories HP N220 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, drivers)

Software HP Display Assistant

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.

Technical Specifications

Color Black

VESA Mounting N/A

Security Lock-Ready Yes

Country of Origin China

Certification and Compliance CEL Grade 1, Microsoft WHQL Certification (Windows 10, Windows 8.1, and Windows 7), ENERGY STAR® 7.0 Qualified, EPEAT® Silver², CE,CB,KC/KCC/NOM/PSB/ICE/TUV-S/ISO 9241-307/ EAC/UL/CSA/PSB/ISC/CCC/CEL/CECP/SEPA/TCO/Energy Star/ISC/VCCI/FCC/BSMI/Vietnam

MEPS/Australian-New Zealand MEPS/WEEE

Compatibility Recommended for use with HP products.

Service and Warranty 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



Technical Specifications

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Change Log

Change Log		
V1 to V2	Models Updated	

