

PERQ

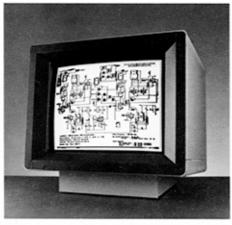
PERQ 2 Graphics Workstation Specification

System

Integrated system comprising

- □ Base unit containing processor, memory, I/O controller and Winchester-technology fixed disk.
- ☐ High performance graphics display.
- □ Graphics tablet with pointing device.
- □ Alphanumeric keyboard.

Designed as self-contained workstation to enhance productivity of professional personnel.

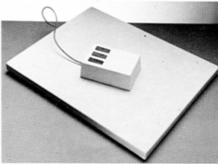












Processor

- ☐ Microprogrammed to optimize speed and memory usage for specific higher-order languages such as Pascal, 'C', etc.
- □ 4K or 16K words of user Writable Control Store.
- ☐ Bit-sliced 16 bit CPU with 170ns microcycle time.
- ☐ Hardware RasterOp bit-map manipulation, enabling bit-addressed raster-data to be moved at up to 32 Mbit/sec.
- 20 bit real address registers.
- □ Hardware diagnostics implemented via microcode with results displayed automatically.

Memory

- □ 512 Kbytes, 1 Mbyte or 2 Mbytes of MOS semiconductor RAM with parity checking.
- ☐ Memory cycles 64 bits every 680ns.
- □ Approximately 200 Mbits/sec
- aggregate memory bandwidth, shared equally between display and processor.
- □ Integrated memory/display controller.
- ☐ Screen bit-mapped directly from any area of memory.

Input/Output

- □ I/O controller (for high speed devices) multiplexes up to 6 simultaneous DMA channels at up to 10 Mbits/sec each; two DMA channels for user options.
- □ Dedicated microprocessor for low speed device control.
- □ Two RS232C interfaces: full duplex, synchronous/asynchronous serial data ports; speeds up to 9600 baud.
- ☐ GPIB interface: IEEE 488-1975 implementation of the General Purpose Instrumentation Bus.
- □ Speech output hardware.
- □ Ethernet™ Local Area Network interface (optional).
- □ PLP-10 Laser Printer interface (optional).

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Display □ Free-standing, raster-scanned, bit-mapped CRT. □ 60Hz non-interlaced refresh rate. □ P4 white tube phosphor. □ 100 dots/inch resolution. □ Hardware cursor user-definable up to 56 x 64 pixels. □ Direct bit-mapping from main memory. □ Maximum distance from base unit 8'. Portrait or landscape orientation Portrait □ 768 x 1024 pixels. □ Dimensions: Screen diagonal 13.75"; height 10.8"; width 8.25". Landscape □ 1280 x 1024 pixels. □ Dimensions: Screen diagonal 19"; height 11"; width 15". Keyboard □ Free-standing. □ Solid state. □ 84 keys (including numeric keypad and four user-definable function keys). □ ASCII character code. □ Maximum distance from display 8'.	Graphics tablet Variants: Tablet with mouse Completely flat surface. Active area 8.25" x 10.75". Electromagnetic operation. Three button mouse. Maximum distance from display 8'. Bitpad with puck GPIB interface. Active area 11" x 11". Magnetostrictive operation. 0.005" resolution. Four button puck. Maximum distance from base unit 8'. Fixed disk unit 8" Winchester-technology rigid disk. Up to 35.6 Mbytes formatted capacity. 3 platters, 5 surfaces, 5 heads. Rotational speed 3600 rpm. Average access time: 42 ms. Transfer rate: 920 Kbytes/sec. Average latency: 8.33 ms.	Floppy disk drive (optional) 8" double-sided, double-density, soft-sectored. 77 tracks/side, 26 sectors/track. 1 Mbyte formatted capacity. Rotational speed: 360 rpm. Transfer rate: 62.5 Kbytes/sec. Head load time: 50 ms. Settling time: 15 ms. Latency: 83.3 ms. Track to track seek: 3 ms. Average access time: 96 ms.
General information	Physical dimensions	

☐ Source: 115V.

□ Line frequency: 60 Hz.

Environment

☐ Operating temperature: 15° to 32°C.

□ Relative humidity: 20% to 80%.

Cabling

All necessary cables for the minimum configuration are supplied.

		Height inches	Width	Depth inches
Base unit	,	261/2	14%	26
Display	portrait	17¾	17¾	12¾
	landscape	1814	20	1814
Keyboard		134	19	81/2
Graphics tablet	tablet	1/2	81/4	10¾
	bit pad	9/16	151/2	151/2

For	further	in	forma	tion	cont	tact	
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