Technical Specifications

HP EliteDisplay E223 21.5-inch Monitor



1. Power light LED:

fully powered = white sleep mode = amber

sleep timer mode = flashing amber

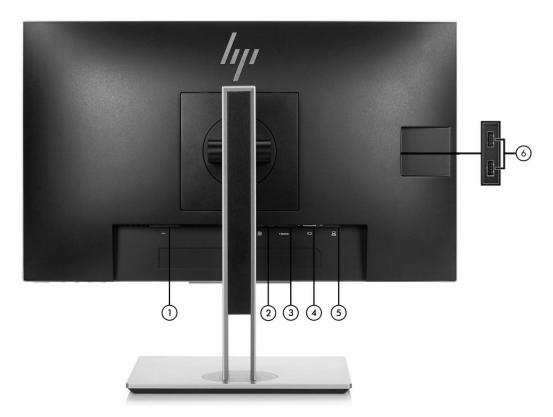
2. Menu Press to open the OSD menu, select a menu item from the OSD, or close the OSD menu.

3-5. Function buttons Use these buttons to navigate through the OSD menu based on the indicators next to the buttons that

are activated while the OSD menu is open.

6. Power button Turns the monitor on or off.

Technical Specifications



- 1. Power Connector
- 2. DisplayPort™ 1.2 (input)
- 3. HDMI 1.4
- 4. VGA
- 5. USB 3.0 upstream port
- 6. USB 3.0 downstream port

Technical Specifications

Models 1FH45A8, 1FH45AA

21.5-inch IPS Micro Edge, LED Backlit **Panel** Type

> Viewable Image Area 55 cm (21.5 in) widescreen; diagonally measured

(diagonal)

Panel Active Area 47.6 x **26.77** cm (18.74 × 10.54 in.)

(W x H)

Resolution 1920 x 1080 @ 60 Hz

Aspect Ratio

Viewing Angle (typical) Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)

Brightness (typical)* 250 cd/m² Contrast Ratio (typical)* 1.000:1 Dynamic Contrast Ratio (typical)* 5,000,000:1 5ms Response Time (typical)*

Pixel Pitch 0. 24795 mm

Backlight Lamp Life 30,000 hours minimum

(to half brightness)

Color Support** Up to 16.7 million colors with the use of FRC technology

Color Gamut NTSC 72%, 94% sRGB

Surface Hardness 3H Flicker Free Yes

Low Blue Light Capable Yes, user selectable in OSD Menu

Anti-Glare

*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.

User Controls On Screen Display Brightness, Contrast, Color Control, Input Control, Image Control,

(OSD) User Controls Power Control, Menu Control, Management, Language, Information,

Monitor Control Buttons or Menu/OK, Minus ("-")/Down/Information, Plus ("+") /Up/Viewing

Mode Menu, Exit/Back/Next Input Port, Power **Switches**

User-Assignable Function Buttons Yes. 10

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

Portuguese, Japanese, T-Chinese and S-Chinese)

Signal Interface/ **Performance**

30-80 kHz **Horizontal Frequency Vertical Frequency** 50 - 60 Hz

Native Resolution 1920 x 1080 @ 60 Hz Preset VESA Graphic Modes (non-640 x 480 @ 60Hz interlaced) 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 @ 60 Hz

1920 x 1080 @ 60 Hz **Maximum Pixel Clock Speed** 170 MHz

Neutral (6500)

Default Color Temperature

Technical Specifications

VIDEO/OTHER INPUTS

Connector Types DisplayPort™ (1) DisplayPort™ 1.2

HDMI (1) HDMI 1.4 **VGA** (1) VGA

HDCP support Yes, HDMI and DisplayPort™

Audio N/A **USB Version** 3.0

Specifications

USB Port

USB Ports (3) USB 3.0 ports (2 downstream and 1 upstream)

Cables Included Video Cables Included (1) VGA **1,8 m** (5.9 ft), (1) DisplayPort[™] **1,8 m** (5.9 ft)

> **USB Cables Included** (1) USB B to A cable 1,8 m (5.9 ft)

Power Power Supply Internal

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

Typical Power¹ 18 W Maximum Power² 36 W **Energy Saving/Standby Mode** 0.5 W

Power Cable Length 1,9 m (6.2 ft)

DIMENSIONS AND WEIGHT

Mechanical **Dimensions** $(W \times D \times H)$ Unpacked w/stand 48,83 x 20,5 x 46,37 cm (highest setting)

(19.22 x 8.07 x 18.26 in) Unpacked w/o stand 48,83 x 29,33 x 4,46 cm (head only) (19.22 x 11.55 x 1.76 in) Packaged 56.8 x 35 x 27 cm

(22.36 x 13.78 x 10.63 in)

Head Only 2,75 kg (6.05 lb) Unpacked 5,26 kg (11.57 lb) Packaged 7,48 kg (16.46 lb)

MONITOR FEATURES

Plug and Play Yes

Color Silver on facing bezel, side frame, column stand and foot; black on rear

cover and stand center trim

Cable Management Yes, integrated into column stand. Effortlessly route cables through

the column stand for easy management of power, video, and USB

cables

Detachable Stand Yes, ships detached **Tilt Range** -5° to + 23° vertical 45°L to 45°R **Swivel Range**

Display height Adjustment Range: 150 mm

adjustment:

Weight

Pivot Rotation Yes. 90° clockwise and counter-clockwise

Yes, 100 mm with integrated mount (included) **VESA Mounting**

Security Lock-Ready Yes

ENVIRONMENTAL

Specifications 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% Relative Humidity non-condensing

Humidity - Non-operating 5% to 95%, 38.7° C max wet-bulb Altitude - Operating **0 to 5,000 m** (0 to 16,404 ft)

Technical Specifications

Altitude - Non-operating 0 to 12,192 m (0 to 40,000 ft)

White LED Backlights **CCFL Panel** No **Arsenic-Free Display Glass** Yes

Low Halogen³ Yes (except cables)

Mercury-Free Display Backlights Yes

OPTIONS (Each sold separately) **HP Single Monitor Arm** —

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.

HP B300 PC Mounting Bracket —

2DW53AA

Attach your HP Workstation, HP Desktop Mini, HP Chromebox or select HP Thin Client directly behind select 2017 and 2018 HP EliteDisplays

and HP Z Displays with the HP B300 PC Mounting Bracket.7

HP S100 Speaker Bar — 2LC49AA

Add rich stereo sound to select 2017 and 2018 HP ProDisplays, HP EliteDisplays, and HP Z Displays⁷ without crowding your desk with the HP S100 Speaker Bar, which fits neatly underneath the display head

and connects through USB.

HP HDMI Standard Cable Kit —

T6F94AA

Use the cable to connect your desktop to your standard HDMI devices

and displays.

HP Quick Release Bracket —

EM870AA6

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 mounts. For more information, refer to this

product's QuickSpecs document.

HP Integrated Work Center for Desktop Mini and Thin Client — G1V61AA

Designed to provide convenient access to the Desktop Mini and select Thin Clients to help maximize the use of limited desk space without compromising performance or productivity. It will support many HP 17 to 24-inch diagonal LCD monitors, with VESA standard mounting brackets. For more information, refer to this product's

QuickSpecs document.



Technical Specifications

WHAT'S IN THE BOX?

What's in the box? Monitor and Accessories HP EliteDisplay E223 21.5-inch Monitor, AC power cord, VGA cable,

DisplayPort™ 1.2 cable, USB B to A cable, integrated VESA mount

Documentation CD, documentation

Other Software included HP Display Assistant

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.

Country of Origin China

CERTIFICATION AND COMPLIANCE

Certification and ENERGY STAR®, EPEAT® Gold⁴, CEL Grade 2, Microsoft WHQL Certification (Windows 7,8 and 10), TCO **Compliance** Certified Edge, SmartWay Transport Partnership (NA SKU), CE, CB, MSIP, Mexico COC, ICES, ISO 9241-

Certified Edge, SmartWay Transport Partnership (NA SKU), CE, CB, MSIP, Mexico COC, ICES, ISO 9241-307, TUS-GS, cTUVus, ISC, CCC, VCCI, FCC, BSMI, WEEE, RCM, ErP, S-mark, Australian-New Zealand

MEPS, KC, KCC, PSB, EAC, Vietnam MEPS

Compatibility Compatible with platforms using the VESA standard video modes. Recommended for use with HP

products.

Service and Warranty 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.5



Technical Specifications

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- 1. Default Power is measured with factory defaults, including factory default brightness and USB ports loaded at 25% of maximum.
- Maximum Power is measured with monitor at maximum brightness and with USB ports loaded at 100% of maximum.
- 3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- 4. EPEAT® registered where applicable/supported. EPEAT registration varies by country. See www.epeat.net for registration status by country.
- 5. 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 http://www.hp.com/go/cpc for details.
- 6. 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.
- 7. Sold separately. See product QuickSpecs for exact device and display compatibility.



Technical Specifications

Change Log	
27/07/2017	From V1 to V2