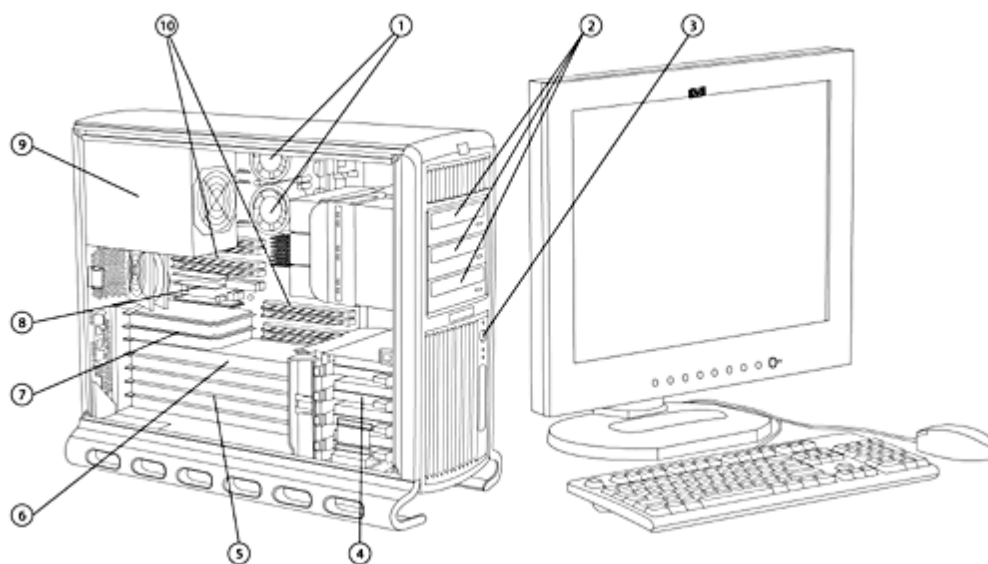


Overview



- | | |
|-----------------------------------|-------------------------|
| 1. Processor(s) | 6. Four full-length PCI |
| 2. Three 5.25" Optical drive bays | 7. Two half-length PCI |
| 3. On/Off Button | 8. 2-Way Motherboard |
| 4. Hard disk drives | 9. Power supply |
| 5. One full-length AGP 8x Slot | 10. Memory DIMMs |

At A Glance

- Up to two HP PA-8900 dual core processor modules (2-way standard; 4-way optional)
 - 2 or 4-way 1.0 GHz PA-8900 with 3.0 MB L1 cache (1.5MB per core)
 - 2 or 4-way 1.0 GHz PA-8900 with 3.0 MB L1 cache (1.5 MB per core) and 64 MB shared L2 cache
 - 2 or 4-way 1.1 GHz PA-8900 with 3.0 MB L1 cache (1.5 MB per core) and 64 MB L2 cache
- HP zx1 chipset with 400 MHz system bus
 - 6.4 GB/s effective processor bandwidth
 - 8.6 GB/s memory bandwidth
 - 3.5 GB/s I/O bandwidth
- 80 ns memory access latency
- Enterprise-class operating systems: HP-UX 11i v1
- ECC PC2100 DDR-266 memory, expandable to 32 GB
- Four Internal 3 1/2 inch drive bays; up to 1.2TB of SCSI or 160GB IDE hard drive storage
- Integrated 10/100/1000 Mbps Base-T Ethernet
- AGP 8X Pro 150 watts max power graphics interface
- Six PCI slots*
- Three external bays 5 1/4 inch drive bays
- DVD-ROM, DVDRW or CD-RW Optical Drive
- Full Independent Software Vendor (ISV) certification and support for leading technical applications
- Protected by HP Services, including a one-year limited warranty. Certain restrictions and exclusions apply.

NOTE: Accessory card slots have various configurations. See details in "Standard Features" area.

Standard Features

| | | |
|---------------------------|--|--|
| Processor | Up to two 2-way (dual core) HP PA-8900 processor modules (1.0 or 1.1 Ghz) | |
| Operating System | HP-UX 11i version 1 TCOE (Technical Computing Operating Environment) HP-UX 11i version 1 MTOE (Minimal Technical Operating Environment) | |
| Cache Memory | 3.0 MB L1 on-chip cache (1.5 MB per processor core) PA-8900 – 64 MB L2 cache (optional shared) | |
| Memory | Maximum of 32 GB ECC PC2100 DDR-266 memory (8 DIMMs) | |
| Network Controller | Integrated 10/100/1000 Mbps Base-T Ethernet | |
| Removable Storage | 48X/32X/48X CD-RW Drive 16X/48X DVD-ROM with +R and –R Read 16X DVD+RW Drive | |
| Expansion Slots | I/O (Total) | Seven available slots |
| | PCI – 32-bit/33 MHz | 2 half-length 3.3V 32-bit/33 MHz PCI |
| | PCI – 64-bit/33 MHz | 1 full-length 3.3V 64-bit/33 MHz PCI |
| | PCI – 64-bit/66 MHz | 2 full-length 3.3V 64-bit/66 MHz PCI-X |
| | PCI – 64-bit/133 MHz | 1 full-length 3.3V 64-bit/133 MHz PCI-X |
| | AGP 8X Pro | 1 slot – 150W |
| Expansion Bays | (Total/Available) | 7 total/7 available |
| | Internal | Four 3.5-inch bays |
| | External | Three accessible 5.25-inch bays |
| Storage | Removable Media | DVD-ROM, DVD+RW, or CD-RW Drive |
| | Hard Drive | 80 GB Ultra/ATA100 IDE Drive (7200 rpm) 73, 146 or 300 GB Ultra320 SCSI (10K rpm) 73 GB Ultra 320 SCSI (15K rpm) |
| | Drive Controller(s) | Integrated Ultra320 SCSI controller Integrated Ultra/ATA100 IDE controller |

Standard Features

| | | |
|-------------------|-------------------|---|
| Interfaces | USB 1.1 | Five (2 front, 3 rear) |
| | Serial | Two 9-pin DIN connectors (rear) |
| | Ultra320 SCSI | Internal and optional external (rear) connector |
| | Network interface | One RJ-45 connector (rear) |
| | Microphone Jack | 1 (optional audio card) |
| | Line-In Jack | 1 (optional audio card) |
| | Line-Out Jack | 1 (optional audio card) |

| | |
|---|----------------------------------|
| Graphics – One of the following | ATI FireGL T2-128 (dual display) |
| | ATI FireGL X3-256 (dual display) |

| | |
|--------------|---|
| Audio | 16-bit stereo full-duplex – uses half-length slot (optional card) |
|--------------|---|

| | |
|----------------------|--|
| Input Devices | HP 104/105 key keyboard, available in 21 localized layouts |
| | HP three-button optical mouse |
| | HP three-button optical scroll mouse |
| | HP SpaceBall 3D Input Device |
| | HP SpaceMouse 3D Input Device |
| | HP SpacePilot 3D Input Device |

| | |
|---------------------|---------------------|
| Power Supply | 650W maximum output |
|---------------------|---------------------|

| | |
|----------------------------|--|
| Service and Support | Standard limited warranty: 1-year, next business day, onsite |
| | Hardware support upgrades available: 3 Years Next Business Day Onsite, 3 Years Same Business Day Onsite, and 3 Years 24 x7 Onsite. |
| | NOTE: Certain restrictions and exclusions apply. Consult the customer support center for details. |

Configure-to-order Options (custom configurations)

When buying a basic system, you have many configuration options. Base System includes Ultra320 SCSI, 10/100/1000BT LAN, 2 serial, 5 USB, 1 AGP-8X slot, 3 PCI slots, 3 PCI-X slots, and all required power cords. Base system does not include processor, RAM, disks or graphics.

HP c8000 Workstation base system Processor 2-way 1.0 GHz PA-8900 with 3 MB L1 cache (1.5 MB per processor core)
2-way 1.0 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache
2-way 1.1 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache

Second Processor 2-way 1.0 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache
2-way 1.1 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache

Operating System HP-UX 11i version 1 TCOE (Technical Computing Operating Environment)
HP-UX 11i version 1 MTOE (Minimum Technical Operating Environment)

Graphics Card ATI FireGL T2-128 (128MB, dual display, AGP 8X)
ATI FireGL X3-256 (256 MB, dual display, AGP 8X)

Memory 1 GB PC2100 DDR-266 SDRAM memory kit (2x512MB DIMMs)
2 GB PC2100 DDR-266 SDRAM memory kit (2x1GB DIMMs)
4 GB PC2100 DDR-266 SDRAM memory kit (2x2GB DIMMs)
8 GB PC2100 DDR-266 SDRAM memory kit (2x4GB DIMMs)

Monitors HP L1955 19-inch TFT Flat Panel Display - Analog/Digital
HP LP2065 20-inch TFT Flat Panel Display - Analog/Digital
HP LP2465 24-inch TFT Widescreen Flat Panel Display (1920x1200 resolution)

Internal hard disks (minimum 1) **Ultra320 SCSI Drives** (max. 4)
73 GB Ultra320 SCSI 10,000 rpm
146 GB Ultra320 SCSI 10,000 rpm
300 GB Ultra320 SCSI 10,000 rpm
73 GB Ultra320 SCSI 15,000 rpm
UltraATA IDE Drives (max. 2)
80 GB Ultra/ATA100 IDE Drive (7200 rpm)

Storage Controllers External Ultra320 SCSI Connector Option
Ultra320 SCSI Adapter for HP-UX, 2-channel
Fibre Channel Adapter, 2GB, for HP-UX

Configure-to-order Options (custom configurations)

Optical Drive 16X DVD-ROM Drive
 16X DVDRW Drive
 48X CD-RW Drive

**Rack and Tower
Options** Workstation Rack Kit
(must order 1) Workstation Tower Kit

After-Market Options/Standalone Accessories

| | | |
|--|---|---------|
| Operating Systems | HP-UX 11i version 1 TCOE (Technical Computing Operating Environment) | B6821AA |
| | HP-UX 11i version 1 MTOE (Minimal Technical Operating Environment) | B6845AA |
| 2nd Processor | 2-way 1.0 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache | AB675A |
| | 2-way 1.1 GHz PA-8900 with 3 MB L1 cache and 64 MB L2 cache | AB676A |
| NOTE: The second processor must be the same as the first. | | |
| Memory (DDR-SDRAM) | 1 GB (2 x 512 MB) PC2100 DDR SDRAM Upgrade Kit | A8087B |
| | 2 GB (2 x 1 GB) PC2100 DDR SDRAM Upgrade Kit | A8088B |
| | 4 GB (2 x 2 GB) PC2100 DDR SDRAM Upgrade Kit | A8089B |
| | 8 GB (2 x 4 GB) PC2100 DDR SDRAM Upgrade Kit | AB662A |
| NOTE: Memory sold in pairs. | | |
| Graphics | ATI FireGL T2-128 (128 MB, dual display, AGP 8X) | AB638A |
| | ATI FireGL X3-256 (256 MB, dual display, AGP 8X) | AB668A |
| Optical Drives | 48X CD-RW Drive | A8683B |
| | 16X DVD-ROM Drive | A8682B |
| | 16X DVDRW Drive | AB615A |
| Hard Drives | Ultra320 SCSI Drives (max. 4) | |
| | 73 GB Ultra320 SCSI 10,000 rpm | AB628A |
| | 146 GB Ultra320 SCSI 10,000 rpm | AA614A |
| | 300 GB Ultra320 SCSI 10,000 rpm | AB663A |
| | 73 GB Ultra320 SCSI 15,000 rpm | A7214B |
| | UltraATA IDE Drives (max. 2) | |
| | 80 GB Ultra/ATA100 IDE Drive (7200 rpm) | AB680A |
| | Conversion Kit | |
| SCSI Cable Conversion Kit; IDE to SCSI | AB640A | |
| IDE Cable Conversion Kit; SCSI to IDE | AB641A | |
| Storage Controllers | Ultra320 SCSI Adapter for HP-UX, 2-channel | A7173A |
| | PCI 2GB Fibre Channel Adapter | A6795A |
| | External SCSI Cable Connector | AB642A |
| | (enables 68-pin high density SCSI connector on rear panel of workstation) | |

After-Market Options/Standalone Accessories

| | | |
|--|--|---------|
| Backup Devices | HP DAT40i Internal DDS4 tape drive | C5686B |
| | HP DAT40e External DDS4 tape drive | C5687C |
| | HP DAT72i Internal DAT72 tape drive | Q1522A |
| | HP DAT72e External DAT72 tape drive | Q1523A |
| | HP Ultrium 232 Tape Drive Internal | DW064A |
| | HP Ultrium 232 Tape Drive External | DW065A |
| Communications | 1000BaseTX PCI LAN Adapter for HP-UX (Available OD1 only. For field add-on/standalone, use A6825A) | A6825A |
| | 1000BaseSX (Fibre) PCI LAN Adapter for HP-UX | A6847A |
| | PCIX 4-Port 1000 Base-TX LAN Adapter | AB545A |
| | PCI 2GB Fiber Channel Adapter | A6795A |
| | 8-Port Serial MUX Adapter | A6748A |
| | 2-Port Serial Adapter | AD278A |
| Software Applications and Compilers | HP C++/ANSI C Developers Bundle | B9007AA |
| Rack Options | c8000 Tower to Rack Conversion Kit | AB626A |
| | c8000 Rack to Tower Conversion Kit | AB625A |
| Input Devices | Keyboard Kit, USB, PC-104/105, Carbon black – Includes USB keyboard and 3-button mouse. Must choose localization option | A4983D |
| | USB scroll mouse | 064 |
| | Delete keyboard | 053 |
| | Spaceball 5000, Serial Interface | AB602A |
| | SpaceMouse, Serial Interface | AB677A |
| | HP SpacePilot USB 3D Input Device (Americas) | AB681A |
| | HP SpacePilot USB 3D Input Device (EMEA, APJ) | EF390AA |
| Other | System C13 power cord only | A4199A |
| | System C13 and monitor C13 power cords | A4199B |
| | Remote Workstation Receiver Software Module | DM498A |

After-Market Options/Standalone Accessories

Monitors

| | |
|---|---|
| HP L1955 19-inch TFT Flat Panel Display - Analog/Digital | PD974A5 (Americas) |
| HP LP2065 20-inch TFT Flat Panel Display - Analog/Digital | EF227A5 (Americas) EF227A4 (EMEA, APJ) |
| HP LP2465 24-inch TFT Widescreen Flat Panel Display | EF224A5 (Americas) EF224A4 (EMEA, APJ) |

NOTE: [AssetControl](#) features are accessible with HP workstations featuring Intelligent Manageability.

Memory

ECC Registered PC2100 DDR-266 memory

Memory must be installed in pairs of the same size. Memory upgrade kits come in pairs.

This chart does not represent all possible memory configurations. Peak bandwidth: up to 8.5 GB/s.

MINIMUM MEMORY

1 GB (2 x 512 MB)

MAXIMUM MEMORY

32 GB (8 x 4 GB)

| Memory | | Slot 0A | Slot 0B | Slot 1A | Slot 1B | Slot 2A | Slot 2B |
|---------|-------|---------|---------|---------|---------|---------|---------|
| Minimum | 1 GB | 512 MB | 512 MB | | | | |
| Maximum | 32 GB | 4 GB | 4 GB | 4 GB | 4 GB | 4 GB | 4 GB |
| Memory | | Slot 3A | Slot 3B | | | | |
| Minimum | 1 GB | | | | | | |
| Maximum | 32 GB | 4 GB | 4 GB | | | | |

Storage

Drive Bay Locations



Drive Support

| | Quantity Supported | Position Supported | Controller |
|---|-------------------------------|--------------------|---|
| Optical Drives | | | |
| DVD-ROM Drive | Up to 2 | 1, 2, 3 | Integrated EIDE |
| CD-RW Drive | Up to 2 | 1, 2, 3 | Integrated EIDE |
| DVDRW Drive | Up to 1 | 1, 2, 3 | Integrated EIDE |
| Maximum 3 Optical Drives supported. | | | |
| Hard Drives | | | |
| Ultra320 SCSI Drives | | | |
| 1-inch | Up to 4 | 4, 5, 6, 7 | 68-pin interface connector plus four-pin standard power connector |
| 73 GB Ultra320 SCSI (10K rpm) | | | |
| 146 GB Ultra320 SCSI (10K rpm) | | | |
| 300 GB Ultra320 SCSI (10K rpm) | | | |
| 73 GB Ultra320 SCSI (15K rpm) | | | |
| UltraATA IDE Drives | Up to 2 | 4, 5, 6, 7 | NOTE: This configuration reduces the number of optical drives supported to a maximum of two. |
| 80 GB Ultra/ATA100 IDE Drive (7200 rpm) | | | |
| Maximum Storage Capacity | 1.2 TB (SCSI) 160 GB (IDE) | | |

Technical Specifications

| | | | |
|--------------------|--|--|----------------------------------|
| System Unit | Tower Dimensions | Height | 19.3 in (490.2 mm) |
| | | Depth | 22.5 in (571.4 mm) |
| | | Chassis Width | 8.0 in (203.2 mm) |
| | | Pedestal Width | 11.3 in (287.0 mm) |
| | Weight (tower configuration) | Minimum Tower Configuration | 49.5 lb (22.5 kg) |
| | | Maximum Tower Configuration | 62.5 lb (28.3 kg) |
| | Rack Dimensions (HxWxD) | Chassis Height | 8.0 in (203.2 mm) |
| | | Front Panel Height | 8.6 in (219.0 mm) |
| | | Depth | 22.4 in (568.9 mm) |
| | | Chassis Width | 16.7 in (424.2 mm) |
| | | Front Panel Width | 19.0 in (482.6 mm) |
| | EIA Units | 5U (8 units possible per 2 meter rack) | |
| | Weight (rack configuration) | Minimum Rack Configuration | 48.3 lb (21.9 kg) |
| | | Maximum Rack Configuration | 61.3 lb (27.8 kg) |
| | Power Supply | Input current (auto-ranging) | 8.7A max @ 100V, 4.4A max @ 200V |
| | | Line Frequency | 50 - 60 Hz |
| | | Maximum Power Input | 650 W |
| | Temperature | Operating | 41° to 95° F (5° to 35° C) |
| | | Non-operating | -4° to 158° F (-20° to 70° C) |
| | Maximum Altitude (non-pressurized) | Operating | 10,000 ft (3,048 m) |
| Non-operating | | 15,000 ft (4,572 m) | |

Technical Specifications - Controllers and Hard Drives

| | | |
|---|------------------------------------|---|
| Ultra320 Embedded Dual Channel SCSI Controller | Number of supported devices | 15 per channel |
| | Interface protocol | Supports Fast, Ultra, Ultra2, Ultra160 and Ultra320 |
| | Host bus transfer rate | Up to 320 MB/s |
| | SCSI data transfer rate | Up to 320 MB/s |
| | Bus width | 64-bit |
| | Internal connectors | Two 68-pin high density LVD SCSI |
| | External connector | Optional 68-pin HD SCSI - 16-bit SE or LVD |

| | | | | | |
|--|-----------------------------|--|-----------------------------|-----------------------|--|
| Ultra320 SCSI Hard Drives | 73 GB | Capacity | 73,407,865,856 bytes | | |
| | | Height | 1.0 in (2.5 cm) | | |
| | | Width | 3.5 in (8.9 cm) | | |
| | | Interface | 68 pin LVD SCSI | | |
| | | Synchronous Transfer Rate (Maximum) | 320 MB/s | | |
| | | Buffer | 8 Mbytes | | |
| | | Seek Time (typical reads, includes controller overhead, including settling) | Single Track | 0.3 msec | |
| | | | Average | <4.5 msec | |
| | | | Full-Stroke | <11.0 msec | |
| | | Rotational Speed | 10,000 rpm | | |
| | | Logical Blocks | 143,374,738 | | |
| | | Operating Temperature | 40° to 130° F (5° to 55° C) | | |
| | | 146 GB | Capacity | 146,815,737,856 bytes | |
| | | | Height | 1.0 in (2.5 cm) | |
| | | | Width | 3.5 in (8.9 cm) | |
| Interface | 68-pin LVD SCSI | | | | |
| Synchronous Transfer Rate (Maximum) | 320 MB/s | | | | |
| Buffer | 8 Mbytes | | | | |
| Seek Time (typical reads, includes controller overhead, including settling) | Single Track | | 0.3 msec | | |
| | Average | | <4.5 msec | | |
| | Full-Stroke | | <11.0 msec | | |
| Rotational Speed | 10,000 rpm | | | | |
| Logical Blocks | 286,749,488 | | | | |
| Operating Temperature | 40° to 130° F (5° to 55° C) | | | | |

Technical Specifications - Controllers and Hard Drives

| | | | | |
|------------------------------|--|-----------------------|------------|--|
| 300 GB | Capacity | 300,000,000,000 bytes | | |
| | Height | 1.0 in (2.5 cm) | | |
| | Width | 3.5 in (8.9 cm) | | |
| | Interface | 68-pin LVD SCSI | | |
| | Synchronous Transfer Rate (Maximum) | 320 MB/s | | |
| | Buffer | 8 Mbytes | | |
| | Seek Time (typical reads, includes controller overhead, including settling) | Single Track | 0.3 msec | |
| | | Average | <4.5 msec | |
| | | Full-Stroke | <11.0 msec | |
| | Rotational Speed | 10,000 rpm | | |
| | Logical Blocks | 585,937,500 | | |
| Operating Temperature | 40° to 130° F (5° to 55° C) | | | |

| | | | | |
|------------------------------|--|----------------------|-----------|--|
| 73 GB | Capacity | 73,407,865,856 bytes | | |
| | Height | 1 in (2.5 cm) | | |
| | Width | 3.5 in (8.9 cm) | | |
| | Interface | 68 pin LVD SCSI | | |
| | Synchronous Transfer Rate (Maximum) | 320 MB/s | | |
| | Buffer | 8 Mbytes | | |
| | Seek Time (typical reads, includes controller overhead, including settling) | Single Track | 0.3 msec | |
| | | Average | <3.5 msec | |
| | | Full-Stroke | <9.0 msec | |
| | Rotational Speed | 15,000 rpm | | |
| | Logical Blocks | 143,374,738 | | |
| Operating Temperature | 40° to 130°F (5° to 55° C) | | | |

| | | | | | |
|---------------------------|--------------|--|-----------------------------|---------|--|
| ATA/100 Hard Drive | 80 GB | Capacity | 80 GB | | |
| | | Dimensions (H x W) | 1.0 x 3.5 in (2.5 x 8.9 cm) | | |
| | | Interface | Ultra ATA/100 | | |
| | | Synchronous Transfer Rate (Maximum) | 100 MB/s | | |
| | | Seek Time (typical reads, includes controller overhead, including settling) | Single Track | 0.8 ms | |
| | | | Average | 11.0 ms | |
| | | | Full-Stroke | 19.0 ms | |
| | | Rotational Speed | 7,200 rpm | | |
| | | Logical Blocks | 156,301,488 | | |
| | | Operating Temperature | 41° to 131°F (5° to 55°C) | | |

Technical Specifications - Graphics

| | | |
|--|---|---|
| ATI FireGL T2-128 Graphics Card | Form Factor | ATX |
| | Graphics Controller | ATI FGL 9600 Visual Processing Unit (VPU) |
| | Bus Type | AGP 8X Version 3.0 compliant |
| | DAC | Dual 400 MHz/10-bit per component |
| | Memory | 128-MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage |
| | Connectors | DVI-I and VGA monitor outputs |
| | Slots required | Occupies 1 physical slot in the system |
| | Dimensions | Single AGP/ATX card. 9.07 x 4.25 in (230.28 x 107.96 mm) |
| | Multi-monitor support | DVI-I and DB-15 connectors support dual display, maximum HP-UX supported resolution of single display 1920 x 1200, maximum dual display 2560 x 1024 |
| | Additional product features | 128-MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage 64-KB BIOS Serial Flash ROM, reprogrammable by SW, 3.3V only, no Jumpers 2D and 3D acceleration provided for 16-bit and 32-bit RGB models Hardware cursor with full color alpha channel 32-bit (24+8-bit stencil) Z buffer Bus mastering support for 2D/3D display lists and local memory vertex list execution Hardware lighting support for 8 light sources Bilinear and Trilinear texturing Cubic Environment Mapping Projective Texture and 3D Texture support Full Scene Anti-Aliasing (FSAA) support with up to 6 subsamples Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications |
| | AGP 4x/8x Version 3.0 compliant including: | Sideband Addressing AGP Texturing (Execute Mode) AGP Read and AGP Write Support 8X Fast write support |
| | FGL 9600 GPU featuring: | VGA controller supporting full standard feature set 2D Engine with 128-bit datapath processing multiple pixels per clock PIXEL TAPESTRY III, 3D rendering engine utilizing 2 parallel pipelines with two texture blending units each capable, of handling up to 8 texels in a single pass, delivering 2.4 Gigatexels/s fill rate CHARISMA ENGINE III, geometry unit utilizing 4 vertex processing engines, capable of executing two instructions per clock cycle each, thus yielding up to 200 million transformed, clipped and lit triangles per second. Dual independent display controllers with 4K x 4K address space each 128-bit external frame buffer interface |
| | Supported graphics APIs | OpenGL 1.2 with immediate mode support for all OGL primitive types |
| | Available graphics drivers | HP-UX - see: http://www.hp.com/workstations/support NOTE: This Web site is available in English only. |

Technical Specifications - Graphics

| | | |
|--|---|--|
| ATI FireGL X3-256 Graphics Card | Form Factor | ATX |
| | Graphics Controller | ATI FireGL Visual Processing Unit (VPU) |
| | Bus Type | AGP 4x/8x Version 3.0 compliant |
| | RAMDAC | Dual 400 MHz/10-bit per component |
| | Memory | 256-MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage |
| | Connectors | Dual DVI-I analog/digital monitor outputs |
| | Slots required | Occupies 1 physical slot in the system |
| | Dimensions | Single AGP/ATX card. 9.07 x 4.25 in (230.28 x 107.96 mm) |
| | Multi-monitor support | Maximum HP-UX supported resolution of single display 1920 x 1200 analog or digital. Maximum dual display 3840 x 1200. |
| | Additional product features | <p>256-MB DDR SDRAM unified frame buffer, Z-buffer and Texture storage</p> <p>64-KB BIOS Serial Flash ROM, reprogrammable by SW, 3.3V only, no Jumpers</p> <p>2D and 3D acceleration provided for 16-bit and 32-bit RGB modes</p> <p>Hardware cursor with full color alpha channel</p> <p>32-bit Z buffer, 8-bit stored alpha and 8-bit Stencil planes</p> <p>Bus mastering support for 2D/3D display lists and local memory vertex list execution</p> <p>Hardware lighting support for up to 8 lights</p> <p>Bilinear and Trilinear texturing</p> <p>Cubic Environment mapping</p> <p>Projective Texture and 3D Texture support</p> <p>Full Scene Anti-Aliasing (FSAA) support with up to 6 subsamples</p> <p>Per pixel quad buffering on all screen resolutions</p> <p>VESA compliant Stereoscopic Interface on MiniDin Connector</p> <p>Video Timings compliant with VESA DMT 1.0 and VESA GTF 1.0 specifications</p> <p>DDC2B+ Monitor support</p> |
| | AGP 4x/8x Version 3.0 compliant including: | <p>Sideband Addressing</p> <p>AGP Texturing (Execute Mode)</p> <p>AGP Read and AGP Write Support</p> <p>8X Fast write support</p> |
| | FGL Parallel Processing VPU featuring: | <p>VGA controller supporting full standard feature set</p> <p>256-bit external frame buffer interface providing memory bandwidth of 22 GB per second</p> <p>6 parallel geometry engines, 12 parallel pixel pipelines, 128-bit full floating point precision</p> <p>Programmable pixel and vertex shaders with 16 textures per pass</p> <p>2X/4X/6X full scene anti-aliasing modes</p> |
| | Supported graphics APIs | OpenGL 1.2 with immediate mode support for all OGL primitive types |

Technical Specifications - Monitors

| | | | | |
|--------------------------------------|--|---|--|--|
| HP L1955 Flat Panel Monitor | Panel | Type | Active matrix, thin film transistor (TFT) | |
| | | Viewable Image Area (diagonal) | 19 in (48.25 cm) maximum viewable | |
| | | Screen Opening (WxH) | 14.9 x 12.0 in (38.0 x 30.5 cm) | |
| | | Viewing Angle (typical) | 176 degrees horizontal/176 degrees vertical (10:1 minimum contrast ratio) | |
| | | Brightness (typical) | Up to 250 nits (cd/m ²) | |
| | | Contrast Ratio (typical) | Up to 1000:1 (typical) | |
| | | Response Rate (typical) | <16 ms (typical rise + fall) | |
| | | Pixel Pitch | 0.294 mm | |
| | | Video/Other Inputs | Plug and Play | Yes (supports VESA DDC2B; PC2001 compliant) |
| | | | Self Powered USB 2.0 Hub | One upstream, four downstream ports (cable included) |
| Input Signal | Two connectors: one 15-pin mini D-sub analog VGA; and one DVI-I (VGA analog or digital) | | | |
| Input Impedance | 75 ohms ± 2% | | | |
| Sync Input | Separate sync (HSYNC/VSYNC); composite sync, Sync on Green (activated through on-screen display) | | | |
| Video Cable | VGA to VGA, DVI-D to DVI-D, and DVI-I to VGA | | | |
| Video Cable Length | 78 in (2.0 m) | | | |
| Signal Interface/ Performance | Horizontal Frequency | | 30 to 82 kHz | |
| | Vertical Frequency | | 56 to 75 Hz | |
| | Native Resolution | | 1280 x 1024 @ 75 Hz analog 1280 x 1024 @ 60 Hz digital | |
| | Maximum Resolution (Analog) | 1280 x 1024 @ 75 Hz analog | | |
| | Maximum Resolution (Digital) | 1280 x 1024 @ 75 Hz digital | | |
| | Preset VESA Graphic Modes (non-interlaced) | 640 x 480 @ 60 Hz, 72 Hz, 75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz, 72 Hz, 75 Hz 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz 1280 x 1024 @ 60 Hz, 75 Hz | | |
| | Preset MAC Mode | 832 x 624 @ 75 Hz 1152 x 870 @ 75 Hz | | |
| | Preset VGA Mode | 640 x 480 @ 60 Hz, 72 Hz | | |
| | Preset SUN Mode | 1152 x 900 @ 76 Hz | | |
| | Fail Safe Mode | Yes (limits out of range signal messages) | | |
| Maximum Pixel Clock Speed | 140 MHz | | | |

Technical Specifications - Monitors

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|---|----------------------------------|---|
| | User Programmable Modes | Yes, 15 |
| | Anti-Glare | Yes |
| | Anti-Static | Yes |
| | AssetControl | Yes (accessible on HP Compaq Business Desktops featuring Intelligent Manageability) |
| | Default Color Temperature | Yes (6500k, 9300k, SRGB, Custom User) |
| On Screen Display (OSD) Controls | Buttons or Switches | Power on/off; 3-button OSD; second level OSD buttons include dual-input switch, dedicated auto adjust switch |
| | Languages | English, Spanish, French, German, Italian, Japanese, Simplified Chinese |
| | User Controls | Size and Positioning Contrast Brightness Clock, Clock Phase Selectable Color Temperature Serial Number Mode Displayed Sleep Timer Input Selection Factory Reset Individual Color Contrast Full-screen Resolution |
| Power | Power Supply | Auto-ranging, 90 to 265 VAC; internal power supply |
| | Input Power | 100 ~ 240 VAC |
| | Nominal Current | 1.5 A maximum |
| | Frequency | 50 ~ 60 Hz |
| | Average | 33 watts when displaying standard office software |
| | Typical Power Consumption | < 40 watts |
| | Maximum | < 60 watts |
| | Power Saving | < 2 watts |
| | Off Mode | 0 watts (when master power switch is in the off position) |
| | Power Cable Length | 70 in (1.8 m); non-captive |

Technical Specifications - Monitors

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| Mechanical | Dimensions (H x W x D) | Unpacked with stand 16.8 (minimum) to 22.3 (maximum) x 15.9 x 8.3 in (42.7 (minimum) to 56.6 (maximum) x 40.4 x 21.1 cm) |
| | | Base Area 8.3 x 12.2 in (Footprint D x W) (21.1 x 30.9 cm) |
| | | Panel only (without stand) (H x W x D) 13.2 x 15.9 x 3.1 in (33.5 x 40.4 x 7.9 cm) |
| | | Unpacked with stand 16.5 lb (7.5 kg) |
| | | Unpacked without stand 10.5 lb (4.75 kg) |
| | | Packaged 23.5 lb (10.7 kg) |
| | | Bezel Width 13 mm left and right, 14 mm top, and 15 mm bottom |
| | | Tilt Range -5° to +35° |
| | | Swivel Range ± 50° horizontal swivel |
| | | Height Adjustable Yes (5.1 in/13 cm adjustment range) |
| | | Pivot Rotation Yes, 90 ° |
| | | Base Ships detached and is removable after installation |
| | Environmental | Temperature – Operating |
| Temperature – Non-operating | | -4° to 140° F (-20° to 60° C) |
| Humidity – Operating | | 20% to 80% |
| Humidity – Non-operating | | 5% to 95% |
| Altitude – Operating | | 0 to 13,000 ft (0 to 4,000 m) |
| Altitude – Non-operating | | 0 to 40,000 ft (0 to 12,192 m) |
| Options | Desktop Access Center | Features integrated microphone/headset jacks, dual function headset for phone/PC support, a MultiBay slot for adding an optical drive (sold separately), and four USB ports for easy integration of third-party digital solutions. Sold separately; part number DK985A. For more information, refer to the HP Desktop Access Center QuickSpecs. |
| | HP Flat Panel Speaker Bar | Powered directly by the monitor, seamlessly attaches to the monitor's bezel to bring full multimedia support to select HP flat panel monitors. Features dual speakers with full sound range and external jack for headphones. Sold separately, part number PF804AA. For more information, refer to the HP Flat Panel Speaker Bar QuickSpecs. |

Technical Specifications - Monitors

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| Other | <p>Accessories Included VGA to VGA cable, DVI-D to DVI-D cable, DVI-I to VGA cable, USB cable, user CD-ROM with Pivot Pro software</p> <p>Software Pivot Pro software from Portrait Displays, Inc. interacts with your PC's native graphics driver to enable seamless portrait screen redraws with a simple mouse-click or keyboard command. Pivot Pro supports 90-degree portrait and landscape views. Language support is available in English, Japanese, French, German, Spanish, Italian, and Traditional and Simplified Chinese.</p> <p>Software HP Display LiteSaver feature lets you schedule Sleep mode at preset times to help protect the display against image retention, drastically lower power consumption and energy costs, and extend the lifespan of the monitor.</p> <p>User Guide Languages English</p> <p>Warranty Languages English</p> <p>Color Carbonite, two-tone carbonite and silver (EMEA only)</p> <p>VESA Mounting Yes (swing arm/wall mount not included); base must be removed for mounting options)</p> <p>VESA External Mounting Yes (standard 4 hole pattern, 100 mm)</p> <p>Kensington Lock-ready Yes</p> |
| Certification and Compliance | <p>Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, Energy Star Compliant, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 13406-2 Compliant (Pixel Defect Guidelines), Mexican NOM Approval, MPR-II Compliant, PC2001 Compliant, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 99 or 03 depending on region (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft® Windows® Certification</p> |
| Compatibility | <p>VESA Video Signal Standard (VSIS) Compliant video cards have been tested and proven compatible for use with the HP L1955 Flat Panel Monitor. Recommended for use with HP products.</p> |
| Service and Warranty | <p>Limited three-year parts and repair labor, service provider labor, and on-site service. Next Business Day advanced exchange direct replacement service available during warranty period. Certain restrictions and exclusions apply. For details, contact HP Customer Support.</p> |

| | | | |
|------------------------------------|--------------|--|--|
| HP L2065 Flat Panel Monitor | Panel | Type | 20-inch Active Matrix TFT (thin film transistor) |
| | | Viewable Image Area (diagonal) | 20.1 in (51 cm) |
| | | Screen Opening (W x H) | 16.2 x 12.17 in (41.1 x 30.9 cm) |

Technical Specifications - Monitors

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| | Viewing Angle (typical)* | Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio) |
| | Brightness (typical)* | Up to 300 nits (cd/m ²) |
| | Contrast Ratio (typical)* | Up to 800:1 |
| | Response Rate (typical)* | 8 ms (gray to gray), 16 ms (rise + fall) |
| | Pixel Pitch | 0.255 mm |
| | Backlight Lamp Life (to half brightness) | 45K hours |
| | *All specifications are provided by the component manufacturers. Performance specifications represent the highest specification of all HP's component manufacturers' typical level specifications for performance. Actual performance may vary either higher or lower. | |
| On Screen Display (OSD) Controls | Buttons or Switches | Input select, auto adjust/OSD up, OSD down, OSD menu select, power |
| | Languages | English, French, German, Spanish, Italian, Dutch, and Japanese |
| | User Controls | Brightness, contrast, positioning, color temperature, individual color control, serial number display, full screen resolutions, clock, clock phase, input selection, image control (including scaling), and factory reset |
| Signal Interface/ Performance | Horizontal Frequency | 30 to 94 kHz (VGA input); 30 to 92 KHz (DVI input for modes with pixel clock less than 157 MHz) |
| | Vertical Frequency | 48 to 85 Hz (VGA input); 30 to 92 Hz (DVI input) (for modes with pixel clock less than 162 MHz) |
| | Graphics Controller | Pixelworks PW171 |
| | Native Resolution | 1600 x 1200 @ 60 Hz, 75 Hz (analog input) |
| | Preset VESA Graphic Modes (non-interlaced) | 1280 x 1024 @ 60 Hz, 75 Hz, and 85 Hz |
| | | 1280 x 960 @ 60 Hz |
| | | 1152 x 900 @ 66 Hz |
| | | 1024 x 768 @ 60 Hz, 75 Hz, and 85 Hz |
| | | 800 x 600 @ 60 Hz, 85 Hz |
| | | 640 x 480 @ 60 Hz, 75 Hz, and 85 Hz |
| | Text Mode | 720 x 400 @ 70 Hz |
| | Mac Mode | 1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz |
| | Sun Mode | 1152 x 900 @ 66 Hz |
| | Maximum Pixel Clock Speed | 202 MHz (VGA input); 162 MHz (DVI input) |
| | User Programmable Modes | Yes, 10 |
| Anti-Glare | Yes | |
| Anti-Static | Yes | |
| Default Color Temperature | 6500 K | |

Technical Specifications - Monitors

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|---------------------------|---------------------------------|---|--|--|
| Video Input | Plug and Play | Yes | | |
| | Self Powered USB 2.0 Hub | One upstream, four downstream ports (cable included) | | |
| | Input Signal | Two DVI-I connectors (dual VGA analog or dual digital input possible) | | |
| | Input Impedance | 75 ohms \pm 10% | | |
| | Sync Input | Separate sync (HSYNC/VSYNC); composite sync, Sync on Green | | |
| | Video Cable | Two VGA to DVI-I; two DVI-D to DVI-I | | |
| | Video Cable Length | 5.9 ft (1.8 m) | | |
| | Power | Input Power | Auto-Ranging, 90 to 132 VAC and 195 to 265 VAC; internal power supply, 50 Hz/60 Hz | |
| | | Frequency | 47.5 to 63 Hz | |
| | | Typical Power Consumption | 55 watts (without USB ports); 70 watts (USB ports fully loaded) | |
| Maximum | | < 75 watts | | |
| Power Saving | | < 2 watts | | |
| Power Cable Length | | 5.9 ft (1.8 m) | | |
| Mechanical | Dimensions (H x W x D) | Unpacked w/stand | 16.7 to 21.8 x 17.4 x 8.67 in (42.5 to 55.5 x 44.3 x 22.0 cm) | |
| | | Unpacked w/o stand (head only) | 13.58 x 17.4 x 3.42 in (34.5 x 44.3 x 8.7 cm) | |
| | | Packaged | 11.77 x 22.2 x 16.77 in (29.9 x 56.4 x 42.6 cm) | |
| | Weight | Unpacked | With stand: 20.28 lbs (9.2 kg); Without stand: 12.65 lbs (5.75 kg) | |
| | | Packaged | 26.3 lb (11.95 kg) | |
| | Tilt Range | -5° to + 25° vertical tilt | | |
| | Swivel Range | -45° to + 45° | | |
| | Height Adjustable | Yes, range 5.1 in (13.0 cm) | | |
| | Pivot Rotation | Yes | | |
| | Base | Detachable, ships attached | | |

Technical Specifications - Monitors

| | | |
|----------------------|------------------------------------|--|
| Environmental | Temperature – Operating | 46° to 95° F (10° to 35° C) |
| | Temperature – Non-operating | 6° to 140° F (-10° to 60° C) |
| | Humidity – Operating | 20% to 80% non-condensing |
| | Humidity – Non-operating | 5% to 85% |
| | Altitude – Operating | +12,000 ft (3,657.6 m) |
| | Altitude – Non-operating | +40,000 ft (12,192 m) |
| | Options | HP Silver Flat Panel Speaker Bar - Part number: EE418AA |
| Other | Accessories Included | VGA to DVI-I cable - connects the graphic card's VGA connector to the monitor's input #1 or 2 (DVI-I analog) connector. |
| | | DVI-D to DVI-I cable - connects the graphic card's DVI-D digital connector to the monitor's input #1 or #2 (DVI-I digital) connector. |
| | Software | HP Display Assistant Utility makes it possible to adjust displays settings through the PC using two-way communication via DDCI. |
| | | HP Display Lite Saver allows ability to power up and down display at predetermined hours of the day to save power and backlight life. |
| | | Pivot Pro software from Portrait Displays, Inc. interacts with your PC's native graphics driver to enable seamless portrait screen redraws with a simple mouse-click or keyboard command. Pivot Pro supports 90-degree portrait and landscape views. Language support is available in English, Japanese, French, German, Spanish, Italian, and Traditional and Simplified Chinese. |
| | User Guide Languages | English |
| | Warranty Languages | English |
| | Color | Carbonite/Silver |
| | VESA External Mounting | Yes (Standard 4 hole pattern, 100 mm) |
| | Kensington Lock-Ready | Yes |

Technical Specifications - Monitors

| | |
|-------------------------------------|---|
| Certification and Compliance | Canadian Requirements/CSA, CE Marking, CISPR Requirements, , Energy Star Compliant, FCC Approval, ISO 13406-2 Pixel Defect Guidelines, Mexican NOM Approval,, MPR-II Compliant, PC2001 Compliant, PC99 Certified, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft® Windows® Certification (Microsoft® Windows® 98, Microsoft Windows 2000, and Microsoft Windows XP) |
| Compatibility | Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. |
| Service and Warranty | Three years parts, labor, and on-site service. 24-hour 365-day 1-800 technical support. Replacement options include 2nd business day on-site service or next business day direct replacement. With direct replacement, HP will ship a replacement display product directly to you. Using the shipping labels provided, return your failed display to HP. Certain restrictions and exclusions apply. For details, contact HP Customer Support. |

HP Flat Panel Monitor Panel LP2465

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|--|--|
| Type | 24-inch Active Matrix TFT (thin film transistor) |
| Viewable Image Area (diagonal) | 24 in (60.96 cm) |
| Screen Opening (W x H) | 20.47 x 12.83 in (52.0 x 32.6 cm) |
| Viewing Angle (typical)* | 178° H/ 178° V (10:1 minimum contrast ratio) |
| Brightness (typical)* | 500 nits (cd/m2) |
| Contrast Ratio (typical)* | 1000:1 |
| Response Rate (typical)* | 8 ms (typical gray to gray) |
| Pixel Pitch | 0.270 mm |
| Backlight Lamp Life (to half brightness) | 50K hours |

*Response time 13 ms rise and fall, 6 ms gray to gray.

On Screen Display (OSD) Controls

| | |
|----------------------------|--|
| Buttons or Switches | Input Select, Auto Adjust, OSD Up, OSD Down, OSD Menu Select, Power |
| Languages | English, French, German, Spanish, Italian, Japanese, Dutch |
| User Controls | Brightness, contrast, positioning, color temperature, individual color control, serial number display, full screen resolutions, clock, clock phase, input selection (includes separate direct access key for dedicated swap between inputs 1 and 2), factory reset |

Technical Specifications - Monitors

| | | | |
|--|---|--|--|
| Signal Interface/ Performance | Horizontal Frequency | 30 to 94 kHz (VGA input); 30 to 92 KHz (DVI input) (for modes with pixel clock less than 157 MHz) | |
| | Vertical Frequency | 48 to 85 Hz (VGA and DVI input) | |
| | Native Resolution | 1920 x 1200 @ 60 Hz (recommended) (native aspect ratio of 16:10) | |
| | Preset VESA Graphic Modes (non-interlaced) | 1920 x 1200 @ 60 Hz 1600 x 1200 @ 60 Hz, 75 Hz 1280 x 1024 @ 60 Hz, 75 Hz, 85 Hz 1280 x 960 @ 60 Hz 1152 x 900 @ 66 Hz 1024 x 768 @ 60 Hz, 75 Hz, 85 Hz 800 x 600 @ 60 Hz, 75 Hz 640 x 480 @ 60 Hz, 75 Hz | |
| | Text Mode | 720 x 400 @ 70 Hz | |
| | Mac Mode | 1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz | |
| | Sun Mode | 1152 x 900 @ 66 Hz | |
| | Maximum Pixel Clock Speed | 202 MHz (VGA input); 162 MHz (DVI input) | |
| | User Programmable Modes | Yes, 20 | |
| | Anti-Glare | Yes | |
| | Anti-Static | Yes | |
| | Default Color Temperature | 6500 K | |
| | Video/Other Inputs | Plug and Play | Yes |
| | | Self Powered USB 2.0 Hub | One upstream, four downstream ports (located on side of monitor, cable included) |
| Input Signal | | Two DVI-I (VGA analog and digital) inputs | |
| Input Impedance | | 75 ohms \pm 10% | |
| Sync Input | | Separate sync (HSYNC/VSYNC); composite sync, Sync on Green | |
| Video Cable | | VGA to DVI-I; DVI-D to DVI-D | |
| Video Cable Length | | 5.9 ft (1.8 m) | |
| Power | Input Power | Auto-Ranging, 90 to 132 VAC and 195 to 265 VAC; internal power supply, 50 Hz/60 Hz | |
| | Frequency | 47.5 to 63 Hz | |
| | Typical Power Consumption | 75 watts | |
| | Maximum | < 110 watts | |
| | Power Saving | < 2 watts | |
| | Power Cable Length | 6.2 ft (1.9 m) | |

Technical Specifications - Monitors

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|---------------------------------|-------------------------------|---|---|--------------------|
| Mechanical | Dimensions (H x W x D) | Unpacked w/ stand | 14.6 (min) to 19.7 (max) x 22 x 9.1 in (37.1 (min) to 50.1 (max) x 55.4 x 23.2 cm) | |
| | | Unpacked w/o stand (head only) | 14.4 x 22 x 3.7 in (36.6 x 55.84 x 9.2 cm) | |
| | | Packaged | 11.7 x 22.1 x 25.6 in (29.8 x 56.0 x 65.1 cm) | |
| | | Weight | Unpacked | 23.6 lbs (10.7 kg) |
| | | | Packaged | 23.6 lbs (10.7 kg) |
| | | Tilt Range | -5° to + 25° vertical | |
| | | Swivel Range | -45° to + 45° | |
| | | Height Adjustable | Yes, range 5.1 in (130 mm) | |
| | | Pivot Rotation | Yes | |
| | | Base | Detachable, ships detached | |
| | Environmental | Temperature – Operating | 46° to 95° F (10° to 35° C) | |
| | | Temperature – Non-operating | 6° to 140° F (-10° to 60° C) | |
| | | Humidity – Operating | 20% to 80% non-condensing | |
| Humidity – Non-operating | | 5% to 85% | | |
| Altitude – Operating | | +12,000 ft (3,657.6 m) | | |
| Altitude – Non-operating | | +40,000 ft (12,192 m) | | |
| Other | | Accessories Included | VGA to DVI-I cable - connects the graphic card's VGA connector to the monitor's input #2 (DVI-I analog) connector DVI-D to DVI-D cable - connects the graphic card's DVI-D digital connector to the monitor's input #2 (DVI-I digital) connector | |
| | Software | Pivot Pro software from Portrait Displays, Inc. interacts with your PC's native graphics driver to enable seamless portrait screen redraws with a simple mouse-click or keyboard command. Pivot Pro supports 90-degree portrait and landscape views. Language support is available in English, Japanese, French, German, Spanish, Italian, and Traditional and Simplified Chinese. HP Display Assistant is a software utility that allows monitor adjustment, color calibration, and security/asset management using the Display Data Channel Command Interface (DDC/CI) protocol of the connected desktop PC. | | |

Technical Specifications - Monitors

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|-------------------------------------|--|--|
| | | HP Display LiteSaver feature allows you to schedule Sleep mode at preset times to help protect the monitor against image retention, drastically lower power consumption and energy costs, and extend the lifespan of the monitor. |
| | User Guide Languages | English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish |
| | 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 |
| | Color | Carbonite/silver |
| | VESA External Mounting | Yes (Standard 4 hole pattern, 100 mm) |
| | Kensington Lock-Ready | Yes |
| Options | HP Silver Flat Panel Speaker Bar - Part number: EE418AA | Powered directly by the monitor or 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 an external jack for headphones. Sold separately. For more information, refer to the HP Flat Panel Speaker Bar QuickSpec. |
| Certification and Compliance | | Australian ACA Approval, Canadian Requirements/CSA, CE Marking, China CCIB/CCEE Approval, CISPR Requirements, Eastern European Approvals, Energy Star Compliant, FCC Approval, German Ergonomic (TUV and GS Mark), ISO 9241-3,7,8 VDT Guidelines, ISO 13406-2 Pixel Defect Guidelines, Mexican NOM Approval, MIC Requirements (New Zealand), MPR-II Compliant, Nordic Approvals (Nemko, Fimko, Demko, Semko), PC2001 Compliant, PC99 Certified, S. Korean MIC Approval, Taiwan BSMI Approval, TCO 03 (emissions, ergonomics, environment), TUV-Ergo, UL Listed, VCCI Approvals, Microsoft Windows Certification (Microsoft Windows 98, Microsoft Windows 2000, and Microsoft Windows XP) |
| Compatibility | | Compatible with platforms using the VESA standard video modes. Recommended for use with HP products. |
| Service and Warranty | | Three years parts, labor, and on-site service. 24-hour, 90-day, toll-free technical support. Replacement options may include second business day on-site service, or next business day direct replacement, at HP's sole discretion. With direct replacement, HP will ship a replacement display product directly to you. Using the prepaid shipping labels provided, return your failed display to HP in the same packaging as the replacement. Certain restrictions and exclusions apply. For details see your product warranty or contact HP Customer Support. |

Technical Specifications - Monitors

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