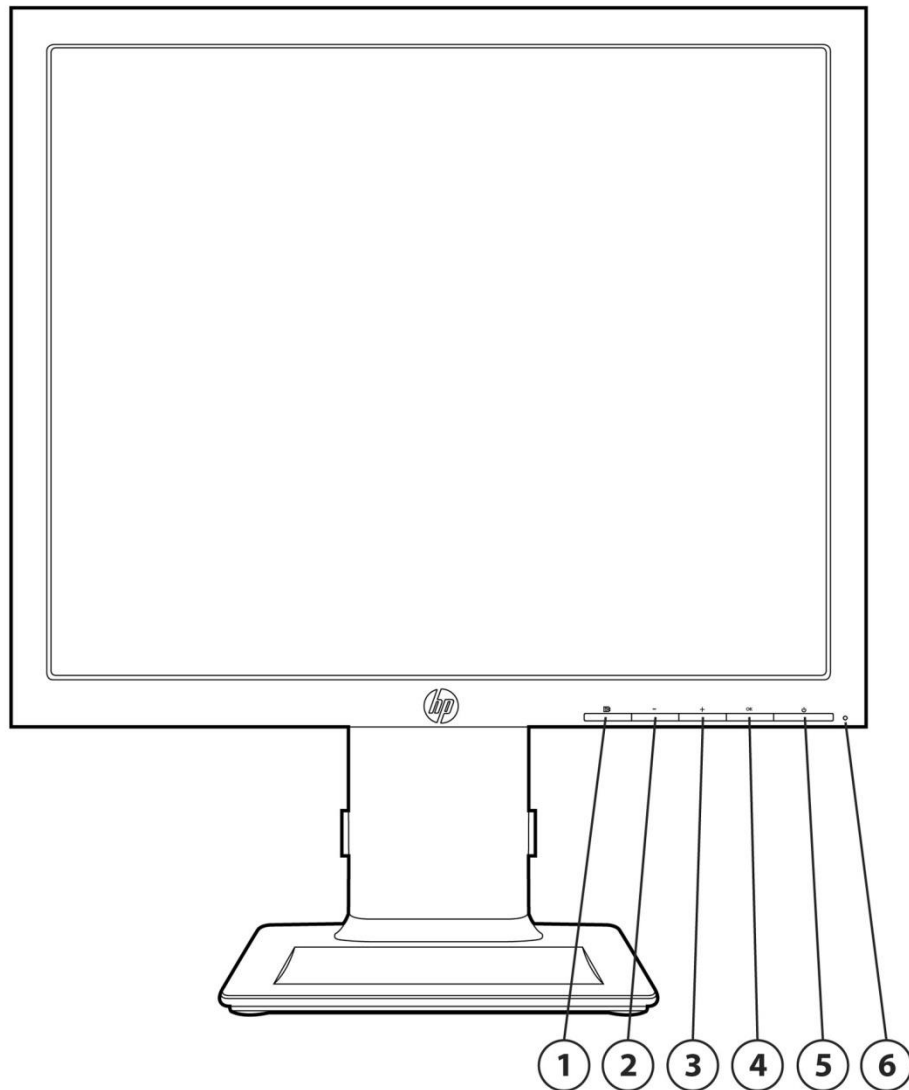


Technical Specifications

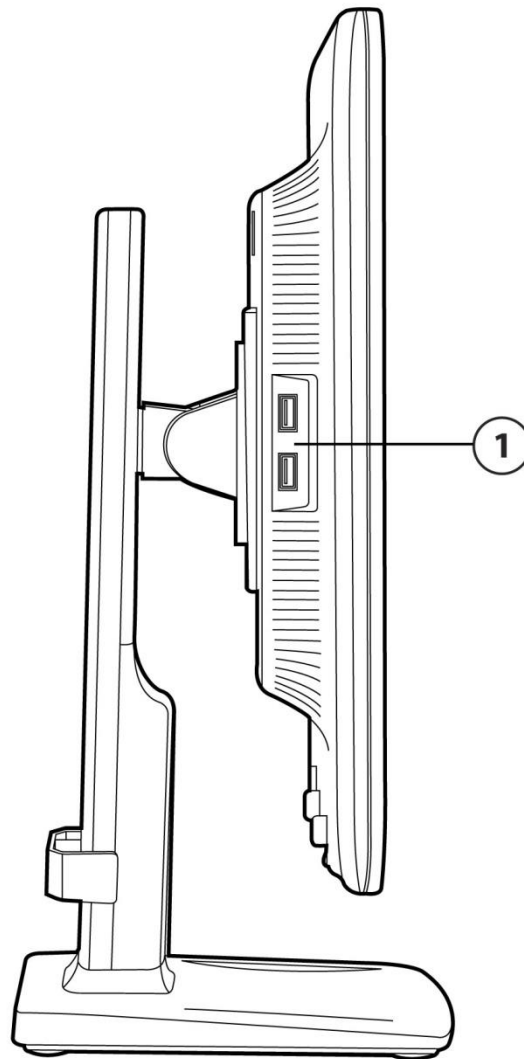
HP EliteDisplay E190i 18.9-inch 5:4 LED Backlit IPS Monitor



1. Menu/Select
2. “-“ OSD Navigation/Auto Adjust
3. “+” OSD Navigation/Input Select

4. OK
5. Power
6. Power LED

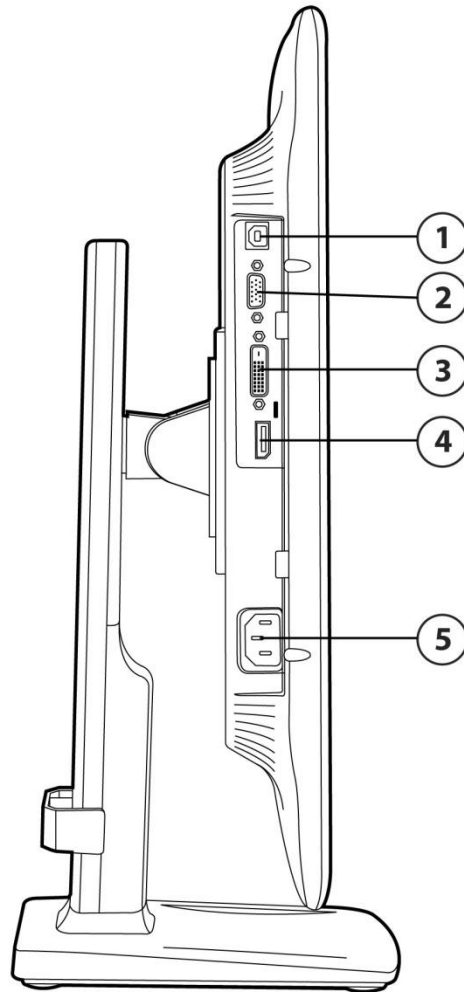
Technical Specifications



Side view

1. USB 2.0 ports

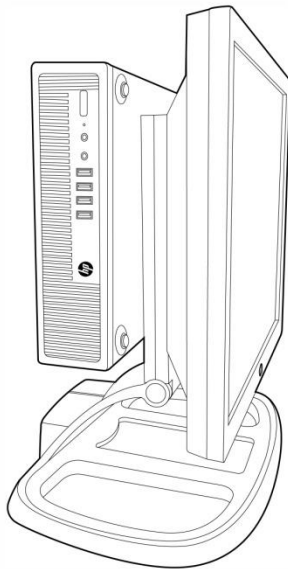
Technical Specifications



Pivot view (monitor pivoted to reveal bottom ports)

- | | |
|---------------------------|--------------------------|
| 1. USB upstream connector | 4. DisplayPort connector |
| 2. VGA connector | 5. Power connector |
| 3. DVI-D connector | |

Technical Specifications



Your ideal compact, space saving configuration begins with a HP EliteDisplay E190i monitor combined with an HP Integrated Work Center Stand – USDT/Thin Clients (LH526AA) with attached Ultra Slim Desktop or Thin Client PC for a small footprint, All-in-Two form factor.

Models

Part Number: E4U30AA, E4U30A8, E4U30AP, E4U30AC, E4U30AT, E4U30AS

Introduction

The HP ProDisplay E190i helps you be more productive with a mission critical 5:4 aspect ratio business monitor designed for all of your business-specific applications, now with the impeccable presentation and extra-wide viewing angles of IPS wide viewing angle technology. Enjoy customizable comfort from a completely adjustable stand and be environmentally responsible with designed-in energy efficiency.

Key Benefits

- Keep the 5:4 aspect ratio that your business-specific enterprise and public sector applications are designed to work with
- Get great 178-degree viewing angles and stunning color integrity from In-Plane Switching (IPS) technology
- Get crisp, clear views of your content with 1280 x 1024 resolution, fast response time, and 3 M:1 dynamic contrast ratio
- Quickly and easily connect to your media and devices with DisplayPort 2.1, VGA and DVI inputs and USB 2.0 Hub
- Reduce power consumption and help lower your costs with an intelligent, energy-efficient design that is ENERGY STAR® and TCO qualified and EPEAT® Gold³ registered.

Technical Specifications

Panel	Type	IPS w/LED backlight	
	Viewable Image Area (diagonal)	48 cm (18.9 in)	
	Panel Active Area (WxH)	37,47 x 29,98 cm (14.75 x 11.8 in)	
	Aspect Ratio	5:4	
	Viewing Angle (typical)*	Up to 178° horizontal/178° vertical (10:1 contrast ratio)	
	Brightness (typical)*	250 cd/m ²	
	Dynamic Contrast Ratio (typical)	3,000,000:1	
	Contrast Ratio (typical)*	1000:1	
	Response Time (typical)*	8 ms (gray to gray)	
	Pixel Pitch	0.2928 mm	
	Backlight Lamp Life (to half brightness)	30K hours	
	Color Gamut	72%	
	Color Support**	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.			
Video/Other Inputs	Plug and Play	Yes	
	USB 2.0 Hub	Self-powered; two ports (cable included)	
	USB Cable	1,8 m (5.9 ft); detached	
	Input Connectors	Three connectors: (1) 15-pin mini D-sub analog VGA and (1) DVI-D and (1) Display Port(select regions)	
	Input Impedance	75 ohms ± 2%	
	Sync Input	Separate sync (HSYNC/VSYNC)	
	Video Cables	VGA, DVI-D, DisplayPort(select regions)	
	Video Cable Length	1,8 m (5.9 ft); detached	
	Signal Interface/ Performance	Horizontal Frequency	53 to 82 kHz
		Vertical Frequency	50 to 76 Hz
Native Resolution		1280 x 1024 @ 60 Hz (analog) 1280 x 1024 @ 60 Hz (digital)	
Max Resolution (Analog)		1280 x 1024 @ 60 Hz	
Max Resolution (Digital)		1280 x 1024 @ 60 Hz	
Preset VESA Modes (non-interlaced)		640 x 480 @ 60 Hz	
		720 x 400 @ 70 Hz	
		800 x 600 @ 60 Hz	
		1024 x 768 @ 60 Hz	
		1280 x 1024 @ 60 Hz	
Max Pixel Clock Speed	135 MHz		
User Programmable Modes	Yes, 10		
Anti-Glare	Yes		

Technical Specifications

On Screen Display (OSD) Controls	Anti-Static	Yes	
	AssetControl	Yes (accessible on HP Compaq Business Desktops featuring HP Client Manager)	
	Default Color Temperature	Warm (6500° Kelvin)	
	Buttons and Switches	"Menu" "-" "+" "OK" "Power"	
	Languages	English, Spanish, French, German, Dutch, Simplified Chinese, Japanese, Portuguese, and Traditional Chinese	
Power	User Controls	Brightness, Contrast, Color, Image Control, OSD Control, Management, Language, Factory Reset, Source Control	
	Power Supply	Internal	
	Power Source	100-240V at 50/60Hz	
	Maximum	28 W	
	Typical Power Consumption	25 W	
	Power Saving Mode	< 0.5 W	
	Off Mode	< 0.5 W	
	Power Cable Length	1,9 m (6.2 ft); detached	
Mechanical	Dimensions (W x D x H)	Packaged	48,6 x 19 x 42,2 cm (19.1 x 7.5 x 16.6 in)
		Unpacked with stand (minimum)	41,7 x 19,2 x 36,6 cm (16.4 x 7.5 x 14.4 in)
		Unpacked with stand (maximum height)	41,7 x 19,2 x 48,6 cm (16.4 x 7.5 x 19.1 in)
		Base area (footprint)	21,45 x 19,2 cm (8.5 x 7.6 in)
		Panel only (without stand)	41,7 x 4,7 x 34,7 cm (16.4 x 1.8 x 13.6 in)
		Weight	Packaged
		Unpacked with stand	4,9 kg (10.8 lb)
		Panel Only (without stand)	3 kg (6.6 lb)
	Bezel Width	20,59 mm (.81 in) left and right, 20,58 mm (.81 in) top, and 26,35 mm (10.4 in) bottom	
	Tilt Range	-5° to +25°	
	Swivel Range	± 180° horizontal swivel	
	Height Adjustable	Yes, 12 cm (4.7 in) adjustment range	
	Pivot Rotation	Yes, 90° into portrait orientation	
Base	Ships detached		
Environmental	Temp. – Operating	32° to 104° F (0° to 40° C)	
	Temp. – Non-operating	-4° to 140° F (-20° to 60° C)	
	Humidity – Operating	15% to 80%, non-condensing	

Technical Specifications

	Humidity – Non-operating	10% to 90%
	Altitude – Operating	0 to 5000 m (0 to 16,404 ft)
	Altitude – Non-operating	0 to 12000 m (0 to 39,370 ft)
	White LED Backlights	Yes
	CCFL Panel	No
	Arsenic-Free Display Glass⁴	Yes
	Low Halogen⁵	Yes
	Mercury- Free Display Backlighting	Yes
Options	HP LCD Speaker Bar — 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.
	HP LCD Monitor Quick Release — Part number EM870AA ⁱ	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.
	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.
	HP DVI to DVI cable — Part number DC198A	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.
What's in the box?	Monitor and Accessories	HP EliteDisplay E190i 18.9-inch 5:4 LED Backlit IPS Monitor; VGA cable; DisplayPort cable; USB cable; AC Power cable
	Documentation	Warranty card and CD
	Featured Software	Monitor Driver (ICM/INF) Display Assistant Auto adjustment pattern utility Adobe Acrobat Reader
Other	User Guide Languages	AMS: English, French, Spanish, B. Portuguese EMEA: Danish, Dutch, Finnish, French, German, Hebrew, Italian, Norwegian, Spanish (Int'l), Swedish, Czech, Greek, Hungarian, Polish, Portuguese, Russian, Slovak, Turkish, Arabic, Kazakh APJ: English, S. Chinese, T. Chinese, Bahasa Indonesia, Korean, Japanese
	Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese

Technical Specifications

Color	Meteorite bezel, Black chassis and stand
VESA External Mounting	Yes (one set of standard 4-hole pattern, 100 mm). Stand must first be removed.
Security Lock-Ready	Yes
Certification and Compliance	TCO Displays, EPEAT® Gold ³ , ENERGY STAR® qualified, CECP eco label (China Energy Conservation Program), SEPA eco label (China), TGM eco label (Taiwan Green Mark), EuP lot6 Tier2, China Energy Label (CEL), China MEPS, Korea MEPS (E-standby), ISO 9241-307, Requirements, CSA 60950-1, UL 60950-1, EN55022 Class B, EN60950 -1, CNS 13438 Class B, IEC 60950-1, "GS" Mark, TUV Approvals, VCCI Approvals, KC and KCC (Korean) Requirements, CE Marking, FCC Part 15 class B Approval, CCC, IT ECO (EDS), EN55024 Class B, CISPR Requirements, SmartWay – NA only - Energy logistics, Microsoft WHQL Certification (Windows 10)
Compatibility	VESA Video Signal Standard (VSI) Compliant video cards have been tested and proven compatible for use with this monitor. Recommended for use with HP products.
Service and Warranty	Protected by HP, including a 3 year standard limited warranty. Optional Care Pack Services are extended service contracts which go beyond your standard warranties. ²

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¹ 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.

² HP Care Pack Services are sold separately. 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 for details.

³ EPEAT® Gold where HP registers commercial display products. See www.epeat.net for registration status in your country.

⁴ 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.

Technical Specifications

Summary of Changes

Date of change:	Version History:		Description of change:
June 3, 2014	From v1.9 to v2.0	Changed	Updated non-operating humidity spec
Jul16, 2014	From v2.0 to v3	Upgrade	Change the version so it would sync with the PB
October 6, 2016	From v3 to v4	Update	Windows 10 certification added