

### Overview

### HP EliteDisplay E230t 23-inch Touch Monitor



- 1. Menu:** Opens, selects or exits the OSD menu.
- 2. Minus "-":** If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
- 3. Plus "+/Input:** Select input source. If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels.
- 4. OK/Auto:** 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.
- 5. Power/Power LED:** fully powered = green; sleep mode = amber; sleep timer mode = flashing amber.



Use two HP EliteDisplay E230t 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, stands, keyboard, mouse and notebook are sold separately.)

### Overview

#### Part numbers

W2Z50AA - HP EliteDisplay E230t 23-inch Touch Monitor

W6M46AA - HP EliteDisplay E230t 23-inch Touch Monitor Head Only

#### Introduction

Give your productivity a hand with the ultrathin HP EliteDisplay E230t 23-inch Touch Monitor that's Windows 10 certified for 10-point touch and has adjustable comfort settings.

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#### Key Benefits

- Get a sleek, slim design and a superb hands-on interactive touch experience without glare and messy fingerprints from integrated in-cell touch technology.
- Maximize your visual real estate and see even more of your work with a wide-angle, three-sided, micro-edge screen.
- Attach your HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind the display for an integrated, affordable workspace.<sup>1</sup>
- Find just the right position to be comfortable all day with adjustability that includes height up to 150 mm, tilt, swivel, and pivot, and VESA mounting.<sup>2</sup>
- Connect to your legacy and current environments with VGA, DisplayPort™, and HDMI, and add your USB devices with the integrated two-port USB 3.0 hub.
- Reduce power consumption and help lower your costs with an energy-smart, EPEAT® 2019 Registered<sup>3</sup> design.
- Design the screen for how you work with HP Display Assistant software, which enables screen partitioning and helps deter theft by deactivating a display that's disconnected without approval.
- Create a complete solution with HP accessories<sup>4</sup> designed and tested to work with your display.
- Help ensure a consistent worldwide deployment with a Global Series display that is supported by a three-year standard limited warranty.

1. Sold separately. HP PC Mounting Bracket for Monitors required and sold separately; see Bracket QuickSpecs for exact compatibility.
  2. Mounting hardware sold separately.
  3. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.
  4. Each sold separately.
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### Technical Specifications

#### Technical Specifications

<b>Panel</b>	<b>Type</b>	IPS with LED backlight
	<b>Viewable Image Area</b>	<b>58,42 cm</b> (23 in) widescreen; diagonally measured
	<b>Active Area</b> (W x H)	<b>50,92 x 28,64 cm</b> (20.05 x 11.28 in)
	<b>Aspect Ratio</b>	16:9
	<b>Viewing Angle</b> (typical)	Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)
	<b>Brightness</b> (typical)*	250 cd/m <sup>2</sup>
	<b>Contrast Ratio</b> (typical)*	1000:1
	<b>Dynamic Contrast Ratio</b> (typical)*	5,000,000:1
	<b>Response Rate</b> (typical)*	14mS (on/off typ), 5.7 ms (GTG OverDrive)
	<b>Pixel Pitch</b>	0.2652 mm
	<b>Pixels Per Inch</b>	96 PPI
	<b>Backlight Lamp Life</b> * (to half brightness)	30K hours minimum
	<b>Color Gamut</b> *	72% (typical)
	<b>Color Support</b> **	Can display up to 16.7 million colors
	*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.	
<b>On Screen Display (OSD)</b>	<b>Buttons or Switches</b>	Menu, Minus ("-"), Plus ("+")/Input Control, OK/Auto, Power
	<b>Languages</b>	10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	<b>User Controls</b>	Brightness, Contrast, Color Control, Input Control, Image Control, Power control, Menu Control, Management, Language, Information, Factory Reset
<b>Signal Interface/ Performance</b>	<b>Horizontal Frequency</b>	24 to 80 kHz
	<b>Vertical Frequency</b>	50 to 75 Hz
	<b>Native Resolution</b>	1920 x 1080 @ 60Hz
	<b>Preset VESA Graphic Modes</b> (non-interlaced)	640 x 480 @ 60Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60Hz 1920 x 1080 @ 60Hz
	<b>Maximum Pixel Clock Speed</b>	170 MHz
	<b>User Programmable Modes</b>	Yes, 10
	<b>Anti-Glare</b>	Yes
	<b>Default Color Temperature</b>	6500 K

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<b>Touchscreen Specifications</b>	<b>Touch Panel Type</b>	Up to 10 Point Advanced In-Cell Touch, Self-Capacitive		
	<b>Positional Accuracy</b>	≤±1 mm @ center, ≤2mm( Edge~ 3.5mm)		
	<b>Resolution Accuracy</b>	1920 x 1080		
	<b>Optical Light Transmission (per ASTM D1003)</b>	100%		
	<b>Electrostatic Projection (per EN6100-4-2, 1955)</b>	Air +/- 8kv		
<b>Video/Other Inputs</b>	<b>Plug and Play Input Signal</b>	Yes 1 VGA 1 HDMI 1.4 1 DisplayPort 1.2 (HDCP support on HDMI and DisplayPort)		
	<b>Video Cables</b>	VGA, DisplayPort		
	<b>Video Cable Lengths</b>	<b>1,8 m</b> (5.9 ft)		
	<b>USB</b>	3 USB 3.0 (Two downstream and one upstream)		
	<b>USB Cables</b>	USB 3.0		
	<b>USB Cable Lengths</b>	<b>1,8 m</b> (5.9 ft)		
	<b>Power</b>	<b>Power Supply</b>	Internal	
<b>Input Power</b>		100 - 240 VAC (50/60 Hz)		
<b>Typical Power Consumption</b>		29 W		
<b>Maximum</b>		57 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>52,08 x 18,9 x 48,66 cm</b> (20.5 x 7.4 x 19.2 in)
	<b>Unpacked w/o stand (head only)</b>		<b>52,08 x 5,23 x 31,2 cm</b> (20.5 x 2.1 x 12.28 in)	
	<b>Packaged</b>		<b>62 x 25,1 x 40,2 cm</b> (24.4 x 9.9 x 15.8 in)	
	<b>Weight</b>	<b>Head Only</b>	<b>3,1 kg</b> (6.8 lb)	
		<b>Unpacked</b>	<b>5,1 kg</b> (11.2 lb)	
		<b>Packaged</b>	<b>7,4 kg</b> (16.28 lb)	
	<b>Ergonomic features</b> – Not available on head only model.	<b>Tilt Range</b>	-5° to + 25° vertical	
<b>Swivel Range</b>		N/A		
<b>Height Adjustable</b>		Yes, 150 mm		
<b>Pivot Rotation</b>		Yes, 90°		
<b>Base</b>		Detachable, ships detached		
<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>	20% to 80% non-condensing		

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	<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> (0 to 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>	Yes
	<b>Mercury-Free Display Backlighting</b>	Yes
<b>Options</b> (sold separately)	<b>HP PC Mounting Bracket for Monitors</b> — Part number N6N00AA	Customize an altogether better solution with the HP PC Mounting Bracket for Monitors, which lets you attach your HP Desktop Mini, HP Chromebox, or select HP Thin Client directly behind select HP Z Displays and EliteDisplays.
	<b>HP UHD USB Graphics Adapter</b> — Part number N2U81AA	Just plug the adapter into any USB 2.0 or 3.0 port on your PC and connect the DisplayPort connector on the other end to your UHD display.
	<b>HP Single Monitor Arm</b> – Part number BT861AA	The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day.
	<b>HP LCD Speaker Bar</b> —Part number NQ576AA	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 Adjustable Dual Display Stand</b> —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.
	<b>HP Business PC Security Lock v2 Kit</b> — Part number N3R93AA	Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the HP Business PC Security Lock v2 Kit.
<b>What's in the box?</b>	<b>Monitor and accessories</b>	HP EliteDisplay E230t 23-inch Touch Monitor AC power cord <b>1,9 m</b> (6.2 ft) HDMI cable ( <b>1.8 m</b> length), DMI cable (1.8 m length) VGA cable <b>1,8 m</b> (5.9 ft) DisplayPort cable <b>1,8 m</b> (5.9 ft) USB cable <b>1,8 m</b> (5.9 ft)
	<b>Documentation</b>	CD and printed documentation
	<b>Software</b>	HP Display Assistant is a software utility that allows you to quickly and accurately adjust the display settings and save the configurations that are best suited for you and your environment.

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<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, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	<b>Bezel Color</b>	Black
	<b>VESA External Mounting</b>	Yes, one set of standard 4-hole pattern, 100 mm.
	<b>Security Lock-Ready</b>	Yes, one security lock slot available
	<b>Country of Origin</b>	China
<b>Certifications and Compliance</b>	EPEAT® 2019 Registered <sup>2</sup> , ENERGY STAR® qualified, CE, CB, KC, KCC, NOM, PSB, ICE, TUV-S, ISO 9241-307, EAC, UL, CSA, PSB, ISC, CCC, CECP, SEPA, TCO, TCO Certified Edge, ISC, VCCI, FCC, BSMI, Vietnam MEPS, Australian-New Zealand MEPS, WEEE, China Energy Label (CEL) Grade 1, SmartWay - NA only, Microsoft WHQL Certification (Windows 10)	
<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 an HP standard one 3-year limited warranty (varies by region). Certain restrictions and exclusions apply.*Optional Care Pack Services are extended service contracts which go beyond your standard warranties. <sup>1</sup>	
	*Warranty term may vary by region.	

1. 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 [www.hp.com/go/cpc](http://www.hp.com/go/cpc) for details..
2. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.
3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

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### Change Log

#### Summary of Changes

<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
	Version 1 to 2		
November 3, 2016	Version 2 to 3	Added	USB cable 1,8 m (5.9 ft) to What's in the Box? Section.
November 17, 2016	Version 3 to 4	Updated	DVI cable name changed to DisplayPort under Monitor and accessories section
February 20, 2019	Version 4 to 5	Update	HDMI cable (1.8 m length) added to what is in the box? section
May 23, 2019	Version 5 to 6	Updated	EPEAT
June 3, 2019	Version 6 to 7	Added	HDMI cable to What 's in the box