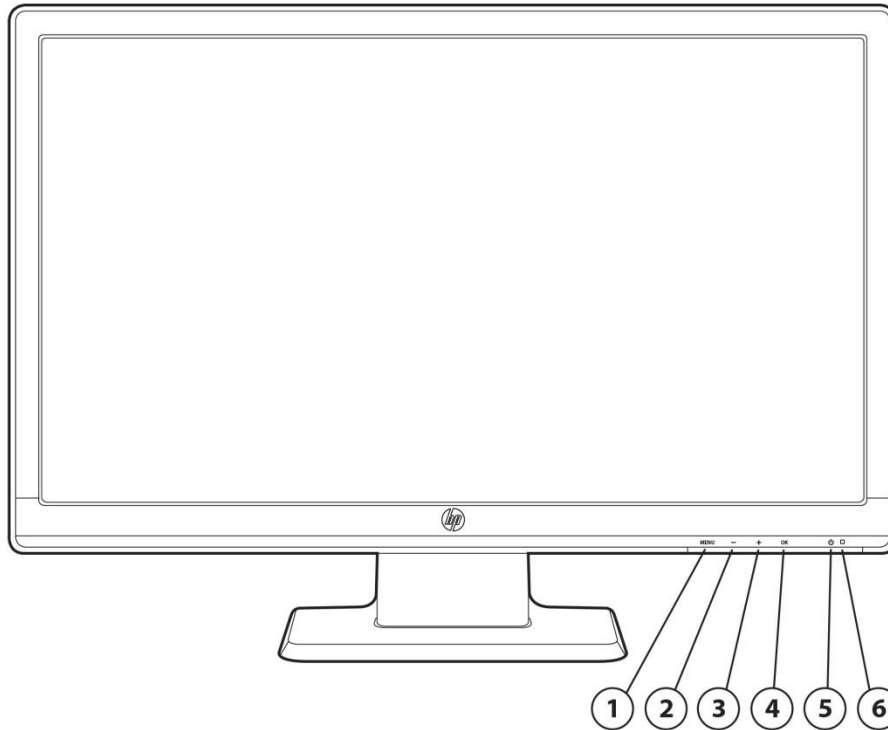


### Technical Specifications

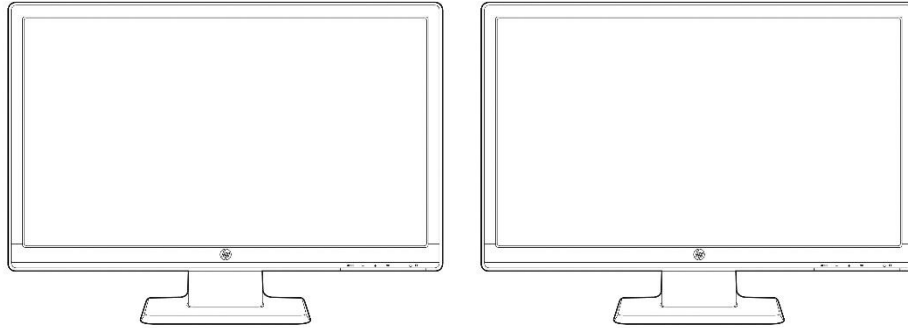
## HP V221p 21.5-inch LED Backlit Monitor



- |                               |   |                     |  |
|-------------------------------|---|---------------------|--|
| <b>1. Menu</b>                | Opens, selects or exits the OSD menu.   | <b>4. OK/Auto</b>   | If the OSD menu is on, press to select the highlighted menu item. If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image. |
| <b>2. Minus "-"</b>           | If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.  | <b>5. Power</b>     | Turns the monitor on or off.   |
| <b>3. Plus "+"/<br/>Input</b> | If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.<br>If the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, DVI, or DisplayPort). | <b>6. Power LED</b> | LED:<br>fully powered = blue;<br>sleep mode = amber;<br>sleep timer mode = flashing amber.   |

## Boost Productivity with Dual Monitor Work Solution

### Technical Specifications



(Multi-monitor support depends on your PC capability. Monitors are sold separately.)

**Model:** J9F21AA

<b>Panel</b>	<p><b>Type</b> TN w/LED backlight</p> <p><b>Viewable Image Area (diagonal)</b> <b>54,6 cm</b> (21.5 in) diagonally measured</p> <p><b>Active Area (W x H)</b> <b>47,66 x 26,81 cm</b> (18.76 x 10.55 in)</p> <p><b>Aspect Ratio</b> 16:9</p> <p><b>Viewing Angle (typical)*</b> Up to 170° horizontal/160° vertical (10:1 minimum contrast ratio)</p> <p><b>Brightness (typical)*</b> 250 cd/m<sup>2</sup></p> <p><b>Static Contrast Ratio (typical)*</b> 1000:1</p> <p><b>Dynamic Contrast Ratio (typical)*</b> 1,000,000:1</p> <p><b>Response Time (typical)*</b> 5ms (on/off)</p> <p><b>Pixel Pitch</b> 0.248 mm</p> <p><b>Backlight Lamp Life (to half brightness)*</b> 30,000 hours minimum</p> <p><b>Color Gamut (typical)*</b> 72%</p> <p><b>Color Support**</b> Can display up to 16.7 million colors</p> <p>*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ** With the use of FRC technology.</p>
<b>On Screen Display (OSD) Controls</b>	<p><b>Buttons or Switches</b> Menu, Minus ("-"), Plus ("+"), OK/Auto, Power</p> <p><b>Languages</b> 9 (English, French, Brazilian Portuguese, Spanish, S. Chinese, T. Chinese, Basaha Indonesia, Japanese, Korean)</p> <p><b>User Controls</b> Brightness, Contrast, Color, Image Control, OSD Control, Management, Language, Information, Factory Reset, Source Control, Exit</p>
<b>Signal Interface/ Performance</b>	<p><b>Horizontal Frequency</b> 24 to 94 kHz</p> <p><b>Vertical Frequency</b> 50 to 76 Hz</p> <p><b>Native Resolution</b> 1920 x 1080 @ 60 Hz</p> <p><b>Preset VESA Graphic Modes (non-interlaced)</b></p> <p>1680 x 1050 @ 60 Hz</p> <p>1600 x 900 @ 60 Hz</p> <p>1440 x 900 @ 60 Hz</p> <p>1280 x 1024 @ 60 Hz</p> <p>1280 x 720 @ 60 Hz</p> <p>1024 x 768 @ 60 Hz</p> <p>800 x 600 @ 60 Hz</p> <p>720 x 400 @ 70 Hz</p> <p>640 x 480 @ 60Hz</p>

### Technical Specifications

	<b>Maximum Pixel Clock Speed</b>	170 MHz	
	<b>User Programmable Modes</b>	N/A	
	<b>Anti-Glare</b>	No	
	<b>Default Color Temperature</b>	6500 K	
<b>Video/Other Inputs</b>	<b>Plug and Play</b>	Yes	
	<b>Input Connectors</b>	VGA (analog), DVI-D (HDCP support on DVI-D)	
	<b>USB</b>	No	
	<b>Video Cables</b>	(1)VGA	
	<b>Video Cable Lengths</b>	VGA <b>1,8 m</b> (5.9 ft)	
<b>Power</b>	<b>Audio</b>	N/A	
	<b>Power Supply</b>	Internal	
	<b>Input Power</b>	100-240V at 50/60Hz	
	<b>Typical Power Consumption</b>	23 W	
	<b>Maximum</b>	29 W	
	<b>Power Saving</b>	0.5 W	
	<b>Power Cable Length</b>	<b>1,9 m</b> (6.2 ft)	
<b>Mechanical</b>	<b>Dimensions (W x D x H)</b>	<b>Unpacked w/stand</b>	<b>51,71 x 18,43 x 37,71 cm</b> (20.36 x 7.26 x 14.85 in)
		<b>Unpacked w/o stand</b> (head only)	<b>51,71 x 4,9 x 31,91 cm</b> (20.36 x 1.93 x 12.56 in)
		<b>Packaged</b>	<b>56 x 10 x 37,7 cm</b> (22.05 x 3.94 x 14.84 in)
		<b>Base area (footprint)</b>	<b>19,97 x 18,43 cm</b> (7.87 x 7.26 in)
		<b>Weight</b>	<b>Head Only</b> <b>Unpacked</b> <b>Packaged</b>
		<b>Tilt Range</b>	-5° to +19°
		<b>Swivel Range</b>	No
		<b>Height Adjustable</b>	No
		<b>Pivot Rotation</b>	No
		<b>Base</b>	Detachable, ships attached
<b>Environmental</b>	<b>Temperature - Operating</b>	<b>5° to 35° C</b> (41° to 95° F)	
	<b>Temperature - Non-operating</b>	<b>-20° to 60° C</b> (-4° to 140° F)	
	<b>Humidity - Operating</b>	15% to 90% non-condensing	
	<b>Humidity - Non-operating</b>	5% to 90%, 38.7° C max wet-bulb	
	<b>Altitude - Operating</b>	<b>0 to 5,000 m</b> (16,404 ft)	
	<b>Altitude - Non-operating</b>	<b>0 to 12,192 m</b> (0 to 40,000 ft)	
	<b>White LED Backlights</b>	Yes	
	<b>CCFL Panel</b>	No	
	<b>Arsenic-Free Display Glass</b>	Yes	
	<b>Low Halogen<sup>3</sup></b>	No	
	<b>Mercury- Free Display</b>	Yes	
<b>Options</b> (sold separately)	<b>Backlighting</b>	N/A	
<b>What's in the box?</b>	<b>Monitor and Accessories</b>	HP V221p 21.5-inch LED Backlit Monitor; VGA cable; AC Power cable.	

### Technical Specifications

<b>Other</b>	<b>Documentation</b>	Printed warranty card
	<b>Featured Software</b>	N/A
	<b>User Guide Languages</b>	English, Spanish, Brazilian Portuguese, French, S. Chinese, Japanese
	<b>Warranty Languages</b>	English, Latin America Spanish, Brazilian Portuguese, French Canadian, S. Chinese, Japanese
	<b>Color</b>	Black
	<b>VESA External Mounting</b>	Yes (one set of standard 4-hole pattern, 75 mm)
	<b>Security Lock-Ready</b>	Yes
	<b>Country of Origin</b>	China
<b>Certification and Compliance</b>	CCC, CECP, CEL Grade 1, SEPA	
<b>Compatibility</b>	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.	
<b>Service and Warranty</b>	Protected by HP, including a 1 or 3 year standard limited warranty <sup>4</sup> . Optional Care Pack Services are extended service contracts which go beyond your standard warranties. <sup>2</sup>	

<sup>1</sup> 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.

<sup>2</sup> HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. 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 <http://www.hp.com/go/lookuptool>. Additional HP Care Pack Services information by product is available at <http://www.hp.com/hps/carepack>.

<sup>3</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

<sup>4</sup> Certain restrictions and exclusions apply. 1-year warranty applies to Japan only. Contact HP Consumer Support 24x7 at 800-334-5144 US for HP technical phone support during the warranty period. See [www.HP.com/go/support](http://www.HP.com/go/support) for details.

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

### Change Log

<b>Change Log</b>			
May 23, 2016	From v1 to v2	Update	Removed ENERGY STAR and EPEAT references