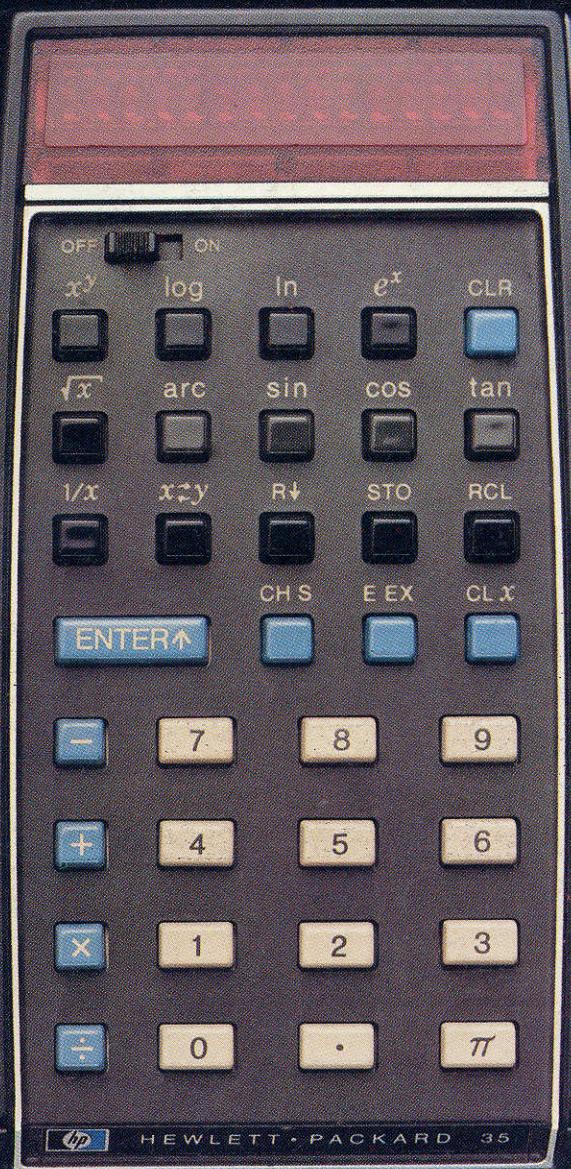


Personal
Computer
Products
Salutes
the Tenth
Anniversary
of the HP-35



Congratulations Hewlett-Packard on the tenth anniversary of the HP-35 introduction, the calculator that started an industry. This product and the enhancements that followed from Hewlett-Packard and their competitors have had such an immediate impact on problem solving for the individual in industry and education. Few products in this century have had such an impact on the individual in industry and education. Few engineers were able to discard their slide rules and in many cases stopped having to wait for computer products in this century have had such an impact on the individual in industry and education. Few educational institutions have revolutionized scientific and business and dramatic impact.

Hewlett-Packard's Objectives state that, "The success and prosperity of our company will be assured only if we offer our customer superior products that fill real needs and provide lasting value. . ." Time has proven that the HP-35 is a superior product that fills real needs and provides lasting value - a test of time that few products can claim.

Personal Computer Products would like to congratulate Bill Hewlett for his accomplishments in the realm of electronics. His personal contribution to the creation of a significant industrial corporation with Dave Packard has had an unparalleled impact on the presence in the marketplace that has had an impact on the many consumers of the Hewlett-Packard manufactures. Personal Computer Products, the professional calculator industry and the many consumers who have benefited from your products salute your innovation.

PRICE REDUCTIONS

Price changes were announced by Hewlett-Packard after the printing of this catalog. Please call for our new prices on the following items:

HP-125

Most flexible disc drives

82905 Printer

We regret any inconvenience this may cause; we are sure you will be pleased with our reduced prices.

PERSONAL COMPUTERS



On the following pages, you will find a very limited selection of personal computers. As this catalog is intended for the industrial/professional user, we have limited our selection to machines and manufacturers that we feel provide products for the business market. We would like to share our basic selection criteria with you.

The industrial/professional user sees a personal computer as a tool to be used in accomplishing one's primary job. The computer is simply a tool; it should not become the job. The individual user's experience may range from clerical to highly trained professional. The computer simply represents a more efficient, more accurate and more timely way of accomplishing one's primary duties.

A personal computer or any computer is a system: a system consisting of hardware,

software, peripherals, service and education. If any one of the components is missing, nothing works. We generally find that too much emphasis is placed on hardware, as if it were the only component. Hardware does not run without software, peripherals, service and education.

Hardware must be well designed allowing for enhancement without obsolescence as technology changes. It should be cosmetically appealing and reliable. Software should relate to the user's application and the hardware. It is not within the scope of the user we have defined to adapt or modify software.

The manufacturer must provide, as a basic minimum, the common peripherals—mass storage, printers and their appropriate interfaces. Interfacing various types of equipment can be highly technical, time consuming and sometimes impossible. Service options must allow the users to

depend on the system. If the tool is not dependable, it is doubtful that the system will prove profitable to the individual or company. An on-site service option is a must.

For personal computers, education means written documentation and training aids. The owner's manual and software documentation must be well written, clear, concise, interesting and informative. It must provide a basis for allowing the user to educate himself and become self-sufficient.

Shown above are some of the components of Hewlett-Packard's Series 80 System. A manufacturer that meets our requirements and we believe will meet yours.



Series 80 Hewlett-Packard's Series 80 personal computer family offers a system that is functional at present and is able to grow as technology and design provide increased capabilities. It must also be able to grow as your applications increase. The Series 80 is a system that allows logical expansion and enhancement without obsolescence. The professional is now being offered a personal computer system that can be developed based on user needs. As you will see on the following pages, the system is rapidly expanding in hardware and peripherals, firmware and software.

The family concept is centered around the HP-83 and HP-85 personal computers. These are functionally identical machines, except the HP-85 has a four inch wide, 32 character per line thermal printer; and a digital tape drive for 210K bytes of data storage. Because of the integrated design and a weight of only 20 pounds, the HP-85 is a

complete, truly portable computing system. If your particular applications will require greater mass storage and large format printing, you may want to use the HP-83 as the center of your system and realize a significant cost savings over the HP-85.

Both Series 80 computers have a five inch CRT display with crisp resolution for alphanumeric characters and graphic reproductions. The keyboard and 10 key numeric pad were designed with ease of use in mind. All keys have automatic repeat. Eight user definable keys provide latitude in program development as your programming abilities grow. The Series 80 contains an eight bit microprocessor. The internal memory consists of 16K RAM (Random Access Memory), which is expandable to 32K with the memory module; and 32K ROM (Read Only Memory). External 8K ROMs can be added with the ROM drawer which holds up to six enhancement ROMs. These external ROMs are important because they add to the power of the computer, but use very little RAM.

As powerful as the Series 80 personal

computers are by themselves, you may need to add hardware peripherals when your applications demand greater qualitative and quantitative output. Since we have allotted more individual pages to these peripherals, we will only summarize them here. The photograph on Page 3 is a representative configuration of Series 80. Beginning with the HP-85, you have a stand alone system with its display, thermal printer and the mass storage capability of the digital tape drive. As your needs expand, so does the system. The printer is added when you must have higher volume, full width printouts. The HP-85 printer can copy graphics from the CRT display, but adding the peripheral graphic plotter gives you greater plotting capabilities, including four color charts, graphs and transparencies of exceptional quality. And when you outgrow the 210K bytes provided by the tape drive, additional mass storage can be added by the disc drive systems providing up to almost five megabytes.



Firmware is another area of Series 80 growth without obsolescence. Interfacing becomes necessary when peripherals are added. The HP-IB Interface Module is the only interface needed for Series 80 peripherals.

External enhancement ROMs available at this time are Mass Storage, Plotter/Printer, I/O, Matrix, Advanced Programming, and Assembler. In some cases, as with Mass Storage, I/O and Plotter/Printer, the ROMs are necessary for using certain peripherals. The Matrix ROM adds speed and accuracy in handling one and two dimensional arrays. The Assembler ROM requires a high level of programming skill.

Series 80 design is placing a great deal of emphasis on software applications. The software is aimed at professionals and a major advantage is that you do not have to be a programmer to use it. Application pacs come with an instruction manual, tape and disc to lead you through specific programming steps. Pacs such as VisiCalc™ Plus, Graphics Presentations, Information Management

and Text Editing are some versatile software tools that aid you in computations, but also arrange your data for more meaningful and attractive presentation.

Hewlett-Packard is providing service for the Series 80 computer system with their own service organization. They offer both on-site and bench type maintenance agreements at reasonable prices. See page 22 for service recommendations.

Specifications

HP-83

Display

5 inch diagonal CRT
Alphanumeric, 32 characters per line
16 lines, 5 x 7 dot matrix

Graphics, 192 x 256 dot density

Console

CPU: Solid State, 8-bit microprocessor
Memory: RAM, 16K bytes, expandable to 32K bytes with memory module

ROM, Internal, 32K bytes
ROM, External, enhancement ROMs

Keyboard: Typewriter style with 8 user definable keys and 10 key numeric pad

HP-85

Same as the HP-83 with the following:

Printer: Thermal, moving head

4.3 inches wide

120 lines/minute

32 characters/line

Adjustable intensity

Tape Cartridge: 210K bytes of data

195K bytes of programs

42 files by name

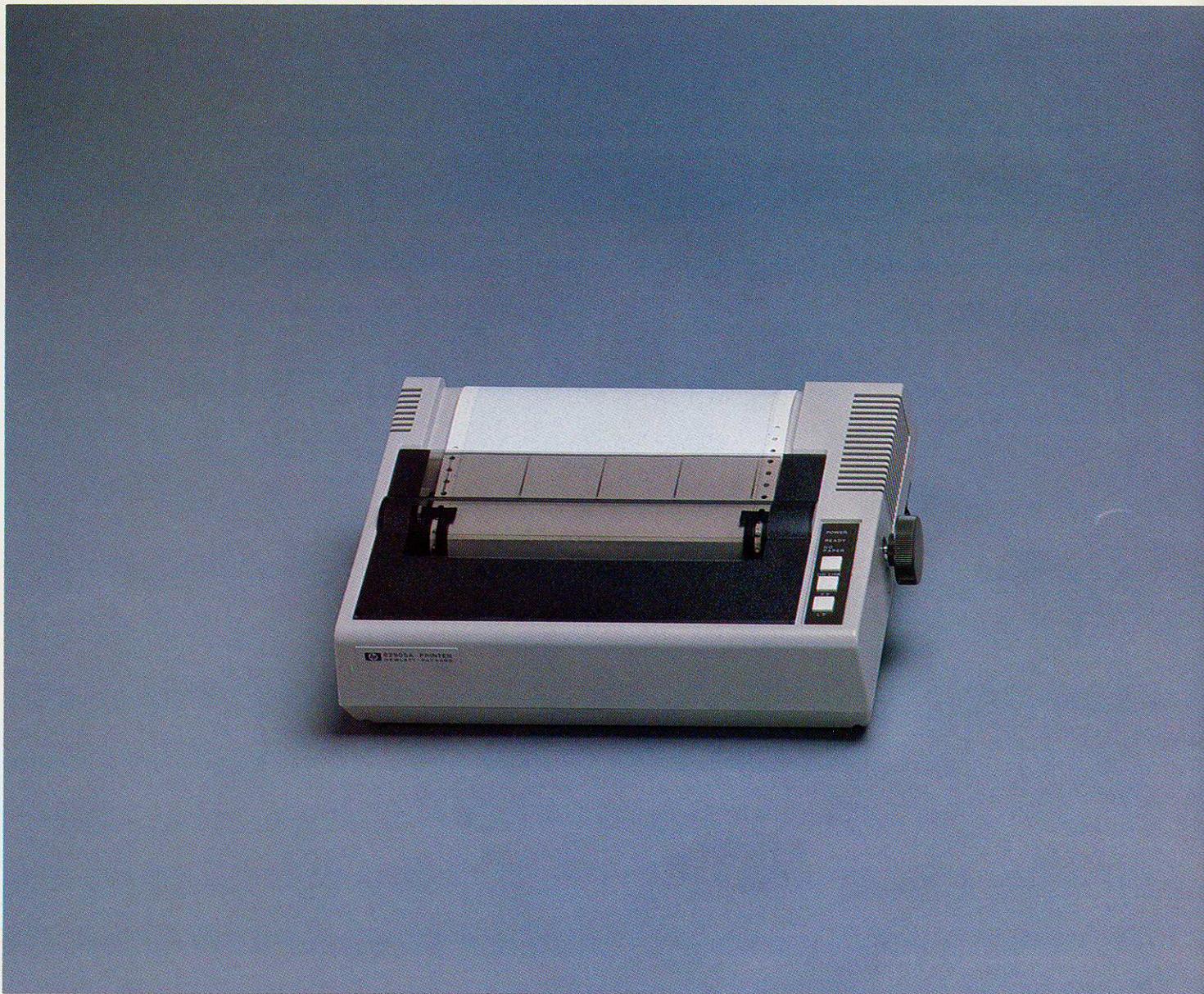
Average access time, 9.3 seconds

Programmable and mechanical security

HP-83 Personal Computer \$1600.00

HP-85 Personal Computer 1950.00

VisiCalc™ is a trademark of Personal Software, Inc.



Printers Hewlett-Packard has expanded their line of printers to allow more flexibility in the configuration of the Series 80. While the printers are considered optional, they often become a necessity when high volume, hard copy output is required from your computer system. Since the HP-83 has no printer, one must be added to provide printing capability. The HP-85 does have the built-in thermal printer, but a peripheral printer may be necessary for faster output or larger format.

This year, with the introduction of the 82905, Hewlett-Packard now has an entry level printer for reliable, low volume applications. The 82905 prints at 80 characters per second with an impact printer, so you can use multi-part forms. Any

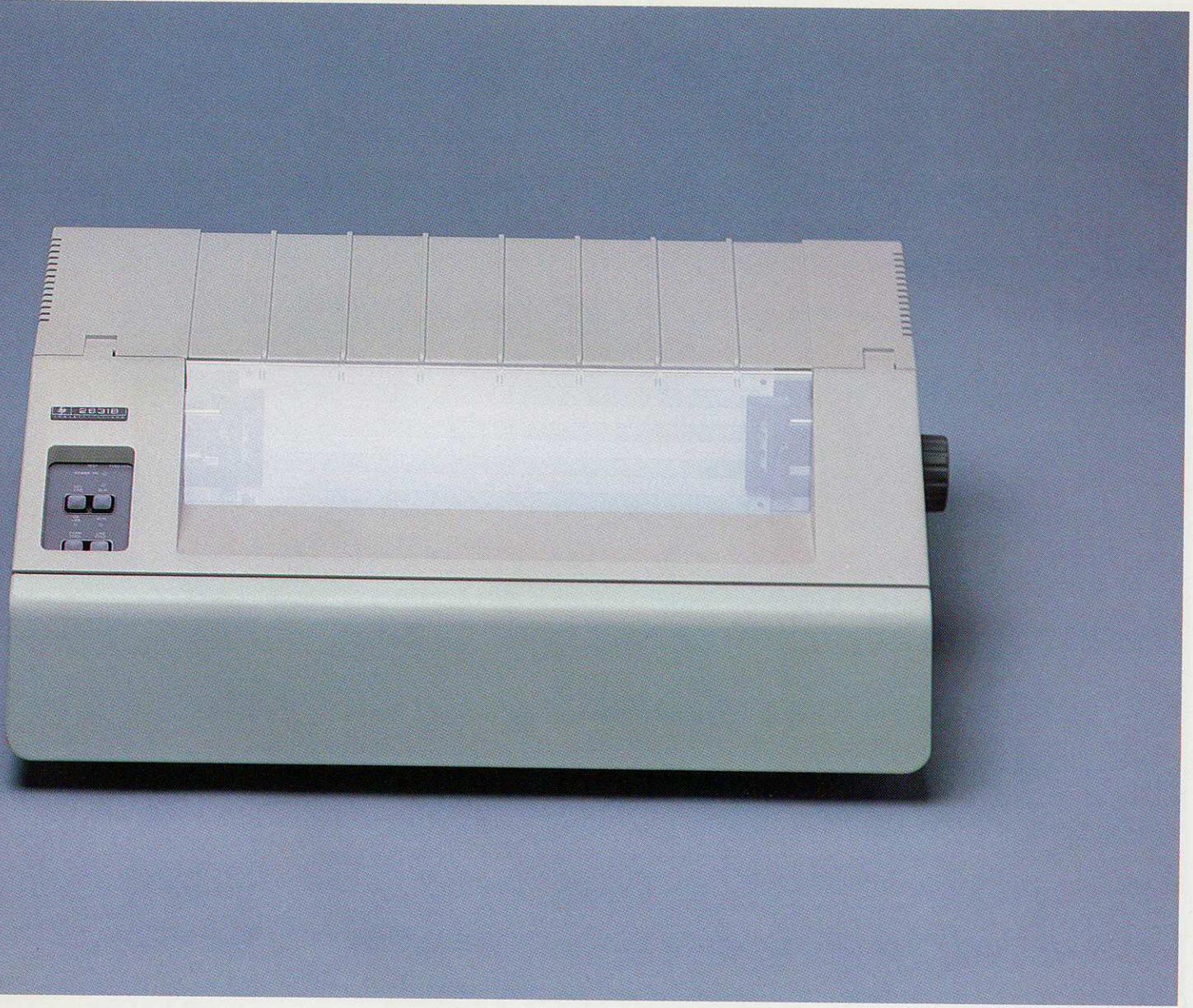
computer forms between 4 and 10 inches are accepted by the adjustable tractor feed. Highlighting and specialized forms are provided by programmable character size and line spacing. A particular advantage on a machine in this price range is graphic capability. The 82905 has a graphic mode that is not only useful, but also necessary for certain software applications, such as, VisiCalc Plus and the Information Management Pac. Other software, like Financial Decisions and Circuit Analysis, have screen graphics and need a graphic printer.

The 82905 meets the criteria of reliability and low maintenance cost with HP-IB interfacing, a diagnostic self-test and a low cost, replaceable print head. Another advantage, if space is a consideration, is the physical size of approximately 14 by 12 inches.

When your most important criteria include speed and full-width, commercial quality printing, the 2631B would be the best choice. The 2631B prints 180 characters per second and has a CMOS/SOS microprocessor for faster data manipulation. This printer offers 8 selectable print pitches and 12 programmable line spacings.

Other advantages are flexible forms handling, user convenience and reliability. The 2631B will accept single or multi-part forms and has adjustable tractors that can vary perforations from 1.22 to 15.7 inches. Page length, text length and perforation skip are programmable. Forms handling can also be accomplished with the 16 channel electronic vertical format.

Self-test capability and over 3 years of customer usage add to the 2631B reliability. And, of course,



service contracts are available for both bench and on-site maintenance.

82905 Printer

Printing: Impact, 9 x 9 matrix
80 characters/second

Character Set: 128 USASCII

Forms Handling: Single or multi-part (up to 3)
Adjustable tractors accommodate form width from 4 to 10 inches

Programmable line spacing

Graphics Mode: 72 x 60 or 72 x 120 dots per inch

Single keystroke or binary drives

Replaceable Print Head

2631B Printer

Printing: Impact, 7 x 9 dot matrix

180 character/second

Automatic underlining

8 selectable print pitches

Character Set: 128 USASCII

Forms Handling: Single or multi-part (up to 6)

Adjustable tractors accommodate form width from 1.22 to 15.75 inches

16 channel computed vertical format

Horizontal and vertical tabbing

Programmable page and text length

Automatic perforation skip

Required for operation of 82905 and 2631B

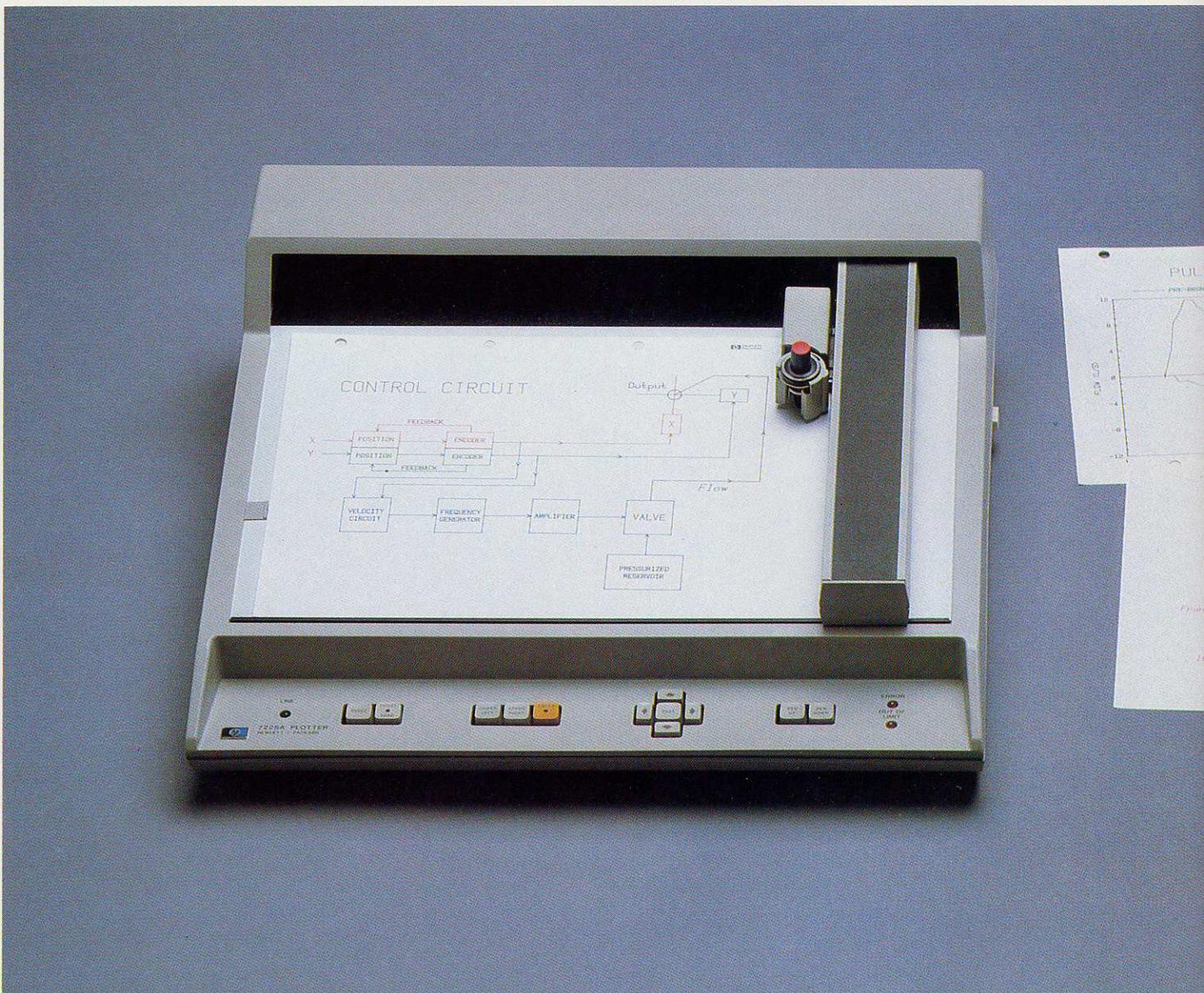
HP-IB Interface Module or

HP-IB Interconnect Cable

Plotter/Printer ROM

ROM Drawer

82905	Printer	\$ 750.00
2631B	Printer	3000.00
82937	HP-IB Interface Module	325.00
10833C	HP-IB Interconnect Cable	85.00
15002	Plotter/Printer ROM	125.00
82936	ROM Drawer	45.00

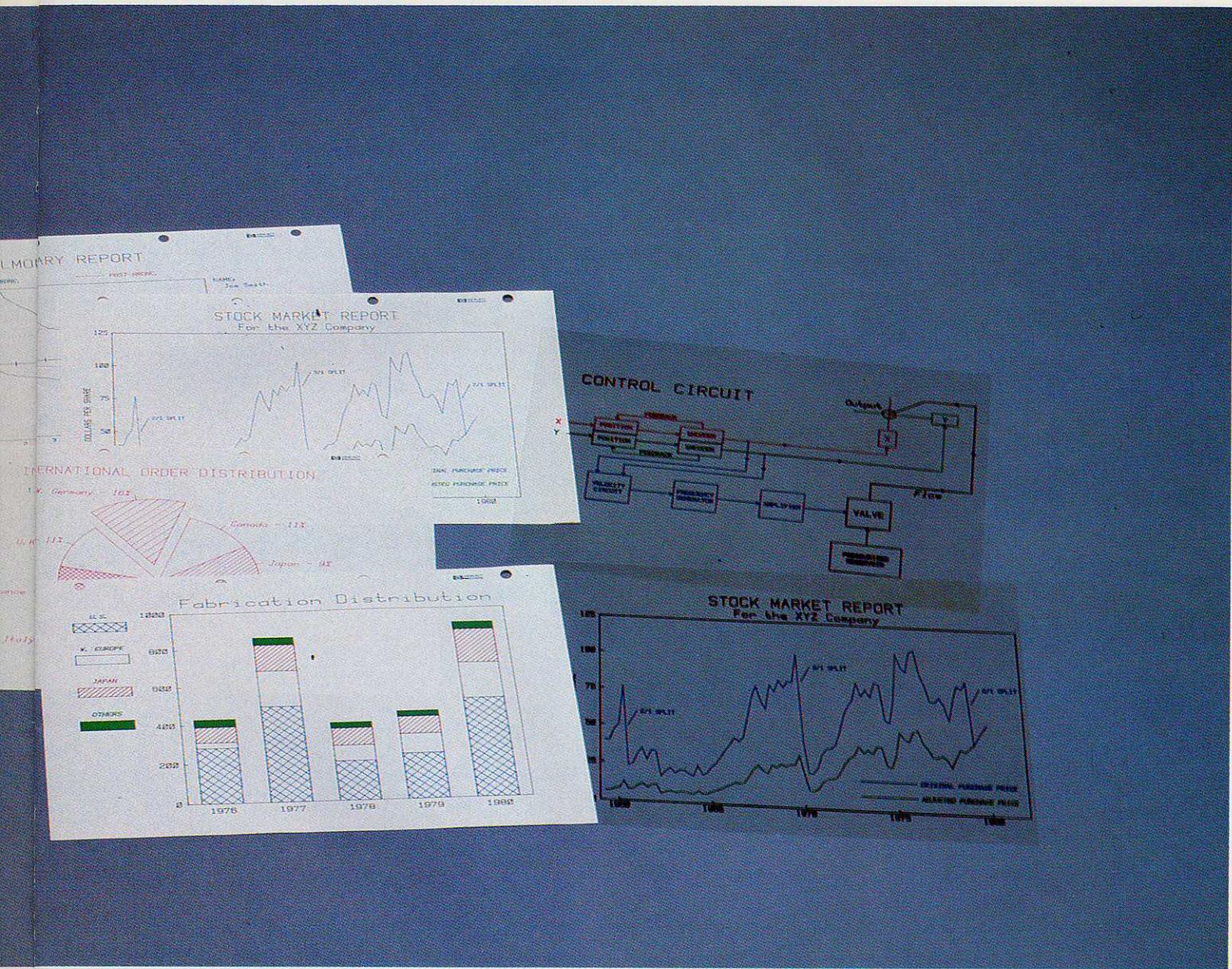


Plotter Business Week referred to it as "information indigestion"; the constantly increasing statistics being generated by today's computers. More and more management time is being devoted to statistics to identify trends, variances, forecasts, market share, profits...Management is looking for relationships that will assist them in making more intelligent and more timely decisions. The use of graphics is a more efficient way of establishing relationships than scanning columns of numbers.

The combination of a Series 80 computer and a 7225B plotter offers an extremely economical means of converting statistical data to graphic form. Multicolor graphs and transparencies can

be produced on the 7225B in a fraction of the time it would take manually. Alternatives can be quickly explored graphically. And, the quality of the graphs is suitable for a management consulting report or boardroom presentation.

Hewlett-Packard's Graphics Presentation Pac is designed for use by personnel with no computer training—this is a very overused and misused phrase, but accurate in this case. The system uses a combination of menus and special function keys to lead the user through each step of the graph. Line charts with up to six lines and 25 data points per line can be plotted. Bar charts can be created using up to 6 data sets with bars presented individually, stacked or clustered. Pie charts can be plotted with one or two pies per chart and each pie having up to 25 slices. All of the above can be done in four colors. In addition,



text can also be presented using any one of three type styles and nine different type sizes. Slanting of letters and underlining is also available. Title pages for reports and text presentations on transparencies with the professional touch can be produced.

In addition, the Information Management Pac and VisiCalc Plus both have the ability to generate line, pie and bar charts. Again, Information Management and VisiCalc Plus are designed for use by personnel with little or no computer training.

For the experienced programmer, the Printer/Plotter ROM adds over 50 high level graphic commands to the 80 Series BASIC language including vector plotting, axis generation, window

plotting, character and line type generation and digitizing.

The 7225B plotter, a valuable tool for analysis in the hands of the first time user or computer professional.

7225B Graphics Plotter

Plotting Area: Y axis, 8 inches
X axis, 11.2 inches

Plotting Accuracy: 0.01 inch

Repeatability: 0.004 inches from any given point and direction

Pen Velocity: 10 inch/second on either axis
14 inch/second on 45° angle

Vector Length: No limit

Character Plotting Speed: Up to 3 characters/second for 0.1 inch characters

Required for operation of 7225B

17601 Personality Module

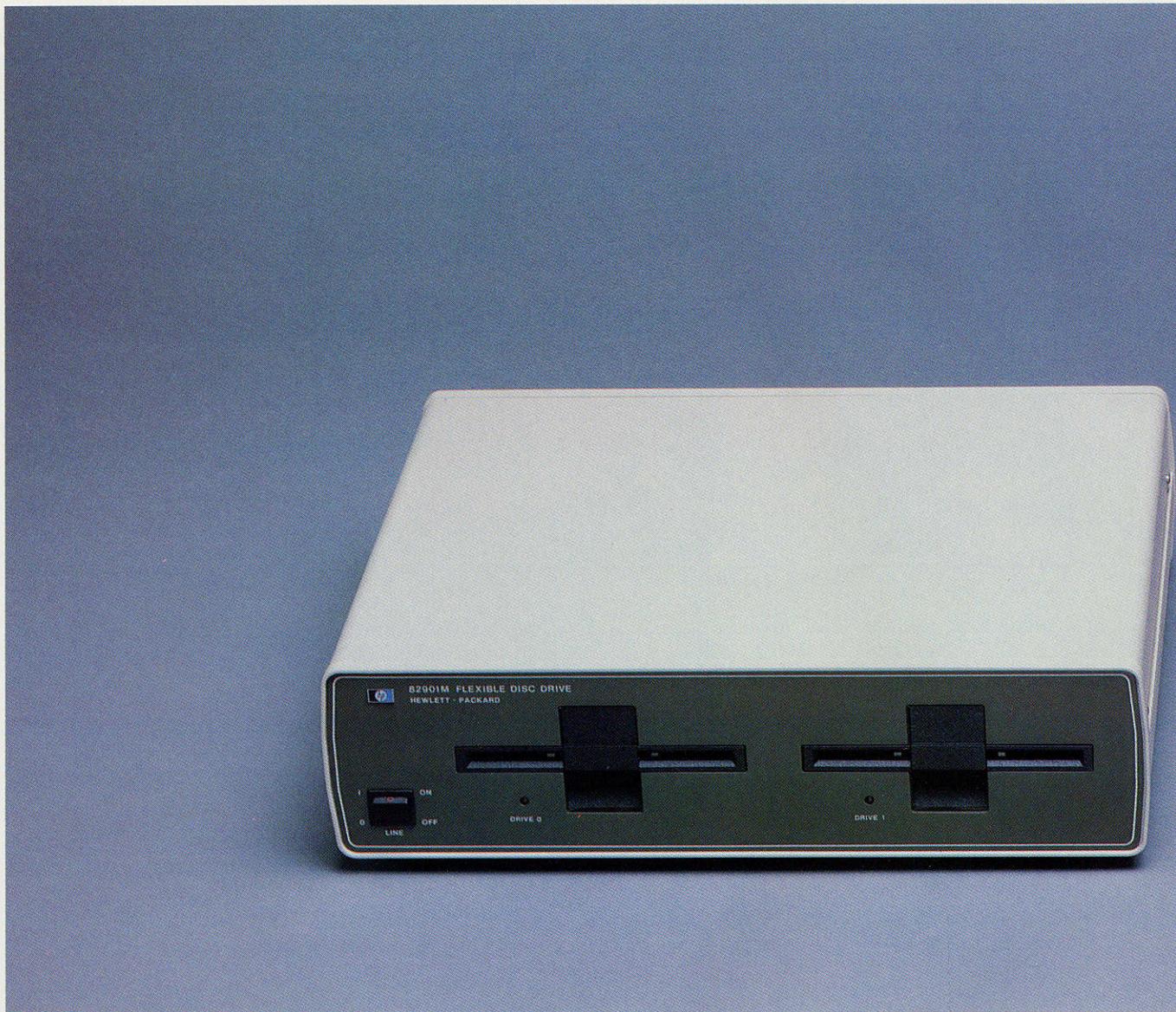
HP-IB Interface Module or

HP-IB Interconnect Cable

Plotter/Printer ROM

ROM Drawer

7225B	Graphics Plotter	\$2100.00
17601	Personality Module	650.00
82937	HP-IB Interface Module	325.00
10833C	HP-IB Interconnect Cable	85.00
15002	Plotter/Printer ROM	125.00
82936	ROM Drawer	45.00



Disc Drive If your Series 80 system requires frequent access to programs or data, or if your application requires large programs or a large data base, a disc drive can improve the performance of your system. The key to disc mass storage is that it allows random access to your data and programs.

The following chart compares some key statistics:

	HP-85 Internal Tape	82900 Series Disc Drive	9895 Series Disc Drive	9134 & 9135 Winchester Drive
Media	Tape	5 1/4 inch disc	8 inch disc	5 1/4 inch Winchester
Average access time	9.3/sec	.187/sec	.179/sec	.060/sec
Approximate capacity in bytes per tape or disc	210,000	270,000	1,180,000	4,600,000
Maximum configuration in bytes	210,000	1,080,000	4,720,000	4,600,000

Interface to the disc drives is provided by the Hewlett-Packard Mass Storage ROM. As ROM (read only memory) is used, user available computer memory is not affected when adding disc drive. The Mass Storage ROM also provides commands and controls for disc operations. At power on, the Series

80 computer recognizes that the disc is attached and automatically uses it as the mass storage device. In addition, there is a Translate command that allows programs and data stored on tape to be transferred to disc.

Hewlett-Packard currently has three sets of disc drives compatible to the Series 80. The configuration chart on the following page explains the master/slave relationships and the minimum and maximum

capacities available from the different drives. The 82900s include single or dual drives with 5 1/4" flexible discs. They are recommended for small business and professional applications that have outgrown the internal storage capacity of the Series 80 cassette drive. The 9895s feature 8" flexible discs with single or dual drives. One advantage of the 9895 is that it can exchange data with the IBM 3740 formatted disc, one of the most common formats in the industry.

The newest addition is the Winchester drive. The major advantages are a relatively inexpensive mass storage capability when considering performance and capacity. By comparing the two charts on these pages, it is evident that the Winchester provides faster access and more storage per dollar. An additional advantage of the 9134 is reliability: long head life is assured as the head never touches the medium and the sealed nonremovable disc protects the system from pollutants. The Winchester 9135



a 9134 with a 5 1/4" removable flexible disc; the backup capability is an invaluable addition for the protection of your data. The 9134 and 9135 are physically similar to the 82900 disc drives.

There are six basic configurations for the 82900 and 9895 both series disc drives, while the Winchester has two. Each configuration for the 82900 and 9895 must have one master drive — 82901M, 82902M, 9895 or 9895 opt 010. Slave drives come complete with cable to attach slave to master.

The 82900 Series

82902M	= 270K Bytes
82902M + 82902S	= 540K Bytes
82902M + 82901S	= 810K Bytes
82901M	= 540K Bytes
82901M + 82902S	= 810K Bytes
82901M + 82901S	= 1,080K Bytes

The 9895 Series

9895 opt 010	= 1,180K Bytes
9895 opt 010 + 9895 opt 011	= 2,360K Bytes
9895 opt 010 + 9895 opt 012	= 3,540K Bytes
9895	= 2,360K Bytes
9895 + 9895 opt 011	= 3,540K Bytes
9895 + 9895 opt 012	= 4,720K Bytes

The Winchester Series

9134	= 4,600K Bytes
9135	= 4,600K Bytes

plus 270K Bytes removable backup

To insure maximum head life and disc life, the use of Hewlett-Packard discs is highly recommended.

Required for operation of 82900, 9134 and 9895

Disc Drives
HP-IB Interface Module or
HP-IB Interconnect Cable
Mass Storage ROM
ROM Drawer

82901M 5 1/4" Dual Master	\$2000.00
82901S 5 1/4" Dual Add-on	1700.00
82902M 5 1/4" Single Master	1200.00
82902S 5 1/4" Single Add-on	1000.00
9134 5 1/4" Winchester Only	3400.00
9135 5 1/4" Winchester with 5 1/4" Flexible Disc Drive	4100.00
9895 8" Dual Master	5200.00
9895 Opt 012 8" Dual Add-on	4500.00
9895 Opt 010 8" Single Master	3800.00
9895 Opt 011 8" Single Add-on	3000.00
82937 HP-IB Interface Module	325.00
10833C HP-IB Interconnect Cable	85.00
15001 Mass Storage ROM	125.00
82936 ROM Drawer	45.00

PROGRAMMABLES



HP-IL January 1972 represented a milestone for personal calculating with the introduction of the HP-35. We believe that January 1982 will represent another milestone with the introduction of the Hewlett-Packard Interface Loop — HP-IL. HP-IL allows battery operated systems to be interfaced. A limitation of past calculators has been removed. HP-IL will allow portable calculators to implement applications not considered possible in the past: direct interface to computers, RS-232 and GPIO interfaces, instrument controlling, plotting, video interfaces. Your imagination is the only constraint.

In general terms, the HP-IL addresses and eliminates several limitations related to portable devices that previous interfaces have exhibited. HP-IL is a low cost, low power consumption, small and portable

interface. Up to 960 devices can be connected in one loop configuration, with data passing in one direction in bit serial fashion. Up to ten meters can separate devices. Attached to the HP-41, up to 30 devices may be accessed while using only one port. Data transfer with the HP-41 and HP-IL is approximately 1K byte/sec. Just as HP-IB, IEEE-488, has become a standard for computer interfacing, HP-IL will no doubt become the interfacing standard for portable calculators and personal computers.

In addition, HP has added a number of enhancements for the HP-41 series. A digital cassette drive and printer/plotter compatible with the HP-IL are now available. An extended functions/memory module and extended memory module will be available allowing the HP-41 programming capacity to be increased to 6,454 bytes of memory. Future extensions

call for a video interface, an HP-IL interface for the Series 80 personal computer, RS-232 and GPIO interfaces will be available as well as a time module and extended I/O module for controller applications. The 82905 eighty column printer will also be compatible with HP-IL and the HP-41 series. New ground is being broken in personal calculators in January 1982, much as it was in January 1972 with the introduction of the HP-35.



The HP-41 The HP-41C and HP-41CV are the most powerful Hewlett-Packard programmable calculators to date. The HP-41C was chosen by NASA for the Astronauts on the space shuttle Columbia because of its capabilities and reliability.

The only difference between the HP-41C and HP-41CV is the amount of built-in memory. The HP-41C built-in memory retains up to 400 program lines, or 63 data registers. Built-in memory for the HP-41CV holds up to 2000 program lines, or 319 data registers, or any combination. Memory modules, four singles or one quad, can expand the HP-41C memory to that of the HP-41CV.

Both calculators have 58 functions on the keyboard, but provide up to 130 separate functions allowing the user to personally tailor the keyboard by

customizing with overlays and user labels. Four I/O ports are available to accommodate card reader, wand, printer/plotter and application modules. With the exception of memory modules, all software and peripherals can be used in either model.

Memory Extensions Hewlett-Packard has again extended the memory capability of the HP-41 with the 82180 Extended Function/Memory Module and the 82181 Extended Memory Module. It should be noted that neither of these modules extend main memory where actual processing occurs beyond the 2233 bytes resident in the CV or C with quad module. Effectively what is provided is additional internal storage where programs and data can be stored.

The 82180 Extended Function/Memory Module adds 889 bytes of memory and 47 enhanced functions that provide memory management.

Programmable size, assign and string functions are now available to manage the swapping of programs and data between main memory and extended memory. Contents of extended memory are organized in files, program, data and ASCII, that are controlled by the enhanced functions.

The 82181 Extended Memory Module adds 1666 bytes of memory to your C or CV. Up to two of these modules can be added. However, you must have added the Extended Functions/Memory Module before adding Extended Memory. Again, Extended Memory should be thought of as on line storage as opposed to additional processing memory.

Input Devices There are now three different media that can be used to input programs and data into the



HP-41: the new digital cassette drive, the card reader, and the wand.

The digital cassette drive accesses the HP-41 through the new HP-IL. Each cassette has a capacity of 131,000 bytes — the entire set of programs from all solution books could fit on three quarters of one cassette. The full contents of the HP-41CV can be copied or written in less than 40 seconds. Average access time is 13 seconds and rewind time is only 30 seconds. The cassette drive is battery operated but the standby mode allows for power to be conserved until the unit is addressed by the HP-41 thru the HP-IL; the first real mass storage device for a portable electronic calculator.

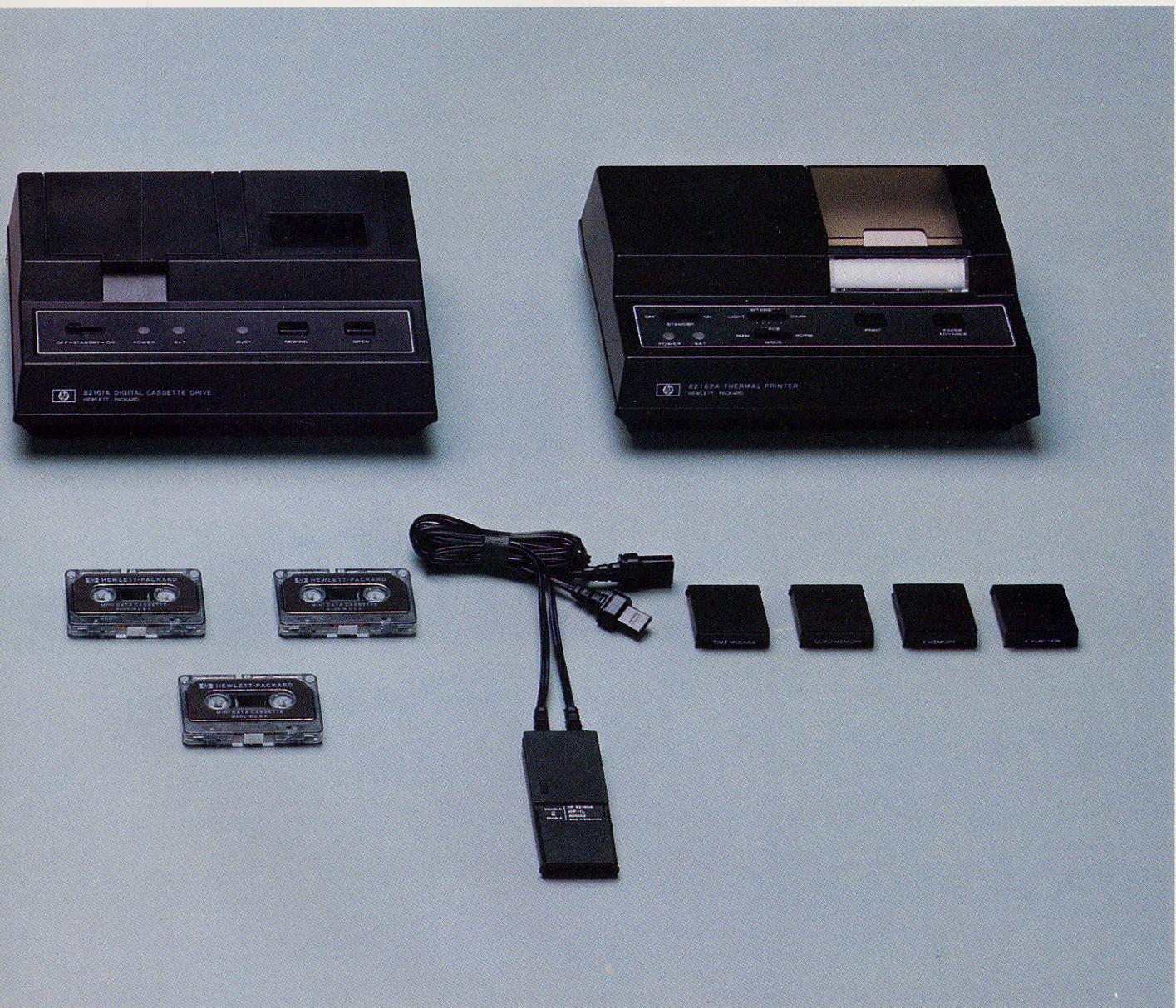
The addition of the card reader gives you the ability to write and store your programs and data on magnetic cards. When the card is passed through

the card reader, your program is immediately placed in the calculator. The card reader even accepts programs written for the HP-67 and HP-97. If you develop your own software and use it frequently, the card reader is a great time saver.

Another programming aid is the wand. The wand provides a fast and accurate means for loading data and programs by reading bar codes. Most solution books and users' library programs are already in the bar code format. You can customize programs with keyboard functions by using the wand on a coded paper keyboard. Perhaps the most important feature of the wand is that it provides you with almost unlimited access to software which can be inexpensively stored, reproduced and distributed. Bar code programs can be reproduced on high quality copying machines or by offset printing. Hewlett-Packard now has the only available method of producing multiple copy programs with the criteria of speed, accuracy and cost effectiveness.

Printer/Plotter The 82143 printer/plotter will print 127 standard characters including numbers, upper and lower case letters, single and double width characters. It has plotting capability with intensity control. It also allows you to define your own special set of characters. The printer/plotter is portable; it is powered by its own set of batteries or can be run on ordinary house current.

The new 82162 printer/plotter is similar to the 82143 but utilizes the HP-IL to interface with the HP-41. In addition to the capabilities mentioned under the 82143, the 82162 has a 100 character buffer that allows for greater speed and enhanced graphics. It also provides for formatting by allowing automatic centering and right and left justify. Finally, when the 82183 Extended I/O Module becomes available, third quarter 1982, the 82162 will be able to generate bar code that can then be read by the wand.



Software Although software has already been mentioned in relation to the wand and card reader, we would like to explain additional sources of current software. Application pacs contain a preprogrammed module and comprehensive instruction manual for specific problem solving. Pacs available at this time include clinical lab and nuclear medicine, circuit analysis, financial decisions, real estate, mathematics, securities, statistics, stress analysis, surveying and others.

Solution books provide complete keystroke listing for developing programs. There are 26 books available in the general areas of business, computation, engineering and others.

Further software is available in the users' library; a collection of individual programs written and submitted by users. The users' library consists of literally thousands of programs, a catalog of contributed programs and a periodic update of what is available. Hewlett-Packard also offers a custom

service for keyboard overlays and software solutions in module, magnetic card or bar code format.

Please note that the memory module, single or quad, cannot be used with the HP-41CV.

HP-41C	\$190.00
HP-41CV	250.00
82160 HP-IL Module	100.00
82104 Card Reader	175.00
82153 Wand	100.00
82161 HP-IL Digital Cassette Drive	425.00
82176 Digital Cassette (One)	9.50
82143 Printer	300.00
82162 HP-IL Printer	375.00
82106 Single Memory Module	30.00
82170 Quad Memory Module	95.00
82180 Extended Functions/Memory	75.00
82181 Extended Memory	75.00
82182 Time Module	75.00

Purchase of your system should be based on components that have been officially introduced by Hewlett-Packard. As with any technical product, problems could occur which could delay or cancel some of the above referenced future enhancements. The items listed in the price list above are the only items that should be considered at the present time, January 15, 1982.



HP-67



HP-97

HP-67 and HP-97 Functionally identical portable programmable calculators. The HP-97 has printing capability. Ten user definable keys and 224 steps of program memory make either versatile calculator ideal for your complex scientific and business problems.

Software packs that greatly expand the capabilities of the machine are available. No knowledge of programming is necessary for their use because of the prerecorded cards and step-by-step instructions included with each pack. Packs are offered for electrical engineering, business and finance, clinical lab and nuclear

medicine, civil engineering, navigation, surveying, statistics, mathematics, mechanical engineering and games.

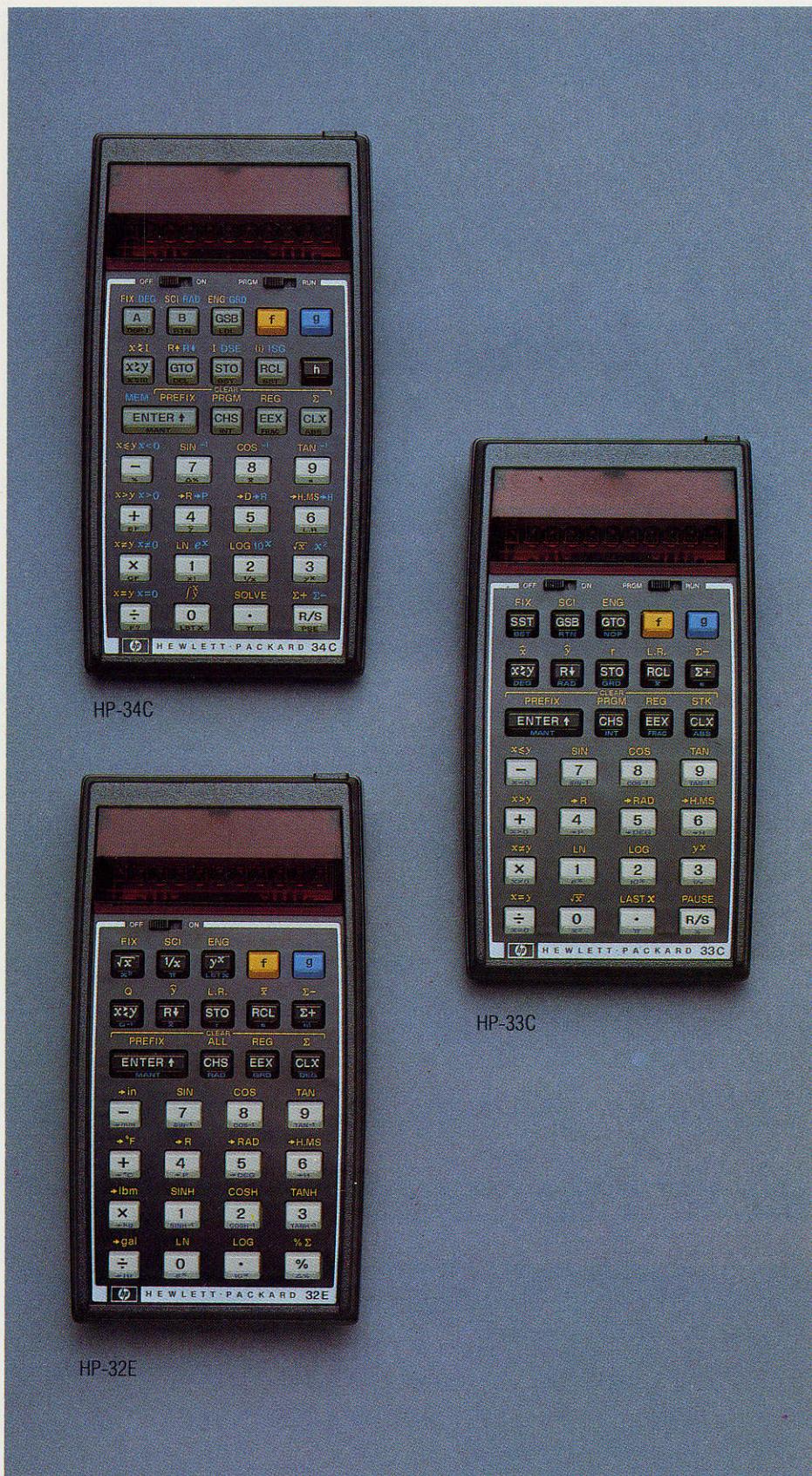
Users' library solution booklets have more specific information in various problem areas. You can enter these programs on blank magnetic cards for repeated use. The library includes eight booklets for business, four for computation, eight for engineering, four for medicine, eight for physical/life sciences and eight others.

Truly versatile calculators for all disciplines. Thermal paper required for the HP-97.

HP-67 by Hewlett-Packard: \$320.00

HP-97 by Hewlett-Packard: \$600.00

SCIENTIFICS



HP-34C Advanced scientific programmable calculator with nonvolatile memory. Indirect storage, recall and addressing, flags, label addressing. Insert and delete editing. The memory varies between 210 program lines, up to 4 keystrokes per line, and 21 user storage registers. The only calculator available with a new function key for Solve, for finding roots of an equation.

HP-34C by Hewlett-Packard: \$120.00

HP-32E Preprogrammed scientific with logarithmic and trigonometric functions. Polar/rectangular and metric conversions. Fifteen addressable storage registers. Two variable means and standard deviations. Linear regression and linear estimate. Hyperbolics. Vector arithmetic.

HP-32E by Hewlett-Packard: \$50.00

HP-33C Basic scientific programmable calculator with a nonvolatile memory. Forty-nine program lines of fully merged key codes. Editing keys, control keys and a full range of conditional keys. Eight storage registers. Optional application books for mathematics, statistics, surveying, and student engineering.

HP-33C by Hewlett-Packard: \$75.00

BUSINESS/FINANCIAL

HP-38C Hewlett-Packard's hand-held calculator with a nonvolatile memory for the professional business person. A full range of time/money calculations. 2000-year calendar. Statistical functions. Percent. Twenty addressable storage registers. Up to 99 program steps allowing you to develop solutions to meet your unique requirements.

HP-38C by Hewlett-Packard: \$120.00

HP-37E Complete financial functions: number of periods, interest rate, payment, present or future value... at the touch of a key. Automatic amortization schedules. Seven storage registers. Linear regression or trend line.

HP-37E by Hewlett-Packard: \$65.00



ACCESSORIES

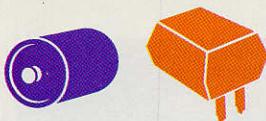


Shown above are a few of the literally hundreds of accessories from Hewlett-Packard. Accessories keep computers and calculators running. Accessories make computers and calculators more useful. You can depend on Personal Computer Products' continued support after your purchase.

And for those of you who still own the original HP-35, we offer the following:

HP-35 Accessories

Adapter/Charger	82002	\$25.00
Battery Pack	82001B	15.00
Reserve Power Pack	82004	30.00
Field Case	82003	30.00
Security Cradle	82007	30.00
DC Charger	82056	35.00
Math Application Book	90023	10.00



Model	Adapter/Charger	Price
HP-35, 45, 55, 65, 67, 70, 80	82002 (115/230 Volts)	\$25.00
HP-21, 22, 25, 25C, 27, 29C	82026 (115/230 Volts)	20.00
	82041 (115 Volts only)	15.00
HP-31E, 32E, 33E/C, 34C, 37E, 38E/C	82087B (115 Volts only)	12.50
	82090B (230 Volts only)	20.00
HP-10, 19C	82059B (115 Volts only)	12.50
	82066B (230 Volts only)	25.00
HP-91, 92, 97, 82143 Printer	82059B (115 Volts only)	12.50
	82066B (230 Volts only)	25.00
HP-41C/CV	82059B (115 Volts only)	12.50
	82066B (230 Volts only)	25.00

Battery Pack	Price
82001B	\$15.00
82019B	10.00
82019B	10.00
82109	8.00
82109	8.00
82052	25.00
82052	25.00
82033	20.00
82033	20.00
82120	35.00
82120	35.00

Model	Reserve Power Pack	Price
HP-31E, 32E, 33E/C, 34C, 37E, 38E/C	82103	\$20.00
HP-35, 45, 55, 65, 67, 70, 80	82004	30.00
HP-91, 92, 97, 82143 Printer	82037	45.00
HP-21, 22, 25, 25C, 27, 29C	82028B	20.00



Blank Program Cards for 82104 Card Reader, HP-41C/CV, 65, 67, 97

13141	40 blank magnetic cards with holder	\$ 20.00
13143	120 blank magnetic cards with holder	45.00
13206	1000 blank magnetic cards, no holder	195.00
13142	3 card holders	10.00



Thermal Paper (6 rolls per box)

82045	for HP-91, 92, 97, 82143 and 82162	\$ 8.00
82051	for HP-10, 19C	8.00
82175	Black for 82143 and 82162 only	12.00



Memory Modules for HP-41C

82106	Single Memory Module	\$30.00
82170	Quad Memory Module	95.00



HP-67/97 Application Pacs

67/13101	HP-67 Standard Pac	97/13101	HP-97 Standard Pac
13111	Stat Pac I	13165	Clinical Lab & Nuclear Medicine
13121	Math Pac I	13175	Survey Pac I
13131	Electrical Engineering	13185	Games
13144	Business Decisions	13195	Civil Engineering
13155	Mechanical Engineering	13205	Navigation

HP-67/97 Solution books are available for Business, Computation, and Engineering.



HP-41C/CV Application Pacs

15002	Statistics	\$30.00
15003	Mathematics	
15004	Financial Decisions	
15005	Surveying	
15006	Circuit Analysis	
15018	Aviation	
15019	Thermal & Transport Science	
15020	Machine Design	
15022	Games	
15023	Home Management	
15024	Clinical Lab & Nuclear Medicine	
15026	Securities	
15027	Stress Analysis	

HP-41C/CV Application Pacs (except Petroleum Fluids)

15016	Real Estate	\$45.00
15017	Navigation	
15021	Structural Analysis	
15039	Petroleum Fluids	75.00



HP-41C/CV Solution Books

<i>Engineering</i>	<i>Business</i>	\$12.50
90088	Electrical Engineering	
90089	Civil Engineering	
90090	Mechanical Engineering	
90092	Control Systems	
90093	Antennas	
90100	Chemical Engineering	
90138	Solar Engineering	
90139	Fluid Dynamics/Hydraulics	
90140	Heat/Vent./Air Conditioning	
90141	Surveying	
<i>Computation</i>	<i>Other</i>	
90082	Test Statistics	
90083	High-Level Math	
90084	Geometry	
	90097	Cardiac/Pulmonary
	90099	Games
	90102	Chemistry
	90142	Physics
	90143	Optometry I (General)
	90144	Optometry II (Contact Lens)
	90145	Calendars



HP-38E/C Application Books

90024	Real Estate	\$5.00
90025	Lending, Savings, & Leasing	
90026	Investment Analysis & Statistics	

Application books are also available for all current and most discontinued models.

This list is a replacement parts reference.

Due to the frequent changes in manufacturers specifications, this guide is intended as a reference only. We recommend that all accessories be identical to the parts originally delivered with the calculator.

Model No.		Price	Model No.		Price
Application Pacs					
85-13001	Standard	\$ 95.00			
85-13002	BASIC Training	95.00			
85-13003	General Statistics	95.00			
85-13004	Financial Decisions	95.00			
85-13005	Math	95.00			
85-13006	AC Circuit Analysis	95.00			
85-13010	Games	95.00			
85-13011	Linear Programming	95.00			
85-13034	Text Editing	95.00			
85-13036	Basic Statistics and Data Manipulation	95.00			
85-13035	Waveform Analysis	95.00			
85-13037	Regression Analysis	95.00			
85-13042	VisiCalc™ Plus	175.00			
85-13038	Graphics Presentations	175.00			
85-13045	Information Management	175.00			
85-13046	Surveying	175.00			
85-13044	Data Communications	175.00			
Documentation					
82935	3-Ring System Literature Binder	10.00	9270-0639		
83-90002	HP-83 Owner's Manual	25.00	5060-6828		
83-90001	HP-83 Pocket Guide	5.00	5060-6818		
85-90002	HP-85 Owner's Manual	25.00	5060-6834		
85-90040	HP-85 Pocket Guide	5.00			
85-90447	Mass Storage ROM Handbook	10.00	5060-6819		
85-90142	Input/Output ROM Handbook	30.00			
85-90159	Plotter/Printer ROM Handbook	10.00	5060-6835		
85-90144	Matrix ROM Handbook	10.00			
85-90146	Advanced Programming ROM Handbook	8.00	9270-1006		
85-90444	Assembler ROM Handbook	20.00			
82937-90007	HP-IB Interface Manual	10.00	9270-1023		
82939-90001	Serial Interface Manual	10.00			
82940-90001	GPIO Interface Manual	10.00	9280-0475		
82941-90001	BCD Interface Manual	10.00	9280-0476		
82949-90001	Printer Interface Manual	10.00			
82901-90001	5 1/4" Disc Operators Manual	10.00			
09895-90000	8" Disc Operators Manual	10.00			
02631-90917	2631B Printer Operators Manual	8.00	82933	HP-85/83 Carrying Case	120.00
02631-90918	2631B Printer Family Reference Manual	7.00	82948	HP-85/83 Dust Cover	15.00
17601-90000	7225B Plotter Operators Manual	27.50	82932	Cartridge/Manual Holder	10.00
07225-90004	7225B Plotter Beginners Guide with HP-85	7.50			
07225-90005	7225B Plotter Operators Note	5.00	26097	2631B Printer Stand	290.00
09111-90000	9111A Graphics Tablet Operators Manual	24.00	26097-Opt 002	Adds Paper Rack to 2631B Printer Stand	53.00
			1540-0560	Vinyl Carrying Case for 7225B	220.00
			17055	7225B Overhead Transparency Kit	125.00
			09872-60066	7225B Digitizing Sight	40.00
Supplies and Consumables					
<i>Computers</i>					
98200	HP-85 Tape Cartridges, Pkg. of 5	95.00		HP-IB Interconnect Cables	
82931	HP-85 Blue Thermal Paper (2 rolls, 120 m each)	30.00	10833D	1/2 Meter	70.00
82954	HP-85 Black Thermal Paper (2 rolls, 120 m each)	30.00	10833A	1 Meter	70.00
			10833B	2 Meters	75.00
			10833C	4 Meters	85.00
<i>Mass Storage</i>					
92190	10 Pack 5 1/4" Discs	74.00			
92195	10 Pack 8" Discs	105.00			
Supplies and Consumables (Continued)					
<i>Printing/Graphics</i>					
92154P	82905 Replacement Print Head			\$ 55.00	
92156	82905 Printer Ribbon Cartridges (pkg. of 2)			38.00	
92155	2631B Printer Ribbon Cartridges (pkg. of 3)			63.00	
17013	15 Pads 8 1/2" X 11" Paper, Pens, and Pen Holder for 7225B			95.00	
07225-40054	Pen Holder for 7225B			4.40	
<i>7225B Transparency Supplies</i>					
	Transparency Sheets (100)			27.50	
	Transparency Solvent			4.30	
	Transparency Pens (Black, Red, Blue, Green)			8.50	
	Transparency Pens (Black, Orange, Brown, Violet)			8.50	
	Transparency Pens, Wide Tip (Black, Red, Blue, Green)			8.50	
	Transparency Pens, Wide Tip (Black, Orange, Brown, Violet)			8.50	
<i>7225B Plotter Paper</i>					
	8 1/2" X 11", Std. Grid, English, 100 Sheets			7.00	
	216 X 280 mm, Std. Grid, Metric, 100 Sheets			7.00	
	8 1/2" X 11", Blank, 50 Sheets			4.00	
	A4 Blank, 50 Sheets (European Size)			4.00	
Accessories					
<i>Computers</i>					
	HP-85/83 Carrying Case				
	HP-85/83 Dust Cover				
	Cartridge/Manual Holder				
<i>Printing/Graphics</i>					
26097	2631B Printer Stand			290.00	
26097-Opt 002	Adds Paper Rack to 2631B Printer Stand			53.00	
1540-0560	Vinyl Carrying Case for 7225B			220.00	
17055	7225B Overhead Transparency Kit			125.00	
09872-60066	7225B Digitizing Sight			40.00	
<i>Interfaces</i>					
	HP-IB Interconnect Cables				
10833D	1/2 Meter			70.00	
10833A	1 Meter			70.00	
10833B	2 Meters			75.00	
10833C	4 Meters			85.00	

Price List

Model No.	Price	Page
HP-11C	\$110.00	24
HP-12C	120.00	24
HP-32E	50.00	17
HP-33C	75.00	17
HP-34C	120.00	17
HP-37E	65.00	18
HP-38C	120.00	18
HP-41C	190.00	12
HP-41CV	250.00	14
82104 Card Reader	175.00	14
82143 Printer	300.00	14
82153 Wand	100.00	14
*82160 HP-IL Module	100.00	15
*82161 HP-IL Digital Cassette Drive	425.00	15
*82162 HP-IL Thermal Printer/Plotter	375.00	15
HP-67	320.00	16
HP-97	600.00	16

Series 80 Price List

Model No.	Price
Computers	
HP-85	Personal Computer
HP-83	Personal Computer
Mass Storage	
82901M	5 1/4" Dual Master Flexible Disc Drive
82901S	5 1/4" Dual Add-on Flexible Disc Drive
82902M	5 1/4" Single Master Flexible Disc Drive
82902S	5 1/4" Single Add-on Flexible Disc Drive
*9134	5 1/4" Winchester only
*9135	5 1/4" Winchester with 5 1/4" Flexible Disc Drive
9895	8" Dual Master Flexible Disc Drive
9895-Opt 012	8" Dual Add-on Flexible Disc Drive
9895-Opt 010	8" Single Master Flexible Disc Drive
9895-Opt 011	8" Single Add-on Flexible Disc Drive
Printing/Graphics	
82905	Impact Printer
2631B Opt 885	Impact Printer
Opt 020	Add USASCII high density print
7225B Opt 002	Graphics Plotter
17601 Opt 085	Personality Module for 7225B
9111	Graphics Tablet
Firmware Enhancements	
82903	HP-85/83 16K Memory Module
82936	HP-85/83 ROM Drawer
85-15001	Mass Storage ROM
85-15002	Plotter/Printer ROM
85-15003	Input/Output ROM
85-15004	Matrix ROM
85-15005	Advanced Programming ROM
85-15007	Assembler ROM
82928	System Monitor
82929	Programmable ROM Drawer
Interfaces	
82937	HP-IB Interface Module
82938	HP-IL Interface
	Serial Interface (RS-232C):
82939	Female Connector
82939-Opt 001	Male Connector
82939-Opt 002	Current Loop
82940	GPIO Interface
82941	BCD Interface
82949	Printer Interface

HP-125 Price List

Model No.	Price
HP-125	HP-125 Computer
HP-125-050	HP-125 with Thermal Printer
2601	Daisywheel Serial Printer
<i>Software</i>	
45531-080	VISICALC/125
45532-080	GRAPHICS/125
45533-080	WORD/125
45534-080	LINK/125
45535-080	BASIC/125
45536-080	Programming Package

Series 80 Service Options

Hewlett-Packard's Series 80 hardware is covered by a limited 90 day warranty, but should a problem develop, you as a user are primarily concerned with down-time, regardless of warranty status.

To minimize down-time inconvenience, we strongly urge you to immediately contact the HP office closest to you for information on the On-Site Product Maintenance Agreement. If this policy is purchased within 10 days of the original equipment sale, you receive on-site service at no extra charge during the warranty period. If purchased after 10 days, this agreement would not cover on-site service during the warranty, and coverage would not begin until the warranty expires. On-site policies purchased after a warranty expires would be subject to inspection charges.

Under this policy, price and response time vary in relation to distance from a Hewlett-Packard Sales Office. For example, if you are within 100 miles of an HP Field Repair Office, response to on-site service would be next working day. Information on cost and response time may be obtained from your closest HP office.

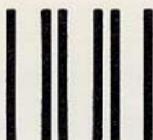
Other maintenance policies are available through Field Repair Offices for extended warranty and per incident service. However, we feel your best interests will be served by an On-Site Product Maintenance Agreement.

Calculator Warranty and Service

Hewlett-Packard's calculators are covered by a limited 12 month warranty. Complete warranties are available on request and are delivered with individual units on purchase. Personal Computer Products will replace any calculator that proves defective within 30 days of purchase. We cannot replace calculators that show signs of physical abuse, property numbers or engraving.

** Please note that the products with the above indication are anticipated to be in short supply. For this reason, we will accept only MasterCard, VISA or company purchase order on these items. If you are not able to order using one of the three methods listed above, please send your written order but do not send your check; you will be contacted when we are able to ship your order. Checks for merchandise in short supply will be returned. MasterCard and VISA will not be processed until shipment is made. Invoicing will occur at time of shipment on company purchase orders. Your cooperation is appreciated.*

All standard factory accessories are included with each calculator



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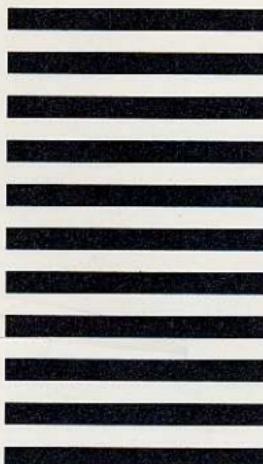
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<input type="checkbox"/> Business Calculators	<input type="checkbox"/> Programmable owner
<input type="checkbox"/> Scientific Calculators	<input type="checkbox"/> Business or Scientific owner

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To minimize down-time inconvenience, we strongly urge you to immediately

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With the introduction of the HP-35, Hewlett-Packard created the style and design standard for professional calculators. A standard that has seen little change in ten years. With the introduction of the HP-11C and HP-12C, HP has once again established a new direction in calculator styling. The slim lines with horizontal display and keyboard incorporate the technology of the Eighties to create a new class of professional calculator.

HP-12C Hewlett-Packard's new standard for the business user. A full range of time/money functions. Amortization schedules. Bond calculations including yield to maturity. Net present value and internal rate of return. Plus, statistical functions and up to 99 program steps for solving your unique business problems. Nonvolatile memory.

HP-12C by Hewlett-Packard: \$120.00

HP-11C New for the scientific user. Nonvolatile memory and 203 program lines plus a full range of logarithmic and trigonometric functions. Statistical features allow for one or two variable analysis. European or U.S. display separator and decimal points.

HP-11C by Hewlett-Packard: \$110.00

A free Solutions Handbook valued at \$20.00 will be shipped with each HP-11C and HP-12C purchased before April 30, 1982.



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