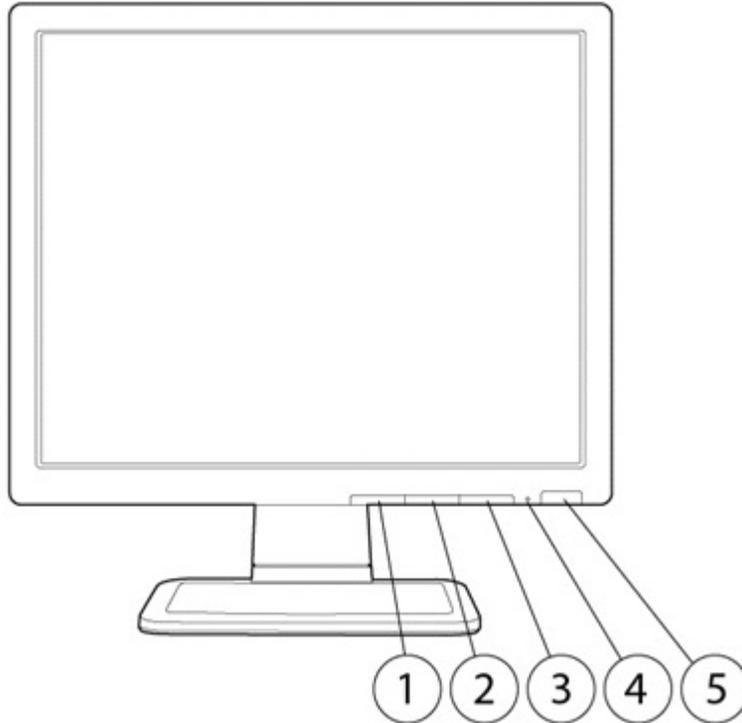


Overview



- | | | | |
|--------------------------|--|---------------------|--|
| 1. Menu/OK | Opens, selects or exits the OSD menu. | 4. Power LED | Fully powered = white
Sleep mode = amber
Sleep timer mode = flashing amber |
| 2. Minus "-"/Auto | If the OSD menu is on, press to navigate backward through the OSD menu and decrease adjustment levels.
If the OSD menu is inactive, press to activate the auto adjustment feature to optimize the screen image. | 5. Power | Turns the monitor on or off. |
| 3. Plus "+" | If the OSD menu is on, press to navigate forward through the OSD menu and increase adjustment levels. | | |

Overview



Your ideal compact, space saving configuration begins with a HP ProDisplay P17A 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: F4M97AA, F4M97A8, F4M97AC, F4M97AT, F4M97AS

Introduction

Get productive with an essential business monitor featuring solid performance, a 5:4 aspect ratio for business-specific applications, and energy savings—all at an attractive price point. Grow with a stylish monitor backed by HP reliability, a stable lifecycle, and HP accessory compatibility.

Key Benefits

- Get crisp, clear views of your documents and e-mail with 1280 x 1024 resolution and 5 ms response time on a 17-inch diagonal screen.¹
- Reduce power consumption and lower costs with an energy efficient design that is ENERGY STAR® and TCO qualified and EPEAT® Gold registered.²
- Includes mercury-free display backlights, low halogen design,³ and arsenic-free display glass.
- Quickly connect to your devices with a VGA input. Keep your work space tidy with the internal power supply.
- Customize your display's position with adjustable tilt settings and 160-degree vertical and horizontal viewing angles.
- Mount on a wall with the HP Quick Release and standard 100-mm VESA pattern. Keep it compact with the HP Integrated Work Center Stand and a PC or thin client. Boost audio with the HP Speaker Bar.⁴
- Personalize your workspace with HP Display Assistant software and view open applications on all of your connected displays.
- Rest assured that your IT investment is supported by a three-year standard limited warranty. To extend your protection beyond the standard warranties, select optional HP Care Pack Services.⁵

Technical Specifications

Panel	Type	TN (Twisted Nematic) LED Backlit LCD
	Viewable Image Area (diagonal)	43.2 cm (17 in), diagonally measured
	Active Area (W x H)	33,79 x 27,03 cm (13.3 x 10.64 in)
	Aspect Ratio	5:4
	Viewing Angle (typical)*	Up to 170° horizontal/160° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	250 nits (cd/m ²)
	Static Contrast Ratio (typical)*	1000:1
	Dynamic Contrast Ratio (typical)*	N/A
	Response Time (typical)*	5 ms (on/off)
	Pixel Pitch	0.264 mm
	Backlight Lamp Life (to half brightness)*	30,000 hours minimum
	Color Gamut (typical)*	72%
	Color Support**	Can display up to 16.7 million colors
	<i>*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.</i>	
On Screen Display (OSD) Controls	Buttons or Switches	Menu/OK, Minus ("-")/Auto, Plus ("+"), Power
	Languages	9 (English, Spanish, German, French, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)
	User Controls	Brightness, Contrast, Color, Image Control, OSD Control, Management, Language, Factory Reset, Source Control
Signal Interface/ Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	50 to 76 Hz
	Preset VESA Graphic Modes (non-interlaced)	1280 x 1024 @ 60 Hz
		1280 x 800 @ 60 Hz
		1280 x 720 @ 60 Hz
		1024 x 768 @ 60 Hz
		800 x 600 @ 60 Hz
		720 x 400 @ 70 Hz
		640 x 480 @ 60 Hz
	Maximum Pixel Clock Speed	140 MHz
	User Programmable Modes	Yes (10)
	Anti-Glare	Yes

Technical Specifications

	Default Color Temperature	6500 K	
Video/Other Inputs	Plug and Play	Yes	
	Input Connectors	VGA (analog)	
	USB	N/A	
	Video Cables	(1)VGA	
	Video Cable Length	1,8 m (5.9 ft)	
	Audio	N/A	
Power	Power Supply	Internal	
	Input Power	100 - 240VAC at 50/60 Hz	
	Typical Power Consumption	15.2 W	
	Maximum	20 W	
	Power Saving	0.5 W	
	Power Cable Length	1,9 m (6.2 ft)	
Mechanical	Dimensions (W x D x H)	Unpacked w/stand	37,72 x 20,63 x 38,72 cm (14.85 x 8.12 x 15.24 in)
		Unpacked w/o stand (head only)	37,72 x 5,7 x 31,66 cm (14.85 x 2.24 x 12.46 in)
		Packaged	47,4 x 12,3 x 45 cm (18.66 x 4.84 x 17.71 in)
		Base area (footprint)	21,05 x 20,63 cm (8.46 x 8.12 in)
	Weight	Head Only	3,23 kg (7.12lb)
		Unpacked	3,72 kg (8.2 lb)
		Packaged	4,5 kg (9.92 lb)
		Tilt Range	-5° to +25°
		Swivel Range	N/A
		Height Adjustable	N/A
		Pivot Rotation	N/A
		Base	Detachable
	Environmental	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% non-condensing	
Humidity - Non-operating		5% to 95%, 38.7° C max wet-bulb	
Altitude - Operating		0 to 5,000 m (16,404 ft)	
Altitude - Non-operating		0 to 12,000 m (0 to 39,370 ft)	
White LED Backlights		Yes	
CCFL Panel		No	

Technical Specifications

Arsenic-Free Display Glass	Yes
Low Halogen⁴	Yes
Mercury-Free Display Backlighting	Yes

Environmental Data

Eco-Label Certifications & declarations 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 declaration
- US ENERGY STAR®
- TCO 6.0
- EPEAT® <Silver> registered in the United States. See <http://www.epeat.net> for registration status in your country

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

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	10.2 W	10.5 W	10.1 W
Sleep	0.2 W	0.27 W	0.19 W
Off	0.14 W	0.2 W	0.13 W

Heat Dissipation*

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	35 BTU/hr	36 BTU/hr	35 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	0.4 BTU/hr	1 BTU/hr	0.4 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).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 0 % post-consumer recycled plastic (by wt.)
- This product is 98.9% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Paper	515.8 g
Internal:	PLASTIC/EPS (Expanded Polystyrene)	240.8 g
	PLASTIC/EPE-Expanded Polyethylene	25.2 g
	PLASTIC/Other plastics unknown	3 g

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental

Technical Specifications

Material Usage

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).

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/pdf/gse.pdf>):

- 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
- 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

Technical Specifications

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.

Hewlett-Packard Corporate Environmental Information 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:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

Options⁴
(sold separately)

HP LCD Monitor Quick Release - Part number 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 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 USB Dual Output USB Graphics Adapter - Part number C5U89AA Increase screen real estate and productivity with a dual-monitor setup with the HP Dual Output USB Graphics Adapter, featuring DVI-I and DisplayPort inputs to drive displays at high resolutions through a single USB 3.0 Micro B connection to your PC.

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 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 Single Monitor Arm - 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.

Technical Specifications

	HP Integrated Work Center Stand - USDT and Thin Clients - Part number LH526AA	Allows mounting of a 17 - 24 inch diagonal HP LCD monitor and an HP 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.
What's in the box?	Monitor and Accessories Documentation Featured Software	HP ProDisplay P17A 17-inch 5:4 LED Backlit Monitor; VGA cable; AC Power cable Printed documentation and DVD Yes, HP Display Assistant
Other	User Guide Languages Warranty Languages Color VESA External Mounting Security Lock-Ready Country of Origin	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 English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese Black bezel, Black chassis and stand Yes (one set of standard 4-hole pattern, 100 mm) Yes China
Certification and Compliance	TCO Displays, EPEAT® Gold (select regions) ² , 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.	
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 Care Pack Services are extended service contracts which go beyond your standard warranties. ⁵	

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1. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
2. EPEAT® Gold registered in the U.S. See www.epeat.net for registration status by country.
3. External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
4. Each accessory sold separately. Mounting hardware sold separately.
5. 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.
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

Technical Specifications

solution is properly installed to support applied loads.

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.