

HEWLETT-PACKARD

Return to
J. Moffett



The PORTABLE

Advance Copy

This is a full-function personal computer that adapts to your workstyle. With built-in solutions like 1-2-3™ from Lotus,™ MemoMaker, Personal Applications Manager (P.A.M.), and Terminal Emulation, most of the software you're ever likely to need is stored in ROM. You can't erase it, write over it, or lose it. At only 8½ pounds, *The PORTABLE* is ideal for the mobile professional. And it's no larger than a three-ring notebook, so *The PORTABLE* is the perfect companion for meetings. Your personal computer really doesn't have to be any bigger than this.

Aspects and Advantages

CMOS 8086 Microprocessor

Based on the industry standard. A wide variety of software has been developed for this architecture. It is a true 16-bit microprocessor as opposed to the 8/16-bit 8088, so it is much faster than the IBM PC or PCXT.

MS-DOS Operating System

By using this industry-standard operating system, *The PORTABLE* assures you of data-file compatibility with other MS-DOS computers, and an extensive range of available software.

Software in ROM

Software loaded into ROM means you can't ever lose it or accidentally erase it. Because the software operates out of ROM, and not RAM, you can use RAM for storing data, not programs. This is a more efficient use of user memory, and allows you to store larger data files without using an external disc drive. Execution speeds are also dramatically increased because the software is already loaded into the

machine. And, with 1-2-3™ from Lotus,™ MemoMaker, Terminal Emulation, and P.A.M. already loaded in ROM, practically every need can be filled—without buying any additional software. For one price you get *The PORTABLE* plus the some of the most popular software available.

Size

The size of *The PORTABLE* makes it the most convenient computer to use. You can use *The PORTABLE* in almost any situation, whenever and wherever you want to use it. The size allows *The PORTABLE* to fit your workstyle.

Built-in Help

Built-in help functions make *The PORTABLE* one of the easiest computers to use. Built-in help also increases the computer's portability, because you don't have to carry bulky documentation with you.

272K bytes of CMOS RAM

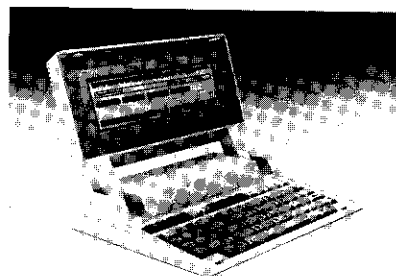
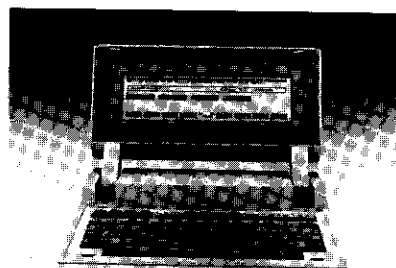
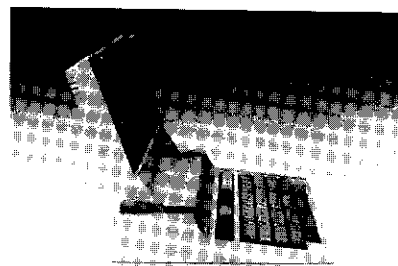
The CMOS RAM provides a continuous, built-in user memory for work in progress. There is ample storage for days of work. Since the memory is built into the computer, it is convenient, easy to use, and portable.

16-line by 80-character Liquid Crystal Display

The largest display available for a battery-powered portable gives you more room for spreadsheets, graphics and memos. The large LCD also makes it easier to use information services and the Terminal Emulation software.

300 Baud Rate Built-in Modem

The modem gives you access to other computers and information services around the country. Just plug a telephone in the back of *The PORTABLE*, and you're hooked-up with auto-dial capabilities.



Lead/Acid D-Cell Battery Pack

Lead/Acid batteries give you a long-lasting power supply with an even dissipation. This allows *The PORTABLE* to give you a constant, accurate account of battery-power remaining. The battery pack also gives you freedom from powercords. It lets you work where you want. Not just where you can plug it in.

Aspects and Advantages cont'd.

Software

Peripherals

Display TimeOut

Display TimeOut turns the display off after a user-specified period of time (30 seconds to 30 minutes) without a keystroke, contributing to the longest battery life of any portable. Long battery life means you don't need to worry about finding electrical outlets. You've got more than sixteen hours of computing time between recharges.

Battery Charge Indicator

Battery Charge Indicator allows you to use *The PORTABLE* without worrying about power loss. The percentage of power remaining is displayed on *The PORTABLE's* screen. When the batteries are low, *The PORTABLE* prevents data from being lost by switching the display off until the batteries are recharged.

Real-Time Clock

The real-time clock keeps the date and time even when the unit is off. The clock can help you keep track of appointments and activities. You can also organize and find files by name or by time and date.

The PORTABLE-Desktop Link

Sharing data files and peripherals with desktop computers like the HP 150 or IBM PC is easy with an optional plug-in card called "Portable-Desktop Link." The card equips desktop computers with both HP-IL cords and the software necessary to quickly transfer a memo or spreadsheet from

The PORTABLE to the desktop model or vice versa. Additionally, The Portable-Desktop Link software permits you to use a printer attached to the desktop computer as an output device for *The PORTABLE*.

Battery-Powered Peripherals

Battery-powered peripherals give you a complete, desktop system with briefcase portability. Computer, printer and disc drive all fit in a carrying case and weigh less than twenty pounds.

Software

Standard, or Built-in Software, stored in Read Only Memory (ROM)

MS-DOS version 2.11—operating system

Personal Applications Manager (P.A.M.)—system interface

1-2-3™ from Lotus™—spreadsheet, graphics and information management package

MemoMaker—word processor

Terminal Emulation—asynchronous, character mode data communications package supporting file transfer

Optional Software available soon on 3½ inch discs¹

Microsoft®/MultiPlan™—multi-purpose electronic spreadsheet

MicroPro WordStar®—word processing program

MicroPro MailMerge®—multipurpose file merging program

MicroPro SpellStar™—spelling checker for WordStar®

Ashton-Tate dBase II™—relational database management tool

Link Systems DataFax—electronic notebook

Link Systems DataLink PC—telecommunications software package

Series 100/BASIC—programming language

Microsoft® Compiled BASIC—programming language

Microsoft® Pascal—programming language

Programmers Tool Kit—programming aid

¹Check the monthly software list for availability of these and other software packages.

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Microsoft® is a U.S. registered trademark of Microsoft, Inc.

WordStar® and MailMerge® are U.S. registered trademarks of MicroPro International Corporation.

SpellStar™ is a U.S. trademark of MicroPro International Corporation.

1-2-3™ and Lotus™ are U.S. trademarks of Lotus Development Corporation.

dBASE™ II is a U.S. trademark of Ashton-Tate.

Peripherals

Mass Storage available from Hewlett-Packard

The *HP 9114A* Double-sided, 3½ inch, 710K byte capacity, battery-powered microfloppy disc drive

Printing Options from Hewlett-Packard

ThinkJet, the personal printer, ink-jet printer with HP-IL interface (HP 2225B)

The *HP 82905B* dot-matrix printer option 448 with HP-IL interface

The *HP 2932A* dot-matrix printer with RS-232 interface

The *HP 2934A* dot-matrix printer with RS-232 interface

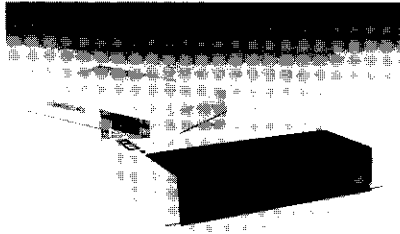
The *HP 2601A* daisywheel printer option 242 with RS-232 interface

The *HP 2602A* daisywheel printer with RS-232 interface

Graphics Plotters available from Hewlett-Packard

The *HP 7470A* two-pen graphics plotter Option 003 with HP-IL interface

Mass Storage Printing



The *HP 7470A* two-pen graphics plotter Option 001 with RS-232 interface

The *HP 7475A* six-pen graphics plotter Option 001 with RS-232 interface

Interfaces available from Hewlett-Packard

The *HP 82164A* HP-IL to RS232 Interface converter

The *HP 82169A* HP-IL to HP-IB Interface converter

Communications links available from Hewlett-Packard

The *HP 45643A* Parallel Printer/HP-IL interface card to tie-in *The PORTABLE* with your HP 150
The *HP 82873A* HP-IL interface card to tie-in *The PORTABLE* with your IBM PC.

Accessories available for The PORTABLE

Hayes Smartmodem 1200 high-speed modem
HP 13269L leather carrying case
HP 13269K system carrying case to hold computer, printer, and disc drive
Soft Carrying Case is included

Mass Storage

The *HP 9114A* portable micro-floppy disc drive

Media Type

Double-sided 3½-inch micro-floppy disc media (HP 92192A)

Memory Capacity

710K bytes formatted memory capacity
512 bytes per sector
9 Sectors per track
80 tracks per surface
2 recording surfaces per disc

Power Supply

User-installable 6-volt lead/acid battery pack
Battery recharger/eliminator

Battery Life

8 hours of power depending on duty cycle
Over 5 years of service life

Input/Output

Hewlett-Packard Interface Loop (HP-IL)

Transfer Rate

6K bytes per second maximum sustained transfer rate

Access Time

497 milliseconds average access time

Rotation Speed

600 revolutions per minute

Physical Characteristics

11½ inches wide by 8 inches deep by 3 inches high (29.2 cm by 20.6 cm by 7.5 cm)
5 pounds, 9 ounces (2.53 Kilograms)

Printing

The *ThinkJet* personal printer from Hewlett-Packard (HP 2225B)

Print Method

Ink-jet dot matrix

Speed

150 characters per second bidirectional, logic seeking

Buffer Size

1K byte

Power Source

Rechargeable Nickle-Cadmium (Ni-Cad) battery pack

Battery Life

200 pages of print per charge

Noise Level

Less than 50 decibels of sound pressure

Resolution

96 by 96 dots per inch or 192 by 96 dots per inch for graphics printing
11 by 12 dot character matrix for text printing

Print Pitches

12 characters per inch, 80 characters per line normal pitch
6 characters per inch, 40 characters per line expanded pitch
21.3 characters per inch, 142 characters per line compressed pitch
10.7 characters per inch, 71 characters per line expanded-compressed pitch

Print Modes

Boldface print
Underlined print

Character Sets

11 character sets in HP ROMAN8 including Danish, Dutch, English, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish

Physical Characteristics

11½ inches wide by 8 inches deep by 3½ inches high (29.2 cm by 20.6 cm by 8.9 cm)
5½ pounds (2.5 Kilograms)

Central Processing Unit/ Microprocessor

A CMOS* 8086, true 16-bit microprocessor running at 5.33 Megahertz clock rate

Memory

384K bytes of CMOS Read Only Memory (ROM)

8K bytes of CMOS Configuration and Serial Number ROM

272K bytes of CMOS Continuous, Static Random Access Memory (RAM)

8K bytes of Display Memory RAM

Display

16-line by 80-character Liquid Crystal Display (LCD)

128 by 480 pixel, bit-mapped graphics

Contrast controlled from keyboard
Adjustable viewing angle

Keyboard

A fully spaced, typewriter-style 75-key matrix with 8 special function keys

Power Supply

Three permanently installed, lead/acid D-cell batteries

One battery recharger/eliminator

Battery Life

16 hours of continuous use on a full charge

Continuous memory retained for 1 year while *The PORTABLE* is off

Over 5 years of service life

Physical Characteristics

13 inches wide by 10 inches deep by 2⁷/₈ inches high (32 cm by 25 cm by 7 cm)

8¹/₂ pounds (3.85 kilograms)

Input/Output

Hewlett-Packard Interface Loop (HP-IL)

Serial Interface (RS 232C V.24/V.28)

Modem

300 baud-rate direct connect modem

Auto answer and auto dial
Pulse and tone dial

System Clock

From January 1, 1980 to December 31, 2039

0.1 second resolution

Accuracy within two minutes per month

Alarm and appointment-keeping functions

Shock Resistance

100-g force on all six sides

Environmental Constraints

30° to 130° Fahrenheit (0° to 55° Celsius) while in storage

32° to 115° Fahrenheit (0° to 45° Celsius) while in operation

Electrical Interference

FCC Class B parts 15 and 68 certified and approved

Safety Approvals

UL Listed
CSA Certified

Other Approvals

Radio Technical Commission on Aeronautics (RTCA)

Docket 160A

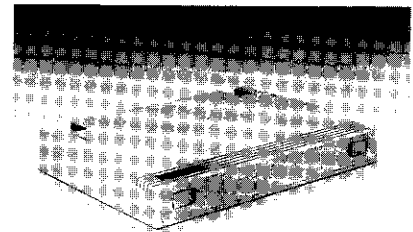
Section 21, Radiated Emission Levels for Computing Devices

Category B: 150 Khz to 30 Mhz

Category A/Z: 30 Mhz to 1.215 Qhz

(Proposal before Federal Aviation Administration regarding regulatory standard for use of computing devices on airlines)

*Complementary Metal Oxide Semiconductor—low-power-drain semiconductor technology.



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