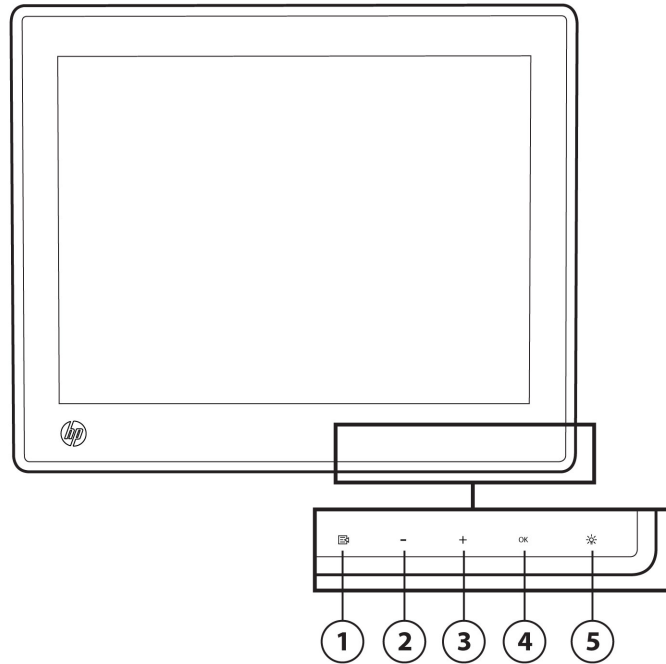## Overview

NOTE: To activate the OSD menu, touch the lower front bezel to the left of the power icon. The OSD icons will become illuminated and the OSD functions become active. The OSD icons will extinguish upon exit from the OSD or OSD timeout.

1.	**Menu**	Opens the On-Screen Display (OSD) main menu.	**4.**	**OK**	If the OSD menu is on, tap to select a menu item. If the OSD menu is inactive and the icons are illuminated, tap to activate the auto adjustment feature to optimize the screen image.
2.	**- Minus**	If the OSD menu is on, tap to navigate backward through the OSD menu and decrease adjustment levels. If the OSD menu is inactive and the icons are illuminated, tap to open the OSD volume control menu and adjust the volume level.	**5.**	**Power LED**	Green = Fully powered. Amber = Sleep mode. Flashing Amber = Sleep Timer mode. Off = Power is off or the LED has been suppressed in the OSD
3.	**+ Plus**	If the OSD menu is on, tap to navigate forward through the OSD menu and increase adjustment levels. If the OSD menu is inactive and the icons are illuminated, tap to activate the Source button that chooses the video signal input.			*Stand is not included and is sold separately.*

Model

HP L6017tm 17-inch Retail Touch Monitor   A1X77AA

Overview

Introduction

The HP L6017tm 17-inch Retail Touch Monitor employs projective capacitive touch technology and is specifically designed to be used with the HP Retail Point of Sale systems. The modernized appearance and sleek design add a wow factor to your retail environment. The chemically strengthened, flush-glass design is both stylish and easy to clean.
DisplayPort, DVI-D, and VGA video inputs provide the highest degree of connection flexibility.

Key Benefits

- Projective capacitive technology delivers an intuitive, familiar multi-touch experience that's similar to that of smartphone and tablet devices
- Industrial design to help protect the monitor in the most demanding retail and hospitality environments
- Flush-glass design provides an easy-to-clean surface
- Four mounting ports on each side of the bezel accept integration of optional peripherals (all sold separately) such as a Magnetic Stripe Reader (MSR), Biometric Fingerprint Reader, or Webcam to enhance functionality and maximize counter space*
- Industry-standard, 100-mm VESA patterns enable flexible mounting in a variety of retail settings
- Designed to work with HP Retail Point of Sale systems to deliver a complete retail solution
- Optional height-adjustable stand (sold separately) provides vertical adjustment and viewing angle flexibility that allows the display to be customized for your exact countertop work space

*HP does not support the use of any other standard USB device beyond the HP Retail Integrated Fingerprint Reader (QZ672AA), HP Retail Integrated Dual-Head MSR (QZ673AA), and HP Retail Integrated Webcam (QZ700AA). Internet access required for webcam functionality.

Technical Specifications

Panel	Type	17-inch TN (Twisted Nematic) LED Backlit LCD
	Viewable Image Area (diagonal)	**43.2 cm** (17 in)
	Aspect Ratio	5:4
	Screen Opening (W x H)	**33,7 x 27 cm** (13.3 x 10.6 in)
	Viewing Angle (typ)*	170 degrees horizontal/160 degrees vertical (10:1 minimum contrast ratio)
	Response Rate	30 ms
	Brightness (typ)*	225 nits (cd/m^2)
	Contrast Ratio (typ)*	800:1
	Pixel Pitch	0.264 mm
	Color Gamut	72%
	*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
On Screen Display (OSD) **Controls**	**Buttons or Switches**	Menu, Minus, Plus, OK, Power
	Languages	English, French, German, Italian, Dutch, Spanish, Japanese, Portuguese, Traditional Chinese, and Simplified Chinese.
	User Controls	Brightness Contrast Color Temperature Image Control OSD Control Management Language Information Factory Reset Source Control Exit
Signal Interface/ Performance	**Horizontal Frequency**	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Graphics Controller	VESA standard timings/formats supported
	Native Resolution	1280 x 1024 @ 60 Hz (recommended
	Preset VESA Graphic Modes (non-interlaced)	1280 x 1024 @ 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

	Anti-Static	Yes
	Default Color Temperature	Standard (6500K)
Touch specifications	**Touch Panel**	Projected Capacitive
	Positional Accuracy	Standard deviation of error is less than 0.080 in (2.03 mm). Equates to less than ±1% error on most displays.
	Resolution Accuracy	More than 100,000 touchpoints/in² (15,500 touchpoints/cm²) for a 15-inch touchscreen. The controller firmware program may reduce resolution to accommodate axis length greater than 465 mm.
	Touch Activation Force	Typically less than 3 ounces (85 grams).
	Expected Life Performance	No known wear-out mechanism, as there are no layers, coatings, or moving parts. Technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
	Surface Durability	Surface scratches will not cause functional failures regardless of the length or depth of the scratch. A Mohs' pick with a hardness rating of 6 or higher is required to induce a cosmetic scratch.
	Optical Light Transmission (per ASTM D1003)	>87%

		Agency test standard	Test passed
	Chemical Resistance	ATSM D 1308-02 [e1] - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes (24 hour duration spot test); and ASTM F 1598-95 (re-approved 2002) - Standard Test Method of Determining the Effects of Chemical/Solvent Exposure to a Membrane Switch/Graphic Overlay (Spot Test Method) - (24 hour duration)	5% ammonia. 6% hydrochloric acid, 70% nitric acid, 40% sulfuric acid, acetone, ball point pen, beer, brake fluid, coffee, Coca-Cola@, ethanol, gasoline, grease pencil, lipstick, Lysol@, methyl ethyl, ketone, naphtha, rubber cement, stamping ink, tea, toluene, trichloroethylene, white vinegar, Windex@ Original, xylene, isopropyl alcohol and water. Chlorine bleach may be used as a sanitizer, if diluted to ensure free chlorine concentrations do not exceed 1600 PPM (4 oz. per gallon of water) (118ml per 3.78 liters of water).

	Electrostatic Protection (pr EN 61 000-4-2, 1955)	Meet Level 4 (15kV air/8j V contact discharges)
Video/Other Inputs	**Plug and Play**	Yes
	Input Signal	(1) VGA; (1) DisplayPort and (1) DVI-D **NOTE:** HDCP supported on digital inputs.
	Input Impedance	75 ohms (2 % value change allowed)
	Sync Input	TTL separate synch
	Video Cables	(1) VGA; (1) DisplayPort and (1) DVI-D inlcuded
	Video Cable Length	**1,8 m** (5.9 ft.)

Technical Specifications

	USB 2.0	(4) USB 2.0; (1) USB upstream; (1) USB cable included	
	USB Cable Length	**1,8 m** (5.9 ft.)	
Audio	**Speakers and I/O**	(2) 1W/channel built-in speakers (rear firing); Audio jacks: (1) Audio-in; (1) audio cable included	
	Audio Cable Length	**1,8 m** (5.9 ft.)	
Power	**Input Voltage**	90 to 265 VAC	
	Frequency	50/60 Hz	
	Typical Power Consumption	26 W	
	Maximum	39 W	
	Sleep	1 W	
	Off	0.5 W	
	Power Cable Length	**1,9 m** (6.2 ft.); detachable	
Mechanical	**Dimensions** (Wx D x H)	**Unpacked w/ stand** (stand is sold separately and is not included)	**38,6 x 28,3 x 42,3 cm** (15.2 x 11.1 x 16.7 in)
		Display Head only	**38,6 x 5,8 x 33,9 cm** (15.2 x 2.3 x 13.3 in)
		Packaged	**45,1 x 16 x 42,2 cm** (17.8 x 6.3 x 16.6 in)
	Weight	**Unpacked** (no stand)	**4,7 kg** (10.36 lb)
		Unpacked w/ stand (stand is sold separately and is not included)	**6,8 kg** (14.99 lb)
		Packaged (no stand)	**5,9 kg** (12.76 lb)
Environmental	**Temperature – Operating**	**5° to 40° C** (41° to 104° F) non-condensing	
	Temperature – Non-operating	**-20° to 60° C** (-4° to 140° F) non-condensing	
	Humidity – Operating	20% to 80% non-condensing	
	Humidity – Non-operating	5 % to 95 % non-condensing	
	Altitude – Operating	**0 to 5000 m** (0 to 16400 ft)	
	Altitude – Non-operating	**0 to 12192 m** (0 to 40000 ft)	
	White LED Backlights	Yes	
	CCFL Panel	No	
	Arsenic-Free Display Glass	Yes	
	Low Halogen1	Yes (everything except external cables)	
	Mercury-Free Display Backlighting	Yes	
Environmental Data	**Eco-Label Certifications**	This product has received or is in the process of being certified to the following	

Technical Specifications

& declarations	approvals and may be labeled with one or more of these marks:

- IT ECO declaration

Energy Consumption	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	15.1 W	15.2 W	15.1 W
Sleep	0.7 W	0.7 W	0.7 W
Off	0.5 W	0.5 W	0.5 W

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation	52 BTU/hr	52 BTU/hr	52 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*NOTE: 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 14.6% post-consumer recycled plastic (by wt.)
- This product is 96% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	External: PAPER/Cardboard & misc	1100 g
Internal:	PLASTIC/Polyethylene low density	12 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/ supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons

Technical Specifications

- 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

For more information about HP's commitment to the environment:

Global Citizenship Report

Technical Specifications

	Information	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.htm
What's in the box?	**Monitor and accessories**	HP L6017tm 17-inch Retail Touch Monitor; VGA cable; DisplayPort cable; DVI-D cables, USB cable; Audio cable; Power cord
	Documentation	Printed documentation and CD
	Featured Software	None
Other	**User Guide Languages**	English, French, German, Italian, Dutch, Spanish, Japanese, Portuguese, T. Chinese, S. Chinese.
	Warranty Languages	English, French, German, Italian, Dutch, Spanish, Japanese, Portuguese, T. Chinese, S. Chinese.
	Color	HP Black
	VESA External Mounting	Yes (Standard 4 hole pattern, 100 mm
	Kensington Lock-ready	Yes
Certification and Compliance		UL Listed, CSA for Canada and US, FCC approval, ICES, BSMI for Taiwan, CCC/CECP/SEPA/CEL for China, C-Tick for Australia, S-Mark for Argentina, CB, CE approval, VCCI
Operating System Support		Microsoft Windows 7 32-bit Professional Microsoft Windows 7 64-bit Professional Microsoft Windows Embedded for Point of Service Microsoft Windows Embedded POSReady Microsoft Windows Vista Business 32 Edition Microsoft Windows XP Professional
Compatibility		Compatible with platforms using the VESA standard video modes.
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.
Additional Options (All sold separately)	**HP Height-Adjustable Stand for Touch Monitors (A1X81AA)**	A height adjustable stand supporting both the 15" (L6105tm) and 17" (L6017tm) monitors. • Allows the monitor to be set on a counter or cash drawer • Ruggedized, small footprint maximizes counter space for employees and customers • Height and tilt adjustments help you customize positioning to best meet your environment's needs
	Stand Specifications	
	Tilt Range	–5 to +60 degrees
	Swivel Range	No
	Height Adjustable	Yes, range 177.5 mm
	Pivot Rotation	No
	Base and Stand	Undetachable

Technical Specifications

Dimensions (W x D x H)	**37,5 x 33,5 x 32 cm** (14.8 x 13.2 x 12.6 in)	
Weight	**Unpacked**	**3,25 kg** (7.17 lb)
	Packaged	**4,63 kg** (10.21 lb)
Color	HP Black	

HP RP7 Value Stand (E5E14AA)
A budget-friendly stand that's ideal for tight spaces. The single-hinge fixed height design delivers -5° to +30° adjustable tilt range for easy positioning. With a smaller footprint than the performance stand, it fits easily into small work environments such as kiosks, corners, and tight hospitality countertops and sits neatly on top of HP RPOS Cash Drawers. A printer and keyboard can be positioned on the stand along with the HP RP7 for a tidy solution that maximizes the available space.

Stand specifications

Tilt Range	-5° to 30°	
Swivel Range	No	
Height Adjustable	No - fixed height	
Pivot Rotation	No	
Base and Stand	Not detachable	
Dimensions (W x D x H)	**28,52 x 14,8 x 19,563 cm** (14.8 x 13.2 x 12.6 in)	
Weight	**Unpacked**	**2,14 kg** (4.71 lb)
Color	HP Black	

HP Business PC Security Lock Kit (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.

NOTE: The following USB modules (sold separately) can be installed on the top of the monitor, the bottom of the monitor, or on either side of the monitor. HP does not support the use of any other standard USB device beyond the HP Retail Integrated Fingerprint Reader (QZ672AA), HP Retail Integrated Dual-Head MSR (QZ673AA), HP Retail Integrated Webcam (QZ700AA), and HP Retail Integrated Barcode Scanner (E1L07AA/E6N62AV).

HP Retail Integrated Barcode Scanner (E1L07AA/E6N62AV)
- Accurately scan 1D and 2D barcodes with the HP Retail Integrated Barcode Scanner.
- Speed up transactions and save space with a smart, flexible design that easily connects to the HP RP7 all-in-one retail solution and HP L6017tm and HP L6015tm retail displays.

HP Retail Integrated Dual-Head MSR (QZ673AA)
- Enables credit card transactions without adding clutter to the POS work space
- Bi-directional swipe for ease of use
- Audio good read indicators allow employees to swipe with confidence of a successful read

Technical Specifications

HP Retail Integrated Fingerprint Reader (QZ672AA)	• Eliminates password sign-in hassles and buddy-sign-in • Enables employee authentication so only authorized associates have access to appropriate applications and functions on the terminal • Allows for secure manager approvals and transaction overrides. • Requires fingerprint reader-enabled software/application (sold separately)
HP Retail Integrated Webcam (QZ700AA)	• Enables interactive technical support for POS serviceability • Supports personalized customer interface with online/remote Customer Service Representatives in a kiosk setup • Internet access, sold separately, is required for transmission of still images and video over a network
HP Retail Integrated 7-inch CFD (F7A92AA)	• Give customers a clear view of their transactions • Share engaging, colorful, dynamic content at the point-of-sale Integrates easily into your retail solution • The USB bezel connector powers the CFD and eliminates the need for additional cabling • The edge-to-edge, bezel-less design is easy to clean, helps provide protection from dust, and creates a sleek, modern appearance.

1 External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
2 HP Care Pack Services extend service contracts beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at http://www.hp.com/hps/carepack.