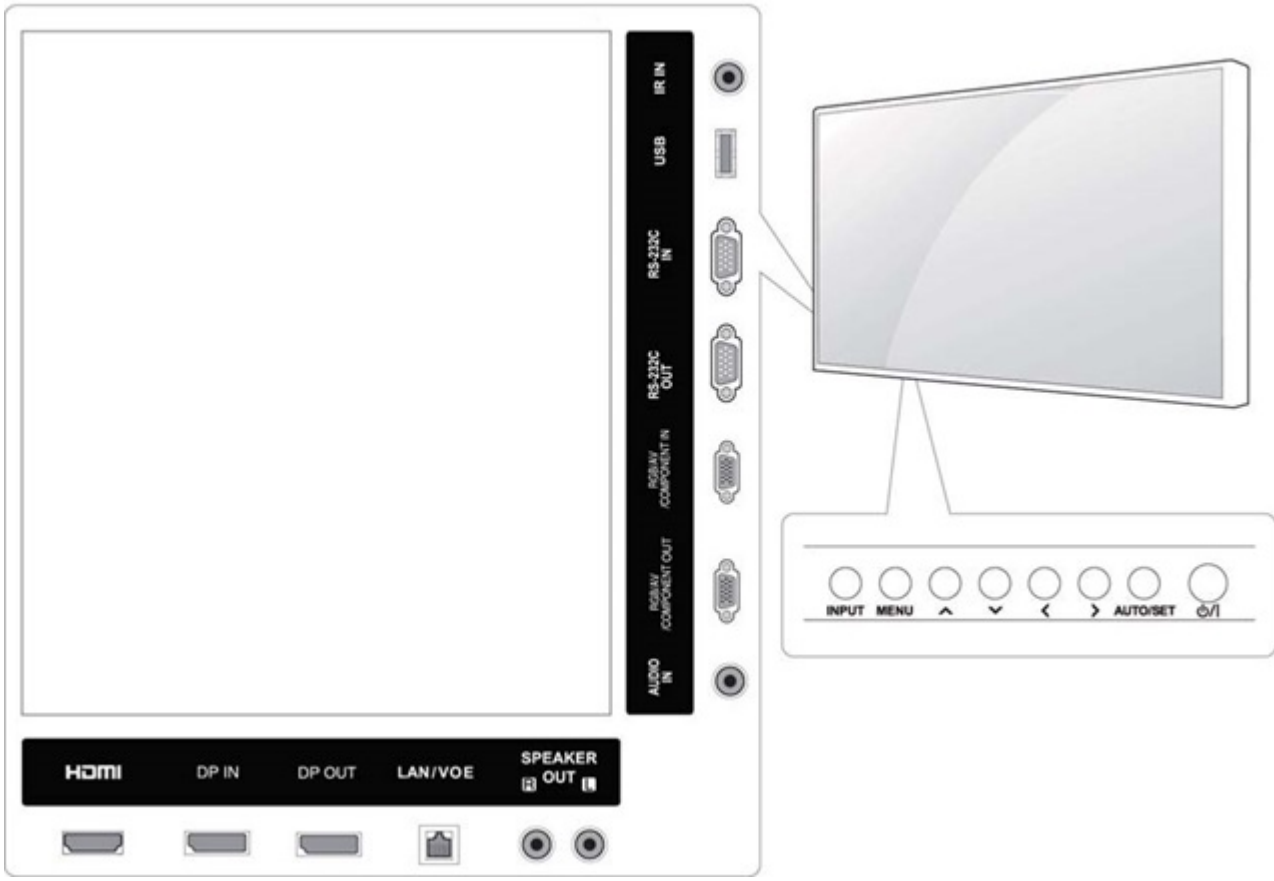
Overview



Input/Output	
HDMI	Connects voice or audio input cable.
DP IN	Connects DisplayPort in cable to the display.
DP OUT	Connects DisplayPort out cable to the display.
LAN/VOE	Connects a local area network cable.
SPEAKER OUT	Connects optional external speakers to the display.
AUDIO IN	Connects an audio cable to the display.
RGB/VGA COMPONENT OUT	Connects an RGB/VGA component out cable to the display.
RGB/VGA COMPONENT IN	Connects an RGB/VGA component in cable to the display.
RS-232C OUT	Connects an RS-232C out cable to the display.
RS-232C IN	Connects an RS-232C in cable to the display.
USB	USB Connects a USB cable to the display.

Controls	
INPUT	Changes the input source.
MENU	Accesses the main menus, or saves your input and exits the menus.
∧ ∨	Moves the selection up and down.
< >	Adjusts the volume level.
AUTO/SET	Displays the current signal and mode. Press this button to adjust the screen automatically (RGB mode only).
%/I	Turns the power on or off.

Overview

IR IN	Connects an IR cable to the display.

Model

F1M95AA, F1M95AC

Technical Specifications

Panel	**Type**	IPS, LED with direct backlit
	Viewable Image Area	**119,278 cm** (46.96 in) widescreen; diagonally measured
	Panel Active Area (W x H)	**103,96 x 58,48 cm** (36.53 x 20.54 in)
	Aspect Ratio	16:9
	Viewing Angle (typical)	Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	340 cd/m^2
	Static Contrast Ratio (typical)*	1000:1
	Dynamic Contrast Ratio (typical)*	500,000:1
	Response Rate (typical)*	6 ms gray to gray
	Pixel Pitch	0.5415 mm
	Color Gamut	68%
	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.	
Touch Frame Specifications	**Touch Module Type**	IR Spread Technology; 5-point multitouch plus gesture
	Touch Input	Finger, gloved hand, or passive stylus (=8mm diameter)
	Touch Point Response	<10ms with dual touch
	Refresh Rate	100 point/ sec (single-and multi-touch)
	Positional Accuracy	< ± 1.0mm @ 95% area
	Controller Resolution Support	1920 x 1080
	Glass Transmission	85%
	Touch Certification	No certification, only supports Win-7 and Win-8 functionality
On Screen Display (OSD) Controls	**Buttons or Switches**	Input, menu, ▲up, ▼down, ◄left, ►right, auto/set, power
	Languages	9 (German, Simplified Chinese, Traditional Chinese, English, Spanish, French, Italian, Dutch, and Portuguese)
	User Controls	Brightness, Contrast, Backlight, Sharpness, Color, Tint, Color temperature, Image Control, Sound Mode, Input, Aspect Ratio, Audio, Time, Language, Factory Reset
	User Programmable Modes	20
	Audio Controls*	Infinite Sound, Treble, Bass, Standard, Music, Cinema, Sport, Game. *Note: Monitor does not ship with speakers (available as an accessory)
Signal Interface/ Performance	**Horizontal Frequency**	30 to 83 kHz
	Vertical Frequency	50 to 60 Hz
	Recommended Resolution	1920 x 1080 @ 60 Hz

Technical Specifications

	Max Resolution	1920 x 1080 @ 60 Hz	
	Preset VESA Graphic Modes (non-interlaced)	1920 x 1080 @ 60 Hz 1680 x 1050 @ 60Hz 1600 x 900 @ 60Hz 1440 x 900 @ 60Hz 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	150 MHz (Digital and Analog)	
	Anti-Glare	Yes	
	Default Color Temperature	Medium (9300K)	
	Plug and Play	Yes	
Video/Other Inputs	**Input Signal**	RGB/VGA, DisplayPort 1.1a, HDMI (HDCP support on DisplayPort and HDMI)	
	Output	RGB/VGA, DisplayPort 1.1a out for tiling	
	USB	(1) USB 2.0 input for use with HP Media Sign Player, Type A port (1) USB 2.0 port for powering touch module, Type B port	
	LAN (RJ45)	(1) RJ45 Input, command, control and video over Ethernet	
	RS232C	In and Out	
	Audio	(1) audio input jack	
	Speakers	Not included	
	IR	(1) input	
	Video Cables included	(1) VGA, (1) HDMI, (1) DisplayPort	
	Video Cable Lengths	**1,8 m** (5.9 ft)	
Power	**Power Supply**	Internal	
	Input Power	100 ~ 240 VAC	
	Frequency	50~60Hz	
	Typical Power Consumption	100 W (without speakers)	
	Maximum	115 W (without speakers)	
	Power Saving	= 2.0W when Wake on Lan is On; = 0.5W when Wake on Lan is Off	
	Power Cable Length	**1,8 m** (5.9 ft)	
Mechanical	**Dimensions** (W x D x H)	**Unpacked** (head only)	**110,27 x 9,53 x 64,78 cm** (43.41 x 3.75 x 25.5 in)
		Packaged	**120,8 x 23 x 80 cm** (47.55 x 9.05 x 31.49 in)
	Bezel Width	**Left/right and top**	**15 mm** (.59 in)

Technical Specifications

	Weight - maximum	**Unpacked**	**24,8 kg** (54.67 lb)
		Packaged	**28,8 kg** (63.49 lb)
	Tilt Range	None	
	Swivel Range	None	
	Height Adjustable	None	
	Pivot Rotation	None	
	Base (feet/stand)	There is no stand included.	
Environmental	**Temperature – Operating**	**0° to 40° C** (32° to 104° F)	
	Temperature– Non-operating	**-20° to 60° C** (-4° to 140° F)	
	Humidity – Operating	10% to 80% non-condensing	
	Humidity – Non-operating	5% to 95%, 38.7° C max wet-bulb	
	Altitude – Operating	**0 to 5000 m** (0 to 16,400 ft)	
	Altitude – Non-operating	**0 to 12192 m** (0 to 40,000 ft)	
	White LED Backlights	Yes	
	CCFL Panel	No	
	Arsenic-Free Display Glass	Yes	
	Low Halogen[3]	No	
	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

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

	115VAC, 60Hz	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation	96 W	95.5 W	97.4 W
Sleep	0.58 W	0.72 W	0.58 W
Off	0.27 W	0.38 W	0.26 W

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation	328 BTU/hr	327 BTU/hr	333 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	3 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).
- 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 99 % recycle-able when properly disposed of at end of life.

Packaging Materials	**External:**	PAPER/Corrugated	3343 g
	Internal:	PLASTIC/EPP (Expanded Polypropylene)	780 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/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 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

Technical Specifications

Options (sold separately)	**HP DSD Speakers – Part number F2B36AA**	
	HP DSD Security Wall Mount – Part number WB975AA	Ability to install in a variety of commercial applications where an extra-large screen is desired. Enables bundling with select HP Media Players, Thin Clients, or EliteDesk Mini & USDT PC's, directly behind the display, away from view, for a quick and easy comprehensive solution.. Includes a Quick Release for easy mounting and removal of a compatible HP Thin Client or HP USDT PC. Supports 40" to 60" display sizes. Weight restrictions may apply. Includes tilt friction knobs to retain tilt in any position.
	HP MP4 Model 4200, Digital Signage Player - Part number G5R07UT/G5R07UA	Attract and inform your customers with the compact and affordable HP MP4 Digital Signage Player, Model 4200, designed to drive static screen layouts and full-screen video signage content.[4]
	HP MP9 Model 9000, Digital Signage Player - Part number G5R08UT/G4R08UA	Boost sales and engage customers with compelling dynamic and interactive signage content driven by the HP MP9 Model 9000, HP's smallest and most powerful digital signage player.[4]
	HP Digital Signage Installation Service	A range of installation service Care Packs. See www.hp.com/go/digitalsignage.
What's in the box?	**Display and Accessories**	HP LD4745tm 46.96-inch Interactive LED Digital Signage Display AC power cord (1.8 m) 5.9 ft VGA cable (1.8 m) 5.9 ft HDMI cable (1.8 m) 5.9 ft DisplayPort cable (1.8 m) 5.9 ft USB cable Type A male to Type B male (1.8 m) 5.9 ft IR Receiver cable (1.5 m) 4.9 ft Wireless remote control
	Documentation	CD (includes user guide, warranty, drivers)
	Featured Software	Network Sign Manager, Video Over Ethernet
Other	**User Guide Languages**	*EMEA Region*: Danish, Dutch, Finnish, French, German, Italian, Norwegian, Spanish (Int'l), Swedish, Czech, Greek, Hungarian, Polish, Russian, Slovenian, Turkish, Arabic, Kazakh *Americas Region*: English, French, Spanish, B. Portuguese *APJ Region*: English, S. Chinese, T. Chinese, Bahasa Indonesia
	Warranty Languages	*EMEA Region*: Danish, Dutch, Finnish, French, German, Italian, Norwegian, Spanish (Int'l), Swedish, Czech, Greek, Hungarian, Polish, Russian, Slovenian, Turkish, Arabic, Kazakh *Americas Region*: English, French, Spanish, B. Portuguese *APJ Region*: English, S. Chinese, T. Chinese, Bahasa Indonesia
	Color	Black
	VESA External Mounting	Yes, 200 x 200mm
	Security Lock-Ready	Yes
	Certification and Compliance	CE, CB, NOM ,PSB, ICE, TUV-S, CCC, CEL, FCC, C-UL, PSB, C-Tick, SmartWay Transport Partnership (NA), Microsoft WHQL Certification (Windows 8, Windows 7).

Technical Specifications

	Compatibility	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.
	Country of Origin	South Korea
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. HD content required for HD images.
2. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
3. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
4. 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.

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.