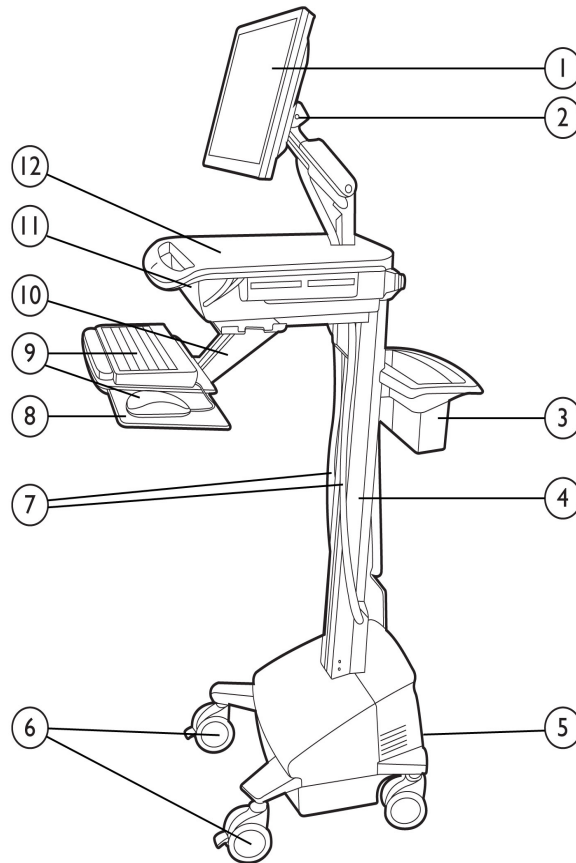


## Chart Cart Overview



1. 19-inch diagonal WLED Backlit LCD Monitor with tilt and swivel
2. HP LCD Monitor Quick Release Mount
3. Storage back and rear handle
4. 20-inch (50.8 cm) sit-to-stand height adjustability
5. HP Chart Cart battery
6. Small footprint 17 x 21 inches (43 x 53.3 cm) with front locking casters
7. Cable management
8. Left or right sliding mouse tray
9. HP USB/PS2 Washable Keyboard and HP USB/PS2 Mouse
10. Side-to-side pan keyboard tray
11. LED keyboard lighting
12. Large work surface with handles

## Models

HP Chart Cart 1100d

QK789AA#ABA



### Chart Cart Overview

#### Overview

Making point-of-care easier; the HP Chart Cart 1100d arrives in a single carton, completely configured and ready to deploy. Designed to support small clinic technology requirements, the HP Chart Cart 1000d combines an innovative point-of-care cart with carefully-selected technology that is highly affordable and moves with you as you see patients, update health records, and review charts.

The HP Chart Cart 1100d is powered by an on-board battery, which includes the option to install StyleLink Software. The software is designed to help manage the power usage of the individual cart, plus optimizes the PC and Cart within an IT environment. Installation of StyleLink Software also extends the battery warranty up to one-year.

<http://www.ergotron.com/tabid/65/PRDID/434/language/en-US/default.aspx>

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#### Service and support

The HP Chart Cart 1100d includes the following products and warranties:

- HP Compaq 6005 Pro USDT Business PC: 3-year parts, labor, on-site warranty service
- HP Compaq LE1901w 19-inch WLED Backlit LCD Monitor: 3-year parts, labor warranty
- HP USB/ PS2 Washable Keyboard and Washable Scroll Mouse, 3-year parts, labor, on-site service with system
- HP Chart Cart 1100d chassis mechanical: 5 year parts, labor, on-site warranty service
- HP Chart Cart 1100d power module: 2 year parts, labor, on-site warranty service
- HP Chart Cart 1100d non-power-module electronics: 1 year parts, labor, on-site service
- HP Chart Cart Battery: 3 months parts, labor, on-site service
- HP Chart Cart Battery with StyleLink installed: 1 year parts, labor, on-site service

If one of the above products fails during the Limited Warranty Period and the suggestions in the product documentation do not solve the problem, see the applicable warranty for information on contacting HP support, calling 1-800-HPINVENT, or going to the Worldwide Web at: <http://www.HP.com/support>.



## Chart Cart Specifications

### HP Chart Cart 1100d Overview

Customer Products & Accessories/Models Supported	Monitor Dimensions	HP 19"-diagonal widescreen monitor
	Monitor Weight Range	Up to 17 lb (7.7 kg) max
	CPU Dimensions – including AC Adapter (H x W x D)	Min: 1.5 x 15.5 x 9 in (38.1 x 393.7 x 228.6 mm) Max: 3.75 x 15.75 x 14.75 in (92.25 x 400.05 x 374.65 mm)
	CPU Weight Range – including AC Adapter	Up to 13 lb (5.89 kg) max
	Keyboard/Mouse Combo Weight Range	3 lb max (1.36 kg)
	Overall System Weight	Total Lift Weight = 8 lb – 30 lb (3.63 – 13.60 kg)

### Cart Chassis

User Forces & Weight Loads	User Forces: Monitor Arm	When using a monitor within the weight spec, user will experience the following user forces:  Arm Lift = <7.5 kg max  Pivot Tilt = 3 kg max  Pivot Pan = 13 - 35 (cm - kg)
	User Forces: Head Unit Lift Engine	When product is integrated with equipment that does not exceed the overall system weight range max, the user will experience the following user forces:  Top: =9kg with up to 75mm rise/sag acceptable  Middle: =6kg with 0mm rise/sag at min and mid weight, or =8kg with 0mm rise/sag at max weight  Bottom: =9kg with up to 75mm rise/sag acceptable
	User Forces: Lift Engine Brake	7.7 lb (3.5 kg) max
	User Forces: Keyboard Tray	4 kg max (sliding, fore/aft)
	User Forces: Mouse Tray	4 kg max (sliding, side to side)
	Brake Load	100 lb (45.4 kg) max additional load throughout life of product
	Power System	Batteries
	Power Supply	TrippLite 12V, 120VAC/60Hz power supply



## Chart Cart Specifications

Product Features, Materials & Finishes	Outlets	Four (4) outlets for 120V~ system
	Access to Battery and Power Supply Compartments	Meets standard for UL60601-1
	Power Cord	10' coiled cord, NEMA 5-15P, Hospital Grade plug with IEC connector (to power system) and strain relief
	Height Adjustment Range: Head Unit Lift Engine	20" vertical lift from 23" to 43" (top of keyboard height)
	Height Adjustment Range: Monitor Arm	4" without bifocal tilted 6" with bifocal tilted
	Height Lock: Head Unit Lift Engine	Brake actuation system via hand lever – 1" increments
	Weight Adjustment: Head Unit Lift Engine	Yes – with 14 mm socket (not supplied)
	Weight Adjustment: Monitor Arm	Yes – with supplied tool (4 mm Allen T-handle)
	Tilt Adjustment Range – Monitor Arm	Forward: 12°±5° Backward: -60°±5°
	Tilt Adjustment – Monitor Arm	Exact range depends on equipment being mounted.
	Tilt Adjustment – Keyboard Tray	Yes, with supplied tool (3 mm Allen key) 10° negative tilt, max; 3° positive tilt, max
	Tilt Lock – Monitor Arm	No
	Tilt Lock – Keyboard Tray	No
	Portrait/Landscape Feature	±360°* <i>*Arm ships with P/L disabled. Customer must follow User Guide to enable this feature for 1100d version only</i>
	Side to Side Pan – Monitor Arm	90° Left & Right
	Side to Side Pan – Keyboard Tray	90° Left & Right
	Keyboard Lighting	Included
	Worksurface	Amber LEDs with 15-min auto shut-off activated via keypad on the worksurface One-piece, with Ready-On & Keyboard Light and Battery Life Indicator overlays
	Head Unit Fan	Included
	VESA Compatibility	MIS-D (hole patterns: 100 x 100 mm & 75 x 75 mm)
Read-On capability, USB Hub	Included	
Wrist Rest	Included	
Battery Life Management Software	Included – available via download	



## Chart Cart Specifications

	<b>Casters</b>	Two (2) 4" locking casters (front) Two (2) 4" non-locking casters (rear)
	<b>Basket &amp; Handle</b>	Fixed, independent mounting Size: see dimensional illustration
	<b>Security Feature</b>	Weight Capacity: 5 lb. max Two (2) keyed locks on the rear of the worksurface secure the contents of the head unit compartment.
	<b>Cable Management Feature</b>	Includes two (2) plastic cable channels secured to side of lift engine extrusion Includes two (2) Velcro ties
<b>Safety, Testing and Environmental Specifications</b>	<b>Storage Temperature</b>	Head unit Includes two (2) removable side covers to allow for access to notebook's left/right side connections -20°C to + 50°C
	<b>Operating Temperature</b>	10° to 29°C
	<b>Important Safety Features</b>	Tip Test: under full load with the product adjusted to the highest position, unit can support angles up to 10° Tip Force: under full load with the product adjusted to the highest position, unit can withstand 10 lbs of force without tipping. Emergency Brake for Head Unit Height Adjustment Mechanism Cart Load Rating: designed and tested to support 4X max load rating.
	<b>Environmental &amp; Chemical Standards</b>	RoHS, REACH, and preliminary REACH SVHC compliant All plastic parts >25 grams to be marked per ASTM D1972 and ASTM D1600 or ISO 11469
	<b>Packaging Standards</b>	No PVC except in wire insulation RoHS, WEEE and EU (94/62/EC) packaging compliant Pass ISTA 3E standards
	<b>Safety/Regulatory Certification Requirements</b>	Cart and power system are certified to UL 60601-1, CAN/CSA C22.2 No 601.1 and NFPA current leakage limits Power system complies with EMI limits of FCC Part 15 Class A
	<b>Product Safety Certificate Holder</b>	Ergotron
	<b>Liquid Ingress Rating (per IEC 60529 standard)</b>	IPX0

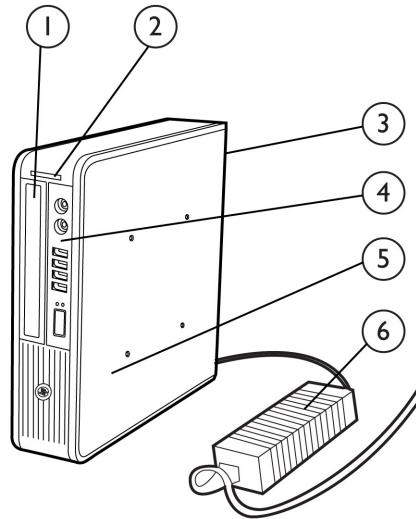


## Chart Cart Specifications

	<b>Operating Life</b>	Lift Engine: 15,000 cycles Monitor Arm: 10,000 cycles Brake Engagement: 30,000 cycles
<b>HP Factory Integrated Equipment</b>	<b>Monitor</b>	HP Compaq LE19f 19-inch WLED Backlit LCD Monitor
	<b>Desktop PC</b>	HP Compaq 6005 USDT Pro Business PC
	<b>Keyboard</b>	HP USB PS2 Washable Keyboard
	<b>Mouse</b>	HP USB PS2 Washable Mouse
	<b>Other Accessories</b>	HP LCD Monitor Quick Release Mount
<b>Product Documentation and Accessory Kits</b>	Product Set-Up Guide and User Manual, StyleLink Software Installation CD*	
	* StyleLink Software is optional, and purchased separately	
<b>Product Weight &amp; Dimensions</b>	<b>Product Weight (cart-only)</b>	129 lb (58.5 kg)
	<b>Product Weight (integrated)</b>	158 lb (71.1 kg)
	<b>Product Dimensions* (cart-only) (HxWxD)</b>	61.5 x 19.75 x 17 in (1562 x 502 x 533 mm)
	<b>Ground Clearance (floor to base)</b>	40 mm
	<b>Base Dimensions</b>	15.5 x 17-inches (from center of casters)
	*Depth dimension is based on wheel-to-wheel base dimension	
<b>Packaging &amp; Shipping Specifications</b>	<b>Shipping Weight (incl. pallet)</b>	208 lb (94.3 kg)
	<b>Shipping Dimensions* (HxWxD)</b>	24 x 32 x 56 in (61 x 81 x 142 cm)



## HP Compaq 6005 Pro USDT



1. Optical Disc Drive
2. Optional Secure Digital (SD) Card Reader
3. Rear I/O: (6) USB 2.0 ports, DisplayPort and VGA video interfaces, PS/2 mouse and keyboard ports, RJ-45 network interface, audio in/out jacks
4. Front I/O: (4) USB 2.0 ports, dedicated headphone output, and a microphone/headphone jack
5. (1) 2.5" internal hard disk drive bay
6. 135W 87% efficient external Power Adapter

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<b>Operating System</b>	<b>Preinstalled</b>	Genuine Windows 7 Professional Edition (32-bit) <sup>1</sup>
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**NOTE:** Windows XP Mode, available as a separate download for Windows 7 Professional, works with virtualization software such as Windows Virtual PC to run older Windows XP business software on the Windows 7 desktop.

<sup>1</sup>System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

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<b>Chipset</b>	AMD 785G chipset
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<b>Processor</b>	<b>AMD Athlon II X2 B24 Processor</b> 3.0 GHz, 2-MB L2 cache
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## HP Compaq 6005 Pro USDT

### DDR3 Synchronous DRAM NON-ECC System Memory

Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations. The HP Compaq 6005 Pro Series PC supports non-ECC DDR3 PC3-10600 (1333 MHz) and PC3-8500 (1066 MHz) memory.

**CAUTION:** You must shut down the computer and disconnect the power cord before adding or removing memory modules. Regardless of the power-on state, voltage is always supplied to the memory modules as long as the computer is plugged in to an active AC outlet. Adding or removing memory modules while voltage is present may cause irreparable damage to the memory modules or system board.

**Memory Configurations** 2GB (1x 2GB) standard, upgradeable to 8GB of DDR3 SDRAM using SO-DIMM modules. Slot 1 is black and must always be populated. Not all memory configurations possible are represented below. **NOTE:** For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.

Total Memory	Slot	
	Channel A (black)	Channel B (white)
2 GB	2 GB	

**Graphics** Integrated ATI Radeon HD 4200 Graphics; featuring a Side Port memory interface for 128-MB of dedicated frame buffer DDR3 memory with a device width of x16 for the integrated graphics engine

**Storage**

**Data Storage Drives**  
HP 160-GB 2.5" Hard Disk Drive, 7,200 rpm, 8MB cache, 3.0 GB/s, NCQ, Smart IV

**Optical Disc Drives**  
Slimline DVD-ROM Drive<sup>1</sup>  
Tray-load SuperMulti DVD LightScribe Burner  
Read: 8x max DVD-ROM, 24x max CD-ROM  
Write: 8x max DVD±R, 6x max DVD±R DL, 8x max DVD+RW,  
6x max DVD-RW, 5x max DVD-RAM, 24x max CD-R,  
24x max CD-RW  
<sup>1</sup> For playing DVDs, Corel WinDVD 8

**Security Solutions and Capabilities** Trusted Platform Module (TPM) 1.2<sup>1</sup>  
Stringent Security (via BIOS)<sup>2</sup>  
SATA Port Disablement (via BIOS)  
Drive Lock  
USB enable/disable (via BIOS) Power-On Password (via BIOS)  
Setup Password (via BIOS)  
<sup>1</sup>TPM module disabled where use is restricted by law; for example, Russia.  
<sup>2</sup>This setting is defaulted to disable, but when enabled, the PW jumper will not clear the BIOS pre-boot authentication passwords.





## HP Compaq 6005 Pro USDT

Communication Devices HP 802.11 b/g/n Wireless NIC mini PCIe Card

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I/O Ports	<b>USB 2.0</b>	Front – four (4) ports Rear – six (6) ports
	<b>Parallel</b>	N/A
	<b>eSATA</b>	N/A
	<b>PS/2</b>	color coded support for keyboard (purple) and mouse (green)
	<b>Video</b>	VGA and DisplayPort provide integrated dual independent monitor support
	<b>Audio</b>	Front – microphone & headphone Rear – line input (supports microphone or line input), line out <i>Note:</i> <a href="#">See Audio/Visual section for information on re-taskable audio ports.</a>
	<b>NIC</b>	Industry standard RJ-45 port accesses the integrated network interface controller

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<b>Multi-Media</b>	High Definition Audio with Realtek ALC261 codec (all ports are stereo) Microphone/Headphone* and dedicated headphone front ports Line-out and Line-In rear Ports* Multi-streaming capable* Internal Speaker (standard)  <i>* The front microphone port is re-taskable as a Line-in, Microphone-in or Headphone-in port. Rear audio input ports are re-taskable as a Line-in or Microphone-in port. External speakers must be powered externally. Multi-streaming can be enabled in the Realtek control panel to allow independent audio streams to be sent to/from the front and rear jacks. This allows for different audio applications to use separate audio ports on the system. For example, the front jacks could be used with a headset for a communications application while the rear jacks are being used with external speakers and a multimedia application.</i>
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<b>Slots</b>	<b>Mini PCI Express</b>	1 each
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<b>Bays</b>	<b>Slim</b>	1 each
	<b>Internal HDD Bays</b>	1 each 2.5" drives

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<b>Controller</b>	<b>Hard Drive Controller</b>	Serial ATA Supports SATA 1.5-GB/s and 3.0-GB/s
	<b>Host SATA Controller</b>	Advanced Host Controller Interface (AHCI) Revision 1.2. The specification includes a description of the hardware/software interface between system software and the host controller hardware.
	<b>SATA Interfaces</b>	(2) SATA

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## HP Compaq 6005 Pro USDT Technical Specifications

Weights and Dimensions (configured with 1 HDD and 1 ODD)	Chassis (H x W x D)	2.6 x 9.9 x 10 in 66 x 252 x 254 mm
	System Volume	257.5 cu in 4.2 L
	Tower Stand (H x W x D)	1.1 x 4.9 x 6.7 in 27 x 125 x 170 mm
	Packaging (H x W x D)	8.6 x 15.7 x 19.7 in 218 x 398 x 500 mm
	System Weight	6.8 lb 3.1 kg

### Unit Environment and Operating Conditions

#### General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.

**Temperature Range**                      Operating: 50° to 95° F (10° to 35° C)\*  
Non-operating: -22° to 140° F(-30° to 60° C)

**Relative Humidity**                      Operating: 10% to 90% (non-condensing at ambient)  
Non-operating: 5% to 95% (non-condensing at ambient)

**Maximum Altitude  
(unpressurized)**                      Operating: 10,000 ft (3048 m)  
Non-operating: 30,000 ft (9144 m)

\*Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.



## HP Compaq 6005 Pro USDT Technical Specifications

Power Supply	High Efficiency	135W active PFC 87% efficient
	Operating Voltage Range	90 – 264 VAC
	Rated Voltage Range	100 – 240 VAC
	Rated Line Frequency	50/60 Hz
	Operating Line Frequency Range	47 – 63 Hz
	Rated Input Current	N/A
	Rated Input Current with Energy Efficient* Power Supply	2.4A
	Current Leakage (NFPA 99)	< 250 $\mu$ A
	Power Supply Fan	N/A
	External Power Adapter	
	Dimensions	6.7 x 2.6 x 1.5 in
	Total Cord Length	12 ft 8 in

\*High efficiency power supply is a requirement for ENERGY STAR qualification in conjunction with a select range of processors and modules

### ROM BIOS Information Key features of the HP BIOS include:

- Deployment and manageability – HP BIOS provides several technologies that help integrate the HP Compaq 6005 Pro Series PC into the enterprise, such as PXE, remote configuration, remote control, and F10 Setup support for 12 languages.
- Stability – HP BIOS supports the HP stable product roadmap by releasing only critical BIOS changes to the factory and advanced change notification.
- Computrace agent – For tracking and tracing services, available in select countries, separate software and purchase of a subscription is required.
- Thermal and power management – The HP BIOS provides and enables thermal and power management technologies so component temperatures are managed for high reliability and to assist in operating the HP business PC in any enterprise environment.
- Acoustic performance – Industry leading acoustic emissions across the range of operating conditions.
- Serviceability – HP BIOS provides diagnostic and detailed service information.
- Upgrades and recovery – HP BIOS provides numerous ways to upgrade HP Business Desktop computers, including BIOS updates from within DOS (Flashbin), BIOS updates from within Windows (HPQFlash), HP Client Manager, and fail-safe recovery. In addition, the HP Business Desktop BIOS Utilities tool enables replicated BIOS setup throughout the Enterprise; it is available from within the BIOS software and from the support website.

### Additional HP BIOS Features

- Power-On password – Helps prevent an unauthorized user from powering on the system.
- Administrator password – Also known as the setup password, this helps prevent unauthorized changes to the system configuration. If the administrator password is not known, the BIOS version cannot be changed and changes cannot be made to BIOS settings using F10 setup or under the OS.



## HP Compaq 6005 Pro USDT Technical Specifications

- Advanced Configuration and Power Interface (ACPI) – Represents a significant innovation in power and configuration management, allowing operating systems and applications to manage power based on activity and usage. HP Elite models use ACPI to provide power conservation features.
- S5 Max Power Savings setting supports EU Lot6 requirement and allows the computer to power down below 1W in S5 (when turned off). When S5 Max Power Savings feature is enabled power to slots is turned off along with WOL functionality.

### Other Features

- Advanced Configuration and Power Management Interface (ACPI). Allows the system to wake from a low power mode. Controls system power consumption, making it possible to place individual cards and peripherals in a low-power or powered-off state without affecting other elements of the system.
- System Management BIOS v2.6
- Dual State Power Button; acts as both an on/off button and a suspend-to-sleep button

### Serviceability Features of System

- Dual colored power LED on front of computer to indicate either normal or fault condition
- Diagnostic LED Explanation Table

# of 1 second blinks followed by a 2 second pause; then repeats	Event Description
2	Processor thermal protection activated
3	Processor not installed
4	Power supply failure
5	Memory error
6	Video error
7	PCA failure (ROM detected failure prior to video)
8	Invalid ROM, bootblock recovery mode
9	System not fetching code
10	System hand while loading an option ROM

- System/Emergency ROM
- Flash ROM
- CMOS Battery Holder for easy replacement
- Flash Recovery with Video Configuration Record Software
- 5 Aux Power LED on System PCA
- Processor ZIF Socket for easy Upgrade
- Over-Temp Warning on Screen (Requires IM Agents)
- Clear Password Jumper
- DIMM Connectors for easy Upgrade
- Clear CMOS Button
- NIC LEDs (integrated) (Green & Amber)
- Dual Color Power and HD LED - To Indicate Normal Operations and Fault Conditions
- Color coordinated cables and connectors
- Tool-less Hood Removal
- Front power switch
- System memory can be upgraded without removing the system board or any internal components
- Tool-less Hard Drive, CD & Diskette Removal



## HP Compaq 6005 Pro USDT Technical Specifications

- Green Pull Tabs, and Quick Release Latches for easy Identification

Additional Features	Description	Description
	DASH 1.1 support (Desktop and Mobile Architecture for System Hardware)	A standards initiative for representing out-of-band management capability for computer systems. It is a secure, web-services based successor to ASF.
	ASF 2.0 support (Alert Standard Format)	Industry-standard specification for network alerting in operating system-absent environments
	Computrace	Computrace agent support standard
	Drive Lock	Implementation of the industry standard ATA Security feature set. When enabled, it prevents software access to user data on the drive until one or two user-defined passwords are provided.
	Drive Protection System	DPS Access through F10 Setup during Boot A diagnostic hard drive self test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and needs to be replaced The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain types of failures
	SMART Technology (Self-Monitoring, Analysis and Reporting Technology)	A standards initiative for representing out-of-band management capability for computer systems. It is a secure, web-services based successor to ASF.
	SMART I – Drive Failure Prediction	Allows hard drives to monitor their own health and to raise flags if imminent failures were predicted
	SMART II – Off-Line Data Collection	Predicts failures before they occur. Tracks fault prediction and failure indication parameters such as re-allocated sector count, spin retry count, calibration retry count
	SMART III -- Off-Line Read Scanning with Defect Reallocation	By avoiding actual hard drive failures, SMART hard drives act as "insurance" against unplanned user downtime and potential data loss from hard drive failure
	SMART IV – End-to-End CRC for hard drives	IOEDC: I/O Error Detection Circuitry Detects errors in Read/Write buffers on HDD cache RAM Interface in F10 setup provides confirmation of SMART IV support.



Display: HP LE1901w 19-inch Widescreen LCD Monitor

Panel	Type	19-in (48.14-cm) Wide-Aspect Active Matrix TFT (thin film transistor)
	Viewable Image Area (diagonal)	19 in (48.14 cm) wide (WXGA+); diagonally measured
	Screen Opening (W x H)	16.1 x 10.0 in (40.82 x 25.52 cm)
	Panel Type	TN
	Aspect Ratio	16:10
	Viewing Angle (typical)	Up to 160° horizontal/160° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	250 nits (cd/m <sup>2</sup> )
	Contrast Ratio (typical)*	1000:1
	Response Time (typical)*	=5 ms (on/off)
	Pixel Pitch	.2835 mm
	Backlight Lamp Life (to half brightness)	50 K hours
	Color Gamut	72%
	<i>*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.</i>	
On Screen Display (OSD) Controls	Buttons or Switches	Auto adjust/OSD down, OSD UP, OSD menu select, power
	Languages	English, French, German, Spanish, Italian, Dutch, and Japanese, S. Chinese, Portuguese
	User Controls	Brightness, contrast, positioning, color temperature (6500k, 9300k, custom), individual color control, serial number, display, clock, clock phase, monitor management, factory reset, zoom
Signal Interface/ Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	1440 x 900 @ 60 Hz
	Preset VESA Graphic Modes (non-interlaced)	1280 x 1024 @ 60 Hz
		1280 x 960 @ 60 Hz
		1024 x 768 @ 60 Hz
		800 x 600 @ 60 Hz
		640 x 480 @ 60 Hz
	CVT Mode	1152 x 720 @ 60 Hz
		1280 x 768 @ 60 Hz
	Text Mode	720 x 400 @ 70 Hz
	Maximum Pixel Clock Speed	140 MHz (analog input)
User Programmable Modes	Yes, 15	
Anti-Glare	Yes	
Anti-Static	No	



Display: HP LE1901w 19-inch Widescreen LCD Monitor

	Default Color Temperature	6500 K		
Video/Other Inputs	Plug and Play	Yes		
	Self Powered USB 2.0 Hub	No		
	Input Signal	VGA		
	Input Impedance	75 ohms ± 10%		
	Sync Input	TTL separate synch or Composite Sync		
	VGA Cable	15 pin D-sub VGA		
	VGA Cable Length	5.9 ft (1.8 m)		
Power	Input Power	Auto-Sensing, 90 to 265 VAC		
	Frequency	45 to 63 Hz		
	Typical Power Consumption	20 watts		
	Maximum	23 watts		
	Power Saving	< 2 watts standby; 1 watt off		
	Power Cable Length	6.2 ft (1.9 m)		
Mechanical	Dimensions (H x W x D)	Head only	11.9 x 17.6 x 2.3 in (30.1 x 44.6 x 5.9 cm)	
	Weight	Head only	8.8 lb (4.0 kg)	
Environmental	Temperature – Operating	-29° to 140° F (-34° to 60° C)		
	Temperature – Non-operating	-4° to 140° F (-20° to 60° C)		
	Humidity – Operating	20% to 80% non-condensing		
	Humidity – Non-operating	5% to 95%, 38.7° C max wet-bulb		
	Altitude – Operating	+0 to 16,404 ft (5000 m)		
	Altitude – Non-operating	+40,000 ft (12,192 m)		
Environmental Data	Eco-Label Certifications and 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:		
		<ul style="list-style-type: none"> <li>● ENERGY STAR®</li> <li>● IT ECO declaration</li> <li>● EPEAT™ Silver</li> </ul>		
	Energy Consumption (in accordance with ENERGY STAR® test method)	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz	AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz
	Normal Operation	18.42W	18.36W	18.80W
	Sleep	0.52W	0.55W	0.51W
	Off	0.45W	0.43W	



Display: HP LE1901w 19-inch Widescreen LCD Monitor

Heat Dissipation*	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz	AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz
Normal Operation	63 BTU/hr	63 BTU/hr	64 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 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.

## Certification and Compliance

TCO 5.0 Displays, ISO 9241-307, CISPR Requirements, VCCI Approvals, KC and KCC (Korean) Requirements, CSA 60950-1, UL 60950-1, EN55022 Class B, CNS 13438 Class B, IEC 60950-1, China Energy Label (CEL), China MEPS, Korea MEPS (pending, Energy Boy), SmartWay - NA only - Energy logistics, EUP Lot 6 Tier 1 AS/NZS 3548 Class B Approval, "GS" Mark, TUV Approvals, GEEA, CE Marking, FCC Part 15 class B Approval, ENERGY STAR® qualified, EN55024 Class B, EN60950 - 1, CUL, CCIB, CCEE, IT ECO (EDS), EPEAT™ Silver





## Input/Output Devices - Keyboard and Mouse

HP USB/PS2 Washable Keyboard	<b>Physical characteristics</b>	Keys	104 (US) Layout, 105 (EU) layout -- depending upon country	
		Dimensions (L x W x H)	17.67x 6.62 x 1.38 in (449 x 168 x 35 mm)	
		Weight	1.7 lb (0.77 kg) minimum	
	<b>Electrical</b>	Operating voltage	+ 5VDC ±5%	
		Power consumption	50-mA maximum (with three LEDs ON)	
		System interface	USB Type A plug connector	
		ESD	CE level 4, 15-kV air discharge	
		EMI - RFI	Conforms to FCC rules for a Class B computing device	
		<b>Mechanical</b>	Microsoft® PC 99 - 2001	Functionally compliant
			Keycaps	Stepped -profile design
	Switch actuation		55-g nominal peak force with tactile feedback	
	Switch life		20 million keystrokes	
	Switch type		Contamination-resistant switch membrane	
	Key-leveling mechanisms		For all double-wide and greater-length keys	
	Cable length		7 ft (2.2 m)	
	<b>Environmental</b>	Microsoft PC 99 - 2001	Mechanically compliant	
		Acoustics	43-dBA maximum sound pressure level	
		Operating temperature	50° to 122° F (10° to 50° C)	
		Non-operating temperature	-4° to 149° F (-20° to 65° C)	
		Operating humidity	10% to 95% (non-condensing at ambient)	
		Non-operating humidity	0% to 95% (non-condensing at ambient)	
		Operating shock	40 g, six surfaces	
		Non-operating shock	80 g, six surfaces	
		Operating vibration	2-g peak acceleration	
		Non-operating vibration	4-g peak acceleration	
	<b>Operating system support</b>	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence	
		Drop (in box)	42 in (107 cm) on concrete, 16-drop sequence	
<b>Approvals</b>	Operating system support	Windows® 7, Windows Vista, Windows XP Professional		
	Approvals	UL, cUL, FCC, CE, TUV GS, VCCI, BSMI, C-Tick, KCC, USB-IF, WHQL, EN/IEC 60601-1, IP66/NEMA4X		
<b>Ergonomic compliance</b>	Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS		
	Kit contents	Keyboard with USB cable, USB-to_PS2 adapter, Quick disconnect cable with extension to lengthen your cable, I/O Security Software & Documentation CD including the safety and comfort guide, warranty card		

HP USB/ PS2 Washable Dimensions (H x L x W) 1.56 x 2.44 x 4.61 in (3.95 x 6.21 x 11.7 cm)



## Input/Output Devices - Keyboard and Mouse

### Scroll Mouse

<b>Weight</b>	4.44 oz (126 g)
<b>Environmental</b>	<b>Operating temperature</b> –32° to 104°F (0° to 40° C) <b>Non-operating temperature</b> –4° to 140°F (–20° to 60° C) <b>Operating humidity</b> 10% to 90% (non-condensing at ambient) <b>Non-operating humidity</b> 10% to 90% non-condensing <b>Operating shock</b> 40 g, 6 surfaces <b>Non-operating shock</b> 80 g, 6 surfaces <b>Operating vibration</b> 2 g peak acceleration <b>Non-operating vibration</b> 4 g peak acceleration <b>Drop (out of box)</b> 80 cm height onto asphalt tile over concrete or equivalent, 5-drop in 5 direction except the cable face
<b>Electrical</b>	<b>Operating voltage</b> 5 VDC ± 10% <b>Power consumption</b> 100mA <b>System consumption</b> PS/2 mini-din connector or USB <b>ESD</b> CE level 2 8 kV air discharge <b>EMI-RFI</b> Conforms to FCC rules for a Class B computing device  <b>Microsoft® PC99 – 2001</b> Functionally compliant
<b>Mechanical</b>	<b>Resolution</b> 1000 ± 20% DPI <b>Tracking speed</b> 14 in/s ( 35.56 cm/s) maximum <b>Acceleration</b> 2 g <b>Switch actuation</b> 70 g nominal peak force <b>Switch life</b> 3,000,000 operations (using Hasco modified tester)  <b>Switch type</b> Low force micro-switches <b>Cable length</b> 8.8 ft total 70 cm+ 2m extension <b>Microsoft PC99 – 2001</b> Mechanically compliant
<b>Scroll wheel</b>	<b>Width</b> 6 mm <b>Diameter</b> 1 in (25.4 mm) <b>Maximum rotation speed</b> 48 rats/sec <b>Switch type</b> Light force micro-switch <b>Switch life</b> 3 million operations <b>Mechanical life</b> Minimum 200,000 revolutions
<b>Regulatory approvals</b>	<b>Compliant</b> FCC, CE Mark, ICES-003-B, IP66/NEMA4X
<b>Compatibility</b>	<b>Operating system support</b> Windows 7, Windows Vista Business 64*, Windows Vista Business 32*, Windows Vista Home Basic 32*, Windows 2000, Windows XP Professional or Windows XP Home 32* (No driver is required for this device. Native support is



## Input/Output Devices - Keyboard and Mouse

provided by the operating system.), xpe, ce.net, Linux, XP-64

\* Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <http://www.windowsvista.com/upgradeadvisor>. For Windows Vista system requirements, visit: <http://www.windowsvista.com/systemrequirements>.

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