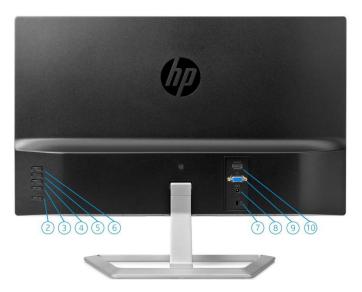
#### **HP N220 21.5-inch Monitor**



- 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: Y6P09AA - HP N220 21.5-inch Monitor

Panel	Tuno	21.5-inch, IPS
ranei	Type	21.5-111(11, 125

Viewable Image Area

iewabte iiilage Ai ea

(diagonal)

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

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

at 60 Hz.

Aspect Ratio 16:9

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

Brightness\* 250 cd/m<sup>2</sup>

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)102.46Pixel Clock170 MHzDefault Color6500K

**Temperature** 

Backlight Lamp Life (to half brightness)

30,000 hours minimum

**Color Support** Up to 16.7 million colors

Color Gamut (Typical) 72% sRGB

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

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

1024 x 768 @ 60 Hz

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 N/A **Speakers** 

**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)

Operational Mode at **Energy Star Data** 

100 VAC

Operational Mode at

115 VAC

Operational Mode at

230 VAC

**EU Energy Efficiency On-mode Power** Consumption (EC

1062/2010)

**Annual Power** 

Consumption (EC 1062/2010)

**Energy Efficiency Class** 

(EC 1062/2010)

**Visible Screen Size** (Diagonal)

**Dimensions** 

 $(W \times D \times H)$ 

50.59 KwH/year

50.59 KwH/year

50.59 KwH/year

17 W

26 kwH

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)

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

> **Unpacked** with stand 3 kg (6.6 lb)

**Class (EC1062)** 

Mechanical

### **Technical Specifications**

		Packaged	<b>4,6 kg</b> (10.12 lb	)
Ergonomic Features	Detachable Stand	Yes, ships detached	i	
Not available on head only model	Height Adjustment	N/A		
	Tilt Range	-5° to + 22° vertica	l	
	Swivel	N/A		
	Pivot	N/A		
Environmental	Temperature - Operating	<b>5° to 35° C</b> (41° to 9	95° F)	
	Temperature - Non- operating	<b>-20° to 60° C</b> (-4° to	o 140° F)	
	<b>Humidity - Operating</b>	20% to 80% non-co	ondensing	
	Humidity - Non- operating	5% to 95%		
	Altitude - Operating	<b>0 to 5,000 m</b> (0 to 1	16,400 ft)	
	Altitude – Non- operating	<b>0 to 12,192 m</b> (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	-	ceived or is in the process of s and may be labeled with or	_
Enorgy	Concumption	<ul> <li>EPEAT® Go</li> </ul>		
Energy Consumption (in accordance with US ENERGY STAR® test				
<b>method)</b> Normal Operation Sleep Off		115VAC, 50Hz 14.72 W 0.43 W 0.29 W	<b>230VAC, 50Hz</b> 15.62 W 0.45 W 0.27 W	<b>100VAC, 50Hz</b> 15.06 W 0.46 W 0.27 W



**Heat Dissipation\*** 

Sleep

Off

**Normal Operation** 

115VAC, 50Hz

50 BTU/hr

1 BTU/hr

1 BTU/hr

230VAC, 50Hz

53 BTU/hr

2 BTU/hr

1 BTU/hr

100VAC, 50Hz

52 BTU/hr

2 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).



#### **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: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.



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: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a>. 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/productdesign/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** 3/3/0. Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack

Services are extended service contracts that extend your protection beyond the standard

warranties.3



### **Technical Specifications**

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Change Log

Change Log		
02/2017	Added Environmental Data	
02/2017	Removed Source Messaging	

