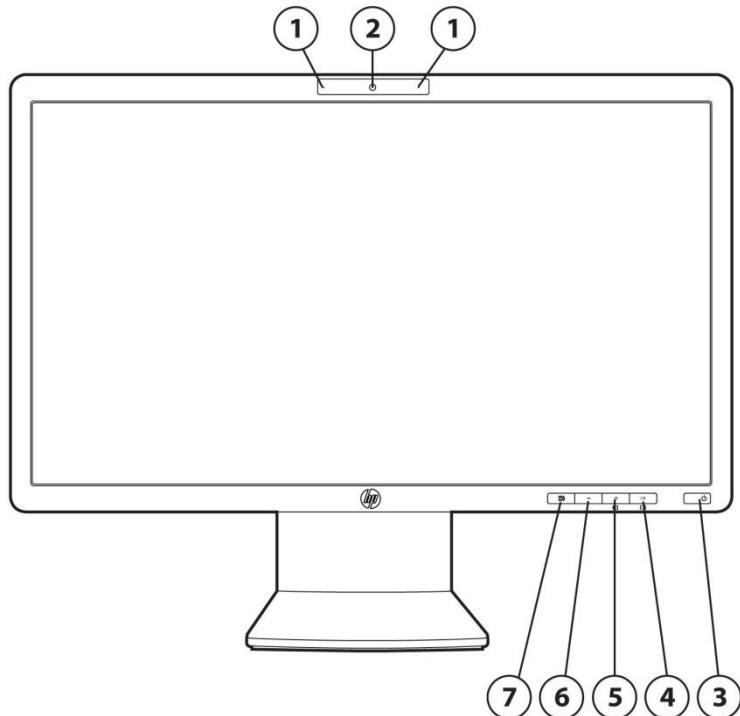


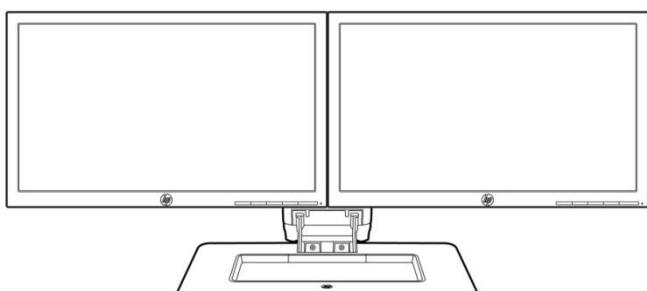
# QuickSpecs HP EliteDisplay E221c 21.5-inch Webcam LED Backlit Monitor

## Technical Specifications

### HP EliteDisplay E221c 21.5-inch Webcam LED Backlit Monitor



<b>1. Mics</b>	Dual microphones	<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. Webcam</b>	Integrated 720p webcam	<b>5. Plus "+"/Input</b>	If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. If the OSD menu is inactive, press to activate the source button that chooses the video signal input (VGA, DVI, or DisplayPort).
<b>3. Power/Power LED</b>	Turns the monitor on or off. LED: fully powered = white; sleep mode = amber; sleep timer mode = flashing amber.	<b>6. Minus "-" /Volume</b>	If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels. Adjust volume levels.
<b>7. Menu</b>	Opens, selects or exits the OSD menu.		



Use two E221c monitors with an HP Adjustable Dual Display Stand (AW664AA) for a small footprint, high productivity work solution.

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

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**Model:** D9E49AA

<b>Panel</b>	<b>Type</b> <b>Viewable Image Area (diagonal)</b> <b>Active Area (W x H)</b> <b>Aspect Ratio</b> <b>Viewing Angle (typical)*</b> <b>Brightness (typical)*</b> <b>Static Contrast Ratio (typical)*</b> <b>Dynamic Contrast Ratio (typical)*</b> <b>Response Time (typical)*</b> <b>Pixel Pitch</b> <b>Backlight Lamp Life (to half brightness)*</b> <b>Color Gamut (typical)*</b> <b>Color Support**</b>	IPS w/LED backlight <b>54,6 cm</b> (21.5 in) widescreen, diagonally measured <b>47,66 x 26,81 cm</b> (18.76 x 10.56 in) 16:9 Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio) 250 cd/m <sup>2</sup> 1000:1 5,000,000:1 7 ms w/overdrive (gray-to-gray) 0.248 mm 30,000 hours minimum 72% Can display up to 16.7 million colors
	<small>*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.</small>	
	<small>** With the use of FRC technology.</small>	
<b>On Screen Display (OSD) Controls</b>	<b>Buttons or Switches</b> <b>Languages</b> <b>User Controls</b>	Menu, Minus ("−")/Volume, Plus ("+") /Input Control, OK/Auto, Power 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese) Brightness, Contrast, Color, Image Control, OSD control, Management, Language, Information, Factory Reset, Input Control
<b>Signal Interface/Performance</b>	<b>Horizontal Frequency</b> <b>Vertical Frequency</b> <b>Native Resolution</b> <b>Preset VESA Graphic Modes</b> (non-interlaced)	24 to 94 kHz 50 to 76 Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 60 Hz 1600 x 900 @ 60 Hz 1440 x 900 @ 60 Hz 1280 x 1024 @ 60 Hz 1024 x 768 @ 60 Hz 800 x 600 @ 60 Hz 720 x 400 @ 60 Hz 640 x 480 @ 60 Hz
	<b>Maximum Pixel Clock Speed</b> <b>User Programmable Modes</b> <b>Anti-Glare</b> <b>Default Color Temperature</b>	200 MHz Yes (10) Yes 6500 K
<b>Video/Other Inputs</b>	<b>Plug and Play</b> <b>Input Connectors</b>  <b>USB</b> <b>USB Cable</b> <b>Video Cables</b>	Yes VGA (analog), DVI-D, DisplayPort (HDCP support on DVI-D and DisplayPort) Integrated USB 2.0 hub with (2) Downstream and (1) Upstream ports (1)USB cable, <b>1,8 m</b> (5.9 ft) (1)VGA, (1)DisplayPort
	<b>Video Cable Lengths</b> <b>Audio</b>	
	APJ Specific: (1)VGA and (1)DVI-D cables are included. DisplayPort cable is only available in Australia and New Zealand). VGA, DVI-D, & DisplayPort <b>1,8 m</b> (5.9 ft) 2) 1W/channel built-in speakers (rear firing); (1) Audio in, (1) Headphone/Speaker audio out	

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<b>Power</b>	<b>Audio Cable Length</b>	1,8 m (5.9 ft)
	<b>Webcam</b>	Integrated 720p webcam with dual microphones
	<b>Power Supply</b>	Internal
	<b>Input Power</b>	90 - 265 VAC at 45 - 63 Hz
	<b>Typical Power Consumption</b>	27 W
	<b>Maximum</b>	42 W
	<b>Power Saving</b>	0.4 W
<b>Mechanical</b>	<b>Power Cable Length</b>	1,9 m (6.2 ft)
	<b>Dimensions (W x D x H)</b>	<b>Unpacked w/stand</b> <b>50,9 x 23,7 x 46 cm</b> (20.05 x 9.34 x 18.12 in)
		<b>Unpacked w/o stand</b> (head only) <b>50,9 x 5,1 x 30,9 cm</b> (20.05 x 2.01 x 12.17 in)
		<b>Packaged</b> <b>57,5 x 18,3 x 50 cm</b> (22.66 x 7.21 x 19.7 in)
		<b>Base area (footprint)</b> <b>16,85 x 23,65 cm</b> (6.63 x 9.31 in)
	<b>Weight</b>	<b>Head Only</b> <b>3,3 kg</b> (7.27 lb)
		<b>Unpacked</b> <b>5,4 kg</b> (11.9 lb)
<b>Environmental</b>		<b>Packaged</b> <b>7,1 kg</b> (15.65 lb)
	<b>Tilt Range</b>	-5° to +30°
	<b>Swivel Range</b>	Yes, 360°
	<b>Height Adjustable</b>	Yes, 150 mm
	<b>Pivot Rotation</b>	Yes, 90°
	<b>Base</b>	Attached
	<b>Temperature - Operating</b>	<b>5° to 35° C</b> (41° to 95° F)
<b>Environmental Data</b>	<b>Temperature - Non-operating</b>	<b>-20° to 60° C</b> (-4° to 140° F)
	<b>Humidity - Operating</b>	20% to 80% non-condensing
	<b>Humidity - Non-operating</b>	5% to 95%, 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>4</sup></b>	Yes
	<b>Mercury-Free Display</b>	Yes
	<b>Backlighting</b>	Yes
	<b>Eco-Label Certifications &amp; declarations</b>	

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaratio
- US ENERGY STAR®
- TCO 6.0 and TCO Edge Certification
- EPEAT® Gold where HP registers commercial display products. See <http://www.epeat.net> for registration status in your country US Federal Energy Management Program (FEMP)

### Energy Consumption (in accordance with US ENERGY STAR® test method)

	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 60Hz</b>
Normal Operation	20.6 W	20.4 W	20.8 W
Sleep	0.4 W	0.4 W	0.4 W
Off	0.2 W	0.2 W	0.2 W

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Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	70 BTU/hr	70 BTU/hr	71 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

\* 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](http://www.epeat.net)
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 12.9 % post-consumer recycled plastic (by wt.)
- This product is 98.2 % recycle-able when properly disposed of at end of life.

### Packaging Materials

External:	PAPER/Corrugated	808 g
Internal:	PLASTIC/EPS (Expanded Polystyrene)	328 g
	PLASTIC/EPE-Expanded Polyethylene	48 g

### RoHS Compliance

Hewlett-Packard 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/supplychain/gen\\_specifications.html](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- 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

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- 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.

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.

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/globalcitizenship/environment/productdesign/ecolabels.html>

#### ISO 14001 certificates:



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<b>Options</b> (sold separately)	<b>HP LCD Monitor Quick Release – Part number EM870AA<sup>1</sup></b>	<a href="http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html">http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html</a>  An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.
	<b>HP USB Graphics Adapter – Part number NL571AA</b>	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.
	<b>HP Dual Output USB Graphics Adapter – Part Number C5U89AA</b>	You can boost your productivity by creating a dual-monitor setup with the HP Dual Output USB Graphics Adapter – featuring both DVI-I and DisplayPort inputs to drive displays at high resolutions through a single USB 3.0 connection to your PC.
	<b>HP Business PC Security Lock Kit – Part number PV606AA</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 Integrated Work Center Stand - USDT and Thin Clients)–Part number LH526AA</b>	Allows mounting of a 17 - 24 inch diagonal HP LCD monitor and an HP Compaq 8000 series Ultra-slim Desktop PC as well as select HP Thin Clients on a single stand for the convenience of an "all-in-one" form factor. For more information, refer to this product's QuickSpecs document.
	<b>HP Adjustable Dual Display Stand – Part Number AW664AA</b>	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.
	<b>HP LCD Speaker Bar—Part number NQ576AA</b>	Powered directly by the connected PC, the Speaker Bar seamlessly attaches to the monitor's lower bezel to bring full audio support to select HP flat panel monitors. Features include dual speakers with full sound range and dual external headphone jacks. Sold separately. For more information, refer to the product's QuickSpecs.
	<b>HP Business Headset—Part number QK550AA</b>	A headset that is perfect for call centers, telephone-intensive jobs, or casual use while working at your desk. The over-the-head flexible design includes light padding, full size leather ear phones and a mounted microphone boom.
	<b>HP DVI to DVI cable – Part number DC198A</b>	Connect to external monitors with a DVI connector from an HP Compaq Business Desktop computer with a DVI connector. The cable is a single link cable with DVI-D support on both connectors. The cable will connect to either a DVI-D or DVI-I connector on the monitor and the graphics card.
<b>What's in the box?</b>	<b>Monitor and Accessories</b>	HP EliteDisplay E221c 21.5-inch Webcam LED Backlit Monitor; VGA cable; DisplayPort cable; USB cable; Audio cable; AC Power cable
	<b>Documentation</b>	<i>APJ Specific:</i> (1)VGA and (1)DVI-D cables are included. DisplayPort cable is only available in Australia and New Zealand).
	<b>Featured Software</b>	Yes, HP Display Assistant, Cyberlink You Cam and HP MyRoom
<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.

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<b>Warranty 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>Color</b>	Black
<b>VESA External Mounting</b>	Yes (one set of standard 4-hole pattern, 100 mm)
<b>Security Lock-Ready</b>	Yes
<b>Country of Origin</b>	China
<b>Certification and Compliance</b>	CE, CB ,KC, KCC, NOM, PSB, ICE, TUV-S, CCC, CEL Grade 1, CECP, SEPA, TCO Certified Edge, VCCI ,FCC, Taiwan BSMI , ENERGY STAR®, EPEAT® Gold <sup>3</sup>
<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 3 year standard limited warranty. Optional Care Pack Services are extended service contracts which go beyond your standard warranties. <sup>2</sup>

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<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> EPEAT® Gold registered models of this product are available where HP registers commercial display products. See [www.epeat.net](http://www.epeat.net) for registration status in your country.

<sup>4</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

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.

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## *Technical Specifications*