



COMPUTIQUE



CONSUMER ELECTRONICS
VOLUME SIX
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CompuTime once again puts the exciting world of consumer electronics at your fingertips.

Enter the fantastic age of the personal computer. Hewlett-Packard adds to its impressive HP-85 with the introduction of the HP-125, truly a business information center. Apple continues to innovate the personal computer revolution with more new products. Texas Instruments, Atari, and Mattel enhance even further their commitment to the personal computer.

Experience the fun of fabulous new Mattel games, Casio watches, and magic musical keyboards. Now you can control your lights and appliances remotely with the new BSR Telephone Responder. These are but brief highlights of what is new. There is much, much, more.

We look forward to the opportunity to introduce you to this exciting world of electronics by the most respected and proven brand names in the electronics industry.



IMPORTANT INFORMATION



FREIGHT CHARGES & HANDLING

ALL SALES ARE F.O.B. SANTA ANA, CALIF. U.S.A.
Determine the zone in which you are located from the zip code Chart A and calculate costs based on the weight/s of the item/s to be shipped.



ZIP CODE PREFIX

A

Zip Code Prefixes Zone	Zip Code Prefixes Zone	Zip Code Prefixes Zone	Zip Code Prefixes Zone	Zip Code Prefixes Zone	Zip Code Prefixes Zone
006-089 8	420-424 7	500-503 6	600-639 7	726-738 6	875-878 5
100-199 8	425-426 8	504 7	640-648 6	739 5	879 4
200-299 8	427 7	505 6	650-652 7	740-789 6	880-884 5
300-324 8	430-458 8	506-507 7	653 6	790-794 5	890-891 3
325 7	460-466 7	508-516 6	654-655 7	795-796 6	893-898 4
326-339 8	467-468 8	520-560 7	656-676 6	797-799 5	900-933 2
350-361 7	469 7	561 6	677-679 5	800-812 5	934 3
362-363 8	470 8	562-567 7	680-692 6	813 4	935 2
364-367 7	471-472 7	570-581 6	693 5	814-838 5	936-939 3
368 8	473 8	582 7	700-708 7	840-863 4	940-966 4
369-372 7	474-479 7	583-588 6	710-711 6	864 3	970-986 5
373-379 8	480-489 8	590-591 5	712-717 7	865 4	988-994 5
380-397 7	490-491 7	592-595 6	718-719 6	870-871 5	995-998 8
400-402 7	492-497 8	596-599 5	720-725 7	873-874 4	999 7
403-418 8	498-499 7				

Our main shipping carrier is United Parcel Surface Service which covers all Continental USA, some parts of Hawaii and Alaska. UPS will not deliver to P.O. Box. U.S. Priority Mail will be used. UPS Blue Label Air is also available.

U.S. POSTAL PRIORITY MAIL



lbs.	2	3	4	5	6	7	8	CANADA
1-3	3.54	3.54	3.65	3.85	4.09	4.30	4.57	7.00
6	4.54	4.54	4.97	5.44	6.00	6.52	7.14	11.00
12	6.52	6.84	7.59	7.60	10.02	10.95	12.26	19.00
18	8.52	8.90	9.09	11.10	13.65	15.35	17.30	27.00
24	13.01	13.88	15.37	17.92	20.94	23.76	27.01	42.00
36	18.82	20.18	21.66	25.54	30.11	34.38	39.32	61.00
43	21.22	22.50	25.32	29.76	35.51	40.38	46.52	72.00
50	22.90	24.84	28.98	34.39	40.80	46.78	53.68	83.00

We use either surface or Air Parcel Post for the UPS unserved areas of Alaska, Hawaii and Puerto Rico, and Air Parcel Post for Canadian destinations.

UPS SURFACE



LBS	2	3	4	5	6	7	8
1-3	3.40	3.50	3.65	3.80	3.90	4.00	4.10
6	4.00	4.15	4.30	4.55	5.00	5.25	5.75
12	5.45	5.90	6.60	7.30	8.30	9.25	10.20
18	6.80	8.00	8.65	9.50	10.40	12.65	13.65
24	10.02	11.22	12.96	14.10	15.72	18.60	20.70
36	13.44	14.28	15.12	15.90	19.80	24.12	27.36
43	14.76	15.90	17.58	20.88	26.40	27.42	31.44
50	15.18	19.08	20.70	24.84	28.56	30.60	35.64

UPS BLUE LABEL AIR



ZONE	LBS.	A&B	C	D	E
ZONE A: CO, ID, MT, NM, OR, WA, WY	1-3	6.20	7.60	7.60	7.60
ZONE B: IL, IN, IA, KS, KY, MI, MN, MO, NE, ND, OH, OK, SD, TX, WI	6	9.25	9.25	11.05	11.05
ZONE C: AL, AR, CT, DE, DC, FL, GA, LA, ME, MD, MA, MS, NH, NJ, NY, NC, PA, RI, SC, TN, VT, VA, WV	12	15.20	16.60	16.60	18.65
		20.70	22.80	23.50	25.55
ZONE D: HI*	24	32.52	36.10	36.42	38.10
ZONE E: AK*	36	45.12	56.28	50.94	56.28
*Partial Service Only. Call for Points Served.	43	52.56	64.56	58.80	63.78
	50	60.06	72.84	66.24	71.22

For your convenience, we do use Federal Express for overnight and two day delivery by Customer Request. An additional \$2.00 "hand" processing



charge exclusive of Federal Express charges, is added to the total order. When you request Federal Express, please check with us for precise shipping charges.

ORDER TOLL-FREE. 7 DAYS A WEEK.

Mon. thru Fri: 7-6

Saturday: 9-6

Sunday: 11-5

(800) 854-0523

Continental U.S.A.

(800) 432-7066

in California

All orders have priority status, and are put in process immediately upon receipt and clearance of payment, subject to availability, shipping usually within 48 hours. We will make every effort to appraise you of any delay at the time of your order, or in writing shortly thereafter.

Toll-free ordering is for credit card holders only. VISA, BANK AMERICARD, MASTER CHARGE/MASTER CARD are welcome, or mail a CASHIERS CHECK, MONEY ORDER, or PERSONAL CHECK with the return envelope provided.

All forms of payment are processed immediately. However, personal checks and company checks not on net 10 status or not D&B rated A-HH with 1, 2, 3 composite will be held 14 working days for check clearance before shipment of the order.

Before we can process shipment for C.O.D. orders, we need to receive a 5% non-refundable deposit which is applied toward your order. Please add \$1.50 additional "hand" processing charge, exclusive of shipping charges to your C.O.D. order. C.O.D. orders can only be accepted in areas serviced by UPS, and the UPS Driver can ONLY accept cash, money order, or cashiers check.

WE WELCOME FOREIGN SHIPMENTS. Shipping is F.O.B. Santa Ana, CA, U.S.A. For all foreign destinations (except Canada) freight and accessoril charges are COLLECT ONLY to the customer at the time of delivery. Payment must be received in U.S. funds prior to shipment for all foreign destinations.

Please add 10% of your order for handling and "hand" processing (except Canada). Minimum order for foreign destinations is \$100; all P.O. Box destinations must have letter of credit.

COMPANY AND INSTITUTIONAL ACCOUNTS are processed and shipped immediately if D&B rating is A-HH with 1, 2, 3 composite. All others please submit credit information. Minimum open account order is \$25.00; terms NET 10, F.O.B. Santa Ana, California, U.S.A.

As stated above, all other company and institutional checks will be held 14 working days for check clearance before shipment of the order.

All purchase orders must be received in writing before shipment can be expedited.

Computique appreciates the opportunity to bid on large quantities for all universities, colleges, school districts, government agencies, municipalities, aerospace firms, and all others interested in volume purchasing.

Manufacturers are continually updating their product lines with new models. Naturally **PRICES** and **SPECIFICATIONS** are subject to change without notice. We welcome inquiries concerning special orders or merchandise not listed in our catalog.

The **WARRANTY** of the product(s) you purchase from Computique is between you and the respective manufacturer, whatever is so stated in writing by the manufacturer, usually found included in the packaging of the product(s). It is understood that Computique does not guarantee any product, nor is responsible for product specifications or limitations.

As an additional service to our customers we do offer a limited 30 day exchange policy. With proof of sale, we will replace defective units (except when restricted by the manufacturer), subject to availability, and/or exchange the purchase for any other product we sell with credit toward same AT THE PREVAILING PRICE. It is understood that should a price fluctuate, the price at the time of the exchange will prevail.

There are certain computer and watch sale restrictions to this exchange. Please ask our mail order department for details.

Any goods eligible for return must be authorized by our mail order department and are subject to a restocking charge in the event the returned goods are not exchanged for other merchandise.

Computique will continue to maintain our commitment to offering the highest quality brand names in consumer electronics, with emphasis on courteous and professional service. And as always we shall continue to MEET OR BEAT ANY COMPETITOR'S ADVERTISED PRICE ON MOST ITEMS IF HE HAS THE MERCHANDISE IN STOCK.

NEW

INTRODUCING THE HP-11C

THE WHOLE IS GREATER THAN THE SUM OF ITS PARTS

The slim-line HP-11C is an advanced scientific programmable calculator that gives you the power to tackle everyday computational problems in science, math, or engineering. You'll make short work of long and repetitive calculations using the HP-11C's powerful programming features and extensive set of built-in functions. All this capability goes with you...when and where you need it. The rugged, slim-line case makes the HP-11C an ideal shirt-pocket companion.

The HP-11C performs scientific functions including hyperbolics and their inverses simply by pressing a key. Make conversions between degrees and radians, or rectangular and polar coordinates. Solve for logarithms, exponentials, factorials, gammas, permutations, combinations, and percent changes. Conduct analyses on data pairs using the statistics keys, even linear regression by the least squares method is push-button easy.

PROGRAMMING FEATURES

Up to 203 program lines, automatic memory allocation, five single-character program labels and ten numeric program labels, program review (single-step and back-step), insert/delete editing, unconditional branching, four levels of subroutines, eight conditional tests, two flags, pause, controlled looping, integer/fraction truncation, user mode, indirect control of data storage and recall, storage register arithmetic, branching and looping.

SCIENTIFIC FEATURES

Solves trigonometric functions (in degrees, radians and grads) for Sin, Cos, Tan and their inverses, hyperbolics and inverses. Converts from rectangular coordinates to polar coordinates, from decimal angles to angles in degrees (hrs/min/sec) and degrees to radians. Operates in fixed, scientific and engineering notation with automatic overflow/underflow into scientific.

STATISTICAL FEATURES

Percent, percent change, mean/standard deviation (1-or-2-variable), summations (Σx , Σx^2 , Σy , Σy^2 , Σxy , n), linear regression/estimate, correlation coefficient, factorials, gamma functions, permutations and combinations, random number generator.

GENERAL FEATURES

\pm , $\pm X$, $\pm yx$, x , $1/x$, Change Sign (CHS), $\ln X$, e^x , $\log X$, 10^x , x^2 , π , absolute value, integer/fraction part, round, storage register arithmetic.

OPERATING FEATURES

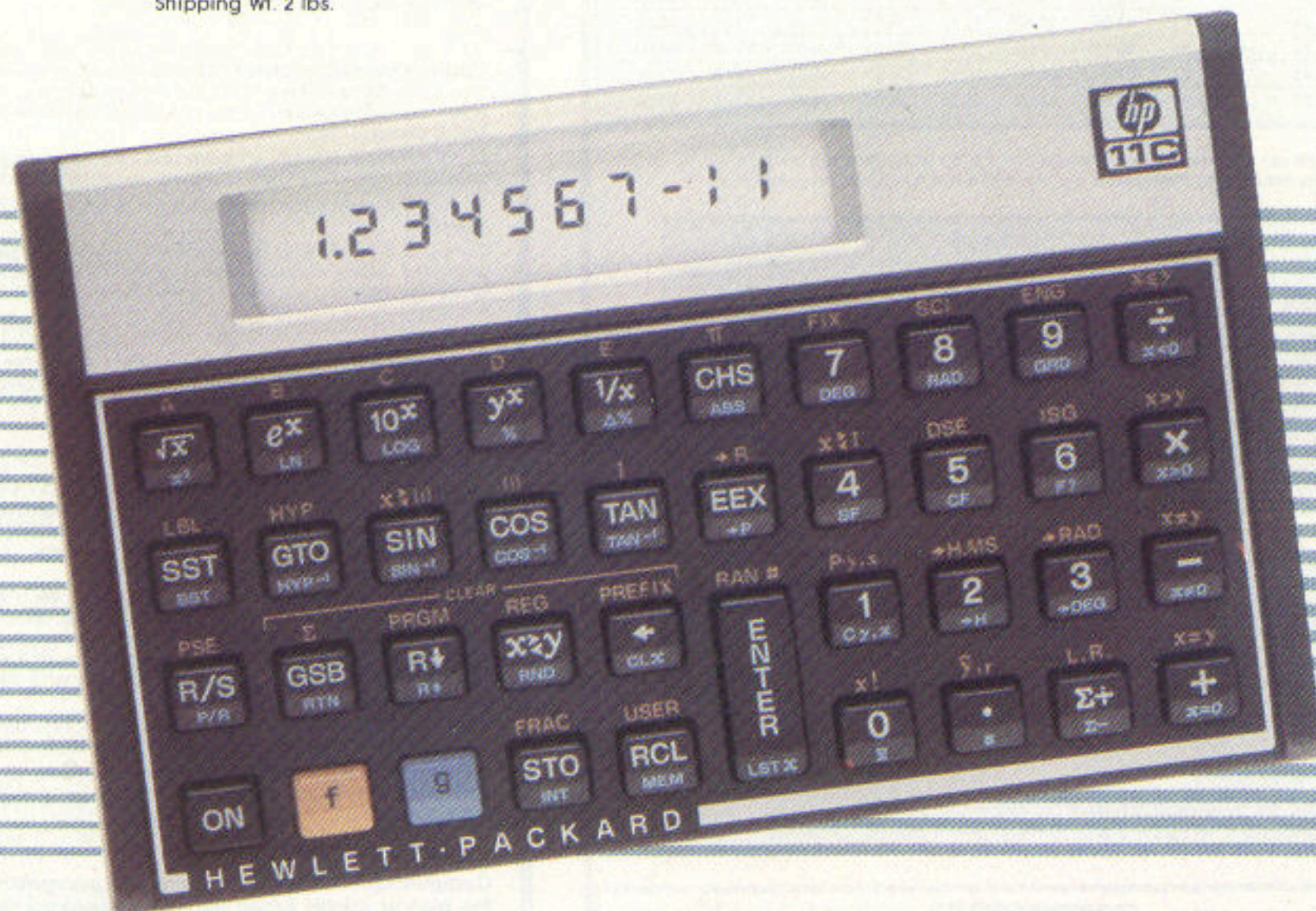
Liquid crystal display RPN logic system with automatic four-memory stack, error recovery (last x) and manipulation. Up to 21 storage registers, Continuous Memory. Ten digit display and accuracy, diagnostic self-check without program or data loss, error codes/messages, reassignable keys, status annunciators, automatic power off, one-year limited warranty, display separates thousands. The HP-11C comes complete with **Owner's Handbook and Problem-Solving Guide**, long-life disposable batteries, and soft carrying case.

- Easy Portability — Four Ounces Light, Half an Inch Slim
- Continuous Memory to Save Your Programs and Data
- Liquid Crystal Display With Large Numbers — Easy to Read Even in Brightest Sunlight
- Long-Lasting Performance Using Standard Batteries

SPECIFICATIONS

Size: 12.7 x 8 x 1.5 cm (5 x 3 1/8 x 5/8 in)
Weight: 113 g (4 oz)

\$119.95
SUGG. RETAIL \$135.00
Order No. HP11C
Shipping Wt. 2 lbs.



NEW

INTRODUCING THE HP-12C

MORE FINANCIAL SOLUTIONS IN YOUR POCKET

The HP-12C Financial Programmable, never before has Hewlett-Packard put so many business functions into one calculator. With a few quick keystrokes, suddenly you're solving interest and amortization problems, discounting cash flows, finding bond yields, determining depreciation schedules, or examining business trends. When facing long and repetitive analyses, cut them down to size with programmability. Either write your own programs or take advantage of HP's ready-to-go solutions in the **Owner's Handbook and Problem-Solving Guide**. Within minutes, you can be running time-saving calculations ranging from real estate analysis to leasing decisions. Additional prewritten program solutions in lending, forecasting, pricing, statistics, savings, investment analysis, personal finance are available in the **HP-12C Solutions Handbook**.

All this capability is surrounded by a rugged, slim-line case designed to give you years of dependable performance coupled with lightweight portability. Just slip the HP-12C in your pocket or briefcase and you've got the calculating power at your fingertips.

PROGRAMMING FEATURES

Up to 99 program lines, automatic memory allocation, program review (single-step, back-step), unconditional branching, two conditional tests, and pause.

BUSINESS FUNCTIONS

Solves for: number of periods (n), compound interest (i), present value (PV), payment (PMT), and future value (FV). Bond yield-to-maturity and price, amortization (both accumulated interest and remaining balance), net present value (NPV), internal rate of return (IRR), depreciation (sum-of-years' digits, declining balance, and straight-line), odd days' interest, simple interest, Percent, percent change, percent of total, calendar functions, beginning/end of period selection, five financial registers.

STATISTICAL FUNCTIONS

Mean/standard deviation (1- or 2-variable), summations (Σx , Σx^2 , Σy , Σy^2 , Σxy , n), linear regression/estimate, correlation coefficient, factorials.

GENERAL FUNCTIONS

π , $\frac{1}{x}$, x^y , $\frac{1}{y}$, x^2 , $\frac{1}{x}$, x^3 , Change Sign (CHS), LN, e^x , integer/fractional truncation, storage register arithmetic.

OPERATING FEATURES

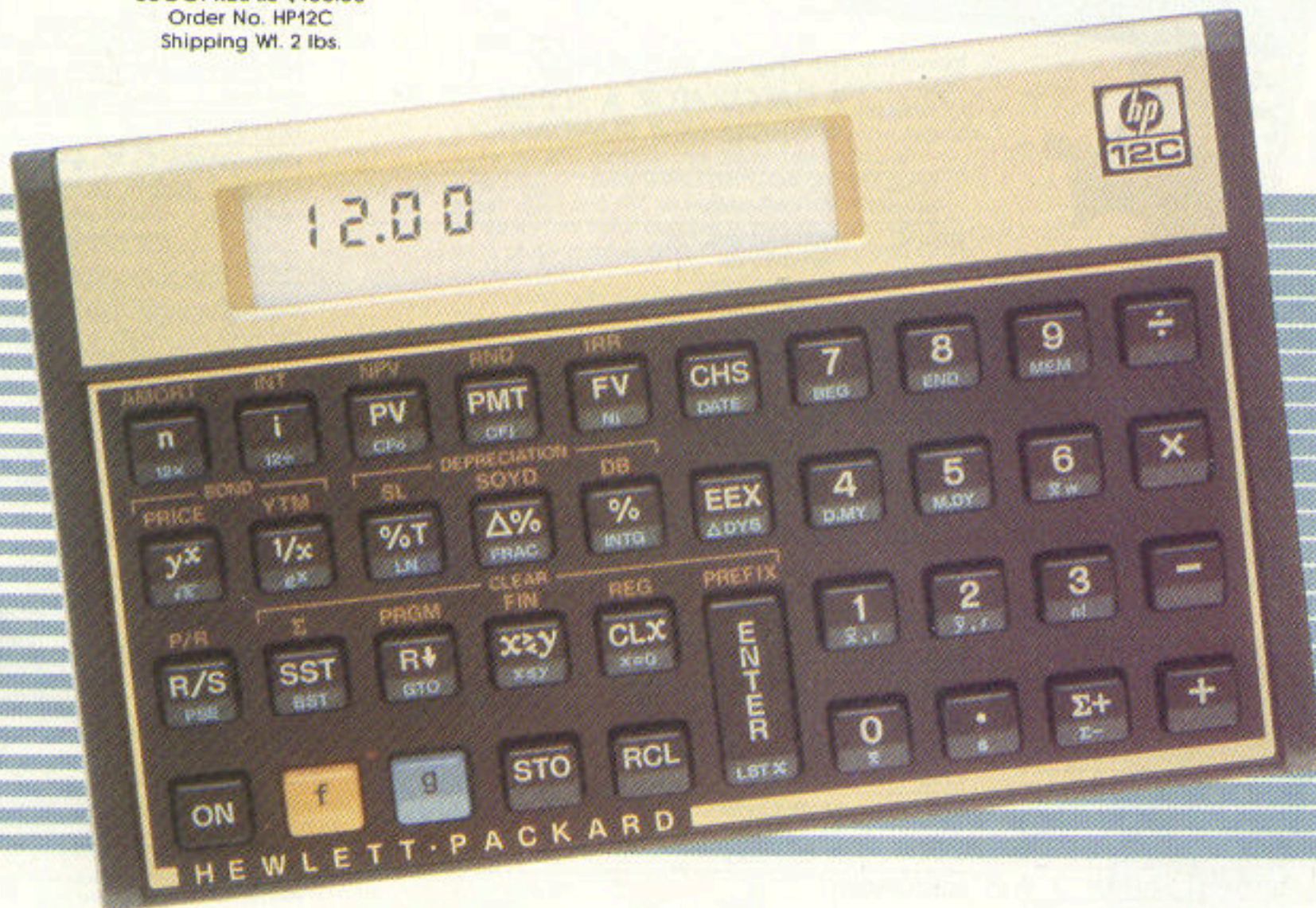
Storage register arithmetic, fixed and scientific notation, automatic overflow/underflow, Continuous Memory, liquid crystal display, automatic power-off, diagnostic self-check without program or data loss, error codes/messages, status annunciators, display separates thousands, RPN logic system (automatic four-memory stack), error recovery (last x), stack manipulation, 20 storage registers, ten digit display and accuracy, one-year limited warranty. The HP-12C comes complete with **Owner's Handbook and Problem-Solving Guide**, long-life disposable batteries, and soft carrying case.

- Travels light — only four ounces
- Never forgets — continuous memory saves programs and data
- Includes quality HP support — easy-to-use handbooks, prewritten programs, and customer service
- Runs on long-lasting standard batteries

SPECIFICATIONS

Size: 12.7 x 8 x 1.5 cm (5 x 3 1/8 x 5/8 in)
Weight: 113 g (4 oz)

\$134.95
SUGG. RETAIL \$150.00
Order No. HP12C
Shipping Wt. 2 lbs.



**HP-41C
ALPHANUMERIC
FULL PERFORMANCE
PROGRAMMABLE
WITH CONTINUOUS
MEMORY**



Hewlett-Packard's most powerful calculator ever!

The HP-41C is HP's most powerful calculator ever, and yet it's remarkably easy to use. It communicates in words, as well as numbers, allowing you to input to the calculator in English and receive output in the same manner. Status annunciators inform you of operating modes and battery life at all times. Comprehensive error messages pinpoint calculation errors.

The HP-41C has impressive power, with over 400 lines of program memory, or 63 registers of data storage. Or any combination. And memory modules can expand your HP-41C to an incredible 2,000 lines of program memory or 319 registers for data storage — or any combination.

The HP-41C features over 130 standard operations — the most comprehensive function set ever. And you can assign any of these functions or any program you have written to any key, allowing you to personalize your calculator for your own special needs.

Continuous Memory gives you the convenience of preserving everything from stored data to user-defined keyboard assignments even when the calculator is turned off. And the liquid crystal display (LCD) is easy to read even in bright light.

**THE HP-41C OR HP-41CV
...WHICH ONE FOR YOU?**

The unique difference between the HP-41C and HP-41CV is that the HP-41CV has 5 times more memory built-in. Specifically, it contains 319 storage registers versus 63 storage registers in the HP-41C. For those of you who have programming experience, the HP-41CV gives you the memory capacity to store a host of programs continuously. And with all this memory built-in, you have four free ports to add the peripherals of your choice, making your system even more powerful and versatile.

If you are new to programming or your needs do not require full memory capabilities immediately, start with the HP-41C. As your need for memory increases, add a Quad Memory Module or up to 4 memory modules to meet your increasing computational needs.



Memory Modules

The Printer



The Optical Wand



**The HP-41C & 41CV
A CALCULATOR. A SYSTEM.
A WHOLE NEW STANDARD.**

The Card Reader



HP-41 APPLICATION PACS

Order Number	Description	Sugg. Retail	YOUR COST	Ship. Wt. (lbs.)
HP4115018	Aviation Pac	\$ 30.00		2
HP4115005	Circuit Analysis Pac	30.00		2
HP4115024	Clinical Lab & Nuclear Medicine Pac	30.00		2
HP4115004	Financial Decisions Pac	30.00		2
HP4115022	Games	30.00		2
HP4115023	Home Management Pac	30.00		2
HP4115021	Machine Design Pac	30.00		2
HP4115003	Mathematics Pac	30.00		2
HP4115017	Navigation Pac	30.00		2
HP4115039	Petroleum Fluids Pac			Under development
HP4115016	Real Estate Pac	45.00		2
HP4115026	Securities Pac	30.00		2
HP4115002	Statistics Pac	30.00		2
HP4115027	Stress Analysis Pac	30.00		2
HP4115021	Structural Analysis Pac	45.00		2
HP4115005	Surveying Pac	30.00		2
HP4115019	Thermal & Transport Science Pac	30.00		2

Order Number	Description	Sugg. Retail	YOUR COST	Ship. Wt. (lbs.)
HP-41C	Alphanumeric Full Performance Programmable w/Continuous Memory (441 Bytes)	250.00	194.95	3
HP-41CV	Alphanumeric Full Performance Programmable w/Continuous Memory (2,233 Bytes)	325.00	269.95	4
HP-41 Peripherals				
HP82104A	Plug in Card Reader	215.00	181.00	1
HP82143A	Printer/Plotter, Battery-Operable	385.00	299.95	4
HP83153A	Optical Wand	125.00	109.95	2
HP-41 Accessories				
HP82106A	Memory Module	30.00	27.95	1
HP82170A	Quad Memory Module	95.00	84.95	1
HP4115001	Standard Application Module	30.00	27.95	2
HP82152A	Overlay Kit		7.50	1
HP82120A	Multipurpose Rechargeable Battery Pack	30.00	27.95	1
HP8215390019	"Creating Your Own Bar Code" Manual		12.50	1
HP82151A	Module Holders(2)		7.50	1
HP82172A	50 Blank Overlays	55.00	53.95	1

Please see p 6 for additional HP-41 Accessories

HP-41C SOLUTIONS BOOKS

Order Number	Description	Sugg. Retail	Ship. Wt. (lbs.)
BUSINESS:			
HP4190094	Business Statistics/Marketing/Sales	\$ 12.50	1
HP4190096	Home Construction Estimating	12.50	1
HP4190086	Lending, Savings & Leasing	12.50	1
HP4190136	Real Estate	12.50	1
HP4190137	Small Business	12.50	1
HP4190222	Taxes	12.50	1
ENGINEERING:			
HP4190093	Antennas	12.50	1
HP4190100	Chemical Engineering	12.50	1
HP4190089	Civil Engineering	12.50	1
HP4190092	Control Systems	12.50	1
HP4190088	Electrical Engineering	12.50	1
(A) Under development			
HP4190139	Fluid Dynamics & Hydraulics	12.50	1
HP4190140	Heating, Ventilating & Air Conditioning	12.50	1
HP4190090	Mechanical Engineering	12.50	1
HP4190138	Solar Engineering	12.50	1
HP4190141	Surveying	12.50	1
COMPUTATION:			
HP4190084	Geometry	12.50	1
HP4190083	High-Level Math	12.50	1
HP4190082	Test Statistics	12.50	1
OTHER:			
HP4190145	Calendars	12.50	1
HP4190097	Cardiac/Pulmonary	12.50	1
HP4190102	Chemistry	12.50	1
HP4190099	Games	12.50	1
HP4190143	Optometry I (General)	12.50	1
HP4190144	Optometry II (Contact Lens)	12.50	1
HP4190142	Physics	12.50	1

SCIENTIFIC

HP-32E

SCIENTIFIC WITH STATISTICS

The HP-32E is the most powerful preprogrammed scientific calculator Hewlett-Packard has ever made.

Designed specifically for the scientific and engineering professionals and students who need to solve complex scientific problems, including trigonometry, logarithms, and metric conversions—all at the touch of a key. It also solves basic and advanced statistical problems such as percent, summations, two-variable means and standard deviations, and linear regression. Providing 9 user plus 6 statistical storage registers, the HP-32E is powerful, yet easy to use.

\$44.95

SUGG. RETAIL \$55.00

Order No. HP32E

Shipping Wt. 2 lbs.

HP-33C

PROGRAMMABLE SCIENTIFIC WITH CONTINUOUS MEMORY

When you are ready to step up to a programmable make the HP-33C your choice!

This entry level keystroke programmable features fundamental programming capability as well as a complete set of preprogrammed scientific functions. With 8-user storage registers and a program capacity of 49 fully-merged lines, the HP-33C's easy-to-master programming capability can perform repetitive scientific calculations quickly and accurately. And the Continuous Memory feature lets you retain programs and data even when the calculator is off.

\$74.95

SUGG. RETAIL \$90.00

Order No. HP33C

Shipping Wt. 2 lbs.

HP-34C ADVANCED PROGRAMMABLE SCIENTIFIC WITH CONTINUOUS MEMORY

The HP-34C incorporates the most advanced programming capabilities in a keystroke programmable.

Designed for technical professionals and students who need the flexibility and power of advanced programming to handle their frequent and repetitive problems, as well as a full set of preprogrammed scientific functions including the new and powerful "Solve" and "Integrate" functions.

The HP-34C is the only calculator available with these two function keys: "Solve," which finds real roots for an incredibly wide range of functions; and "Integrate," which computes the area of a function bounded by upper and lower limits. Additionally, the HP-34C has HP's Continuous Memory feature, which lets you retain programs and data even when the calculator is turned off.

The advanced programming features of the HP-34C include 12 addressable labels, insert/delete editing, and a dynamically controlled memory that varies between 210 program lines and 21 user storage registers. Limited Quantities.

\$119.95

SUGG. RETAIL \$150.00

Order No. HP34C

Shipping Wt. 2 lbs.

FINANCIAL

HP-37E BUSINESS

Do you have business and financial decisions to make? Let the HP-37E preprogrammed business calculator help you.

This entry-level preprogrammed calculator is designed to assist real estate agents, retailers, managers, financial analysts, and business students in solving financial problems quickly and easily.

For optimum efficiency, the HP-37E has built-in price and percent functions, advanced statistical functions, and the important time and money functions required by business professionals today: number of periods, (n); interest, (i); present value, (PV); payment, (PMT); and future value, (FV). The HP-37E also calculates amortization schedules, yields with a balloon, and compound interest problems. Featuring 5 financial and 7 user storage registers, the HP-37E is powerful as well as easy-to-use.

\$63.95

SUGG. RETAIL \$75.00

Order No. HP37E

Shipping Wt. 2 lbs.

HP-38C ADVANCED FINANCIAL PROGRAMMABLE WITH CONTINUOUS MEMORY

With today's ever changing economy, the need to solve repetitive financial problems and perform advanced financial analyses quickly and accurately is a must. HP's most powerful financial calculator, the HP-38C, handles these problems with ease.

The HP-38C offers a multitude of built-in financial functions for professional real estate agents, financial analysts, accountants, bankers, managers, and business students. Featuring 20 user storage registers, the HP-38C provides the advanced financial functions of discounted cash flow analysis using both NPV and IRR, as well as the basic time and money functions: number of periods, (n); interest, (i); present value, (PV); payment, (PMT); and future value, (FV).

Additionally, the HP-38C extends its problem-solving power with an easy-to-master programming capability that lets you solve repetitive financial and investment analysis problems quickly and easily. Repetitive calculations are easily handled with up to 99 lines of keystroke programming. And the Continuous Memory feature lets you retain programs and data even when the calculator is turned off.

And with the HP-38C, you can create your own programs or choose from the following HP applications books:

Real Estate; Real Estate II (Income Property Analysis); Investment Analysis and Statistics; Lending, Savings, and Leasing; Marketing and Forecasting; Personal Finance.

\$119.95

SUGG. RETAIL \$150.00

Order No. HP38C

Shipping Wt. 2 lbs.



HP-32E



HP-33C



HP-34C



HP-37E



HP-38C

HEWLETT PACKARD CALCULATOR ACCESSORIES PRICE LIST

Order Number	Description	Your Cost	Shipping Wt. (In lbs.)
SECURITY CRADLE OR CABLE			
HP62015A	HP-67, HP-65	30.00	2
HP62044A	82143A Printer/Plotter, HP-97, HP-92, HP-91 (Cable)	10.00	2
CALCULATOR/PRINTER SUPPLIES			
Blank Program Cards for 82104A Card Reader, HP-97, HP-65:			
HPR9713141	40 Card Pac w/Holder	20.00	1
HPR9713143	120 Card Pac w/3 Holders	45.00	1
HPR9713206	1000 Card Pac (No Holders)	195.00	2
HP62051A	Thermal Printing Paper for HP-10, HP-19C — 6 rolls	6.00	1
HP62045A	Thermal Printing Paper for 82143A Printer/Plotter, HP-97, HP-92, HP-91 — 6 rolls	6.00	2
HPR9713142	3 Program Card Holders for 82104A Card Reader, HP-67, HP-97, HP-65	10.00	1
HPR9713154	Program Pad for HP-19C, HP-29C, HP-25, HP-33E/C, HP-34C, HP-38E/C, HP-65, HP-67, HP-97	4.00	2
HP-41C/CV	Applications Facts and Solutions Books	Please see Page 4	
HP-67/97 APPLICATION PACS			
HPR6713101	HP-67 Standard Pac	35.00	2
HPR9713101	HP-97 Standard Pac	35.00	2
HPR9713144	Business Decision Pac	35.00	2
HPR9713195	Civil Engineering Pac	35.00	3
HPR9713165	Clinical Lab & Nuclear Medicine Pac	35.00	2
HPR9713131	Electrical Engineering Pac I	35.00	2

FULLY PROGRAMMABLE HP-67 HANDHELD FULLY PROGRAMMABLE and HP-97 DESKTOP FULLY PROGRAMMABLE PRINTING

The HP-67 offers exceptional power to handle your lengthy and repetitive problems. For those who prefer a desktop version, the HP-97 offers all the capabilities of the HP-67 plus the convenience of a built-in printer — all battery operable.

These proven performance calculators are ideal for the most demanding professionals and students, providing the flexibility of magnetic cards, plus the programming power and versatility to handle lengthy scientific and business programs.

Keystroke programming makes programming the HP-67/97 as simple as pressing the keys. Editing features to easily correct and modify your programs enhance both calculators. All commonly used mathematical, trigonometric and statistical functions are included. The HP-67/97 features up to 224 program lines plus 26 storage registers. The HP-67 comes in the classic handheld size, while the HP-97 is available in the compact desktop version.



HP-67

\$299.95
SUGG. RETAIL \$375.00
Order No. HP67
Shipping Wt. 6 lbs.
Limited Quantities

HP-97

\$584.50
SUGG. RETAIL \$750.00
Order No. HP97
Shipping Wt. 7 lbs.

HPR9713185	Games Pac	35.00	2
HPR9713121	Math Pac I	35.00	2
HPR9713155	Mechanical Engineering Pac I	35.00	2
HPR9713205	Navigation Pac	35.00	2
HPR9713111	Statistics Pac I	35.00	2
HPR9713175	Survey Pac I	35.00	2
SERIES E/C APPLICATION BOOKS			
HP-33E/C			
HPR3390067	Standard Applications	5.00	1
HPR339003X	Mathematics Applications	5.00	1
HPR3390031	Statistics Applications	5.00	1
HPR3390032	Student Engineering	5.00	1
HPR3390033	Surveying Applications	5.00	1
HP-34C			
HPR3490022	Standard Applications	8.00	2
HPR3490032	Mathematics Applications	8.00	2
HPR3490033	Statistics Applications	8.00	2
HPR3490034	Surveying Applications	8.00	2
HPR3490035	Student Engineering	8.00	2
HP-37E, HP-38E/C			
HPR59553016	"Your HP Financial Calculator"	2.00	1
HPR3890024	Real Estate Applications	2.00	1
HPR3890025	Lending, Savings & Leasing Applications	5.00	1
HPR3890026	Investment Analysis & Statistics Applications	5.00	1
HPR3890049	Marketing & Forecasting Applications	5.00	1
HPR3890051	Real Estate II (Income Property Analysis)	5.00	1
HP-38E/C			
HPR3890052	Personal Finance Applications	5.00	1
HP-41C			
HPR4190018	Standard Applications	10.00	1
HP-11C			
HPR1190009	Solutions Handbook	\$ 20.00	1
HP-12C			
HPR1290009	Solutions Handbook	\$ 20.00	1
OWNER'S HANDBOOKS			
HPR1190001	HP-11C	\$ 10.00	1
HPR1290001	HP-12C	\$ 10.00	1
HPR3290001	HP-32E	2.00	1
HPR3390039	HP-33E/C	10.00	1
HPR3490001	HP-34C	10.00	1
HPR3790001	HP-37E	2.00	1
HPR3890038	HP-38E/C	10.00	1
HPR4190013	HP-41	15.00	2
HPR4190028	HP-41 Guide for Experienced Users	5.00	1
HPR4191041	Card Reader	10.00	1
HPR4191431	Printer	10.00	1
HPR6790011	HP-67	10.00	1
HPR9790001	HP-97	10.00	1
BATTERY PACK			
HP82109A	HP-31E, HP-32E, HP-33E/C, HP-34C, HP-37E, HP-38E/C	6.00	1
HP82001A	HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-60	12.50	1
HP82033A	82143A Printer/Plotter, HP-97, HP-92, HP-91	18.00	1
HP82062A	HP-10, HP-19C	20.00	1
HP-82019B	HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C	10.00	1
RECHARGER/AC ADAPTER			
HP82087A/B	Recharger 110V E/C Series	10.00	1
HP82002A	HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80 (110/220 Vac Switchable)	20.00	1
HP82069B	82143A Printer/Plotter, 82120A, HP-97, HP-92, HP-91, HP-10, HP-19C (110 Vac)	10.00	1
HP82066B	82143A Printer/Plotter, 82120A, HP-97, HP-92, HP-91, HP-10, HP-19C (Euro 220 Vac)	25.00	1
SOFT CASE			
HP62174A	HP-11C, HP-12C	\$ 5.00	1
HP82110A	E/C Series	5.00	1
HP82111A	HP-41 (plus card reader)	10.00	1
HP82063A	HP-67, HP-65 (soft vinyl)	10.00	1
HP82035A	HP-97, HP-92, HP-91	10.00	1
HP82027A	HP-29C	6.00	1
HP82064A	HP-10, HP-19C	8.00	1

6 DIGIT CLOCK/ CALCULATOR COMBINATION LQ-200

Large Liquid Crystal Display With Day/Bell Mark, AM/PM Indication, 3 Alarm System (Alarm I, Alarm II, Timer Alarm), Auto Calendar, 5 Minute Snooze Facility, Stopwatch (Deci-Second) Clock Accuracy ± 20 Seconds/Month, Approx. 7,000 Hours Opn. (Cont.) on 1 Set Batt. — DC 3.0V (Button Battery x 2). (W)2.7"(H)0.4"(D)2.7".

\$29.95
Order No. TOSLQ200
Shipping Wt. 1 lb.



SOLAR CALCULATOR LC-847

8 digits and sign digit multi-digit liquid crystal display. Full floating decimal point. Addition, Subtraction, Multiplication, Division, Mixed calculation, Constant calculation, Power calculation, Add on/Discount calculation, Square root, Percentage calculation, Memory calculation, and other applied calculation. Solar battery. 4-3/8"(L)x2-1/2"(W)x1/4"(D). Carrying case.

\$19.95
Order No. TOSLC847
Shipping Wt. 1lb.



BC-1232 PV



BC-1233 PV



BC-1022 PV



DISPLAY/PRINTING CALCULATORS

BC-1022 PV

Desktop Calculator with Large, Bright 10 Digit Display. High Speed Print-Out (2.5 Lines Per Sec.) — Independent 4 Key Memory. Selectable Decimal. Auto Item Count, Round Off and Constant. MU, Date, Non-Add Key, Sigma Switch, Slide SW: Print/Non-Print, Total/Subtotal Register. Large, Well Positioned Key Tops For Easy Operation — 2-1/4" Paper. (W)8.3"(H)2.6"(D)10".

\$79.95
SUGG. RETAIL \$99.95
Order No. TOSBC1022P
Shipping Wt. 5 lbs.

BC-1232 PV

12 Digit Print-Display Visual Calculator — Large, easy to read Punctuated Print-Out, Full 4-Key Memory. High Speed Printer — 2.5 lines per second, Black & Red Ribbon (negative entries and credit balances in red). Automatic Constant in Multiplication and Division, Automatic Accumulation of Products and Quotients, Automatic Percent Key, including Add-On/Discount Function, Automatic Item Counter, Automatic Round-Off at Each Preset Decimal Position. Decimal Settings — Add-Mode, Full-Float, 0, 2, 3, 4. Date Key/Listing or Non-Add Key, Double Zero Key, Change Sign Key, Repeat Add-Subtract, Auto-Recall of Last Total, Clear Entry clears all keys, Paper Feed Key or "Pull Through" Paper Feature. Dimensions: 11.0"(L)x8-3/16"(W)x3.0"(D).

\$89.95
SUGG. RETAIL \$109.95
Order No. TOSBC1233P
Shipping Wt. 8 lbs.

BC-1233 PV

Desktop Calculator with Large, Bright 12 Digit Display. High Speed Print-Out (2.5 Lines Per Sec.) — Independent 4 Key Memory. Selectable Decimal. Auto Item Count, Round Off and Constant, Slide SW: Print/Non-Print, Total/Subtotal Register. Large, Well Positioned Key Tops For Easy Operation — 2-1/4" Paper. (W)8.3"(H)2.6"(D).

\$99.95
SUGG. RETAIL \$119.95
Order No. TOSBC1232P
Shipping Wt. 8 lbs.



PRINTER/DISPLAY CALCULATORS

TI-5010

Portable, hand-held printer/display calculator for home, school or travel

The compact TI-5010 prints out a permanent copy of your calculations at 1.5 lines per second on 1 1/2-inch plain paper tape — wherever you are. Offers 10-digit print-out with audit trail and a 10-digit LCD display that shows decimal, comma and status indicators. Printer on/off switch lets you save paper when you don't need permanent records. Versatile 4-key date/number key, automatic constant, decimal 00 key make even lengthy calculations easy. Powered by AA penlight batteries or from a standard wall outlet with an optional AC adapter. Batteries and vinyl carrying case included.

\$49.95

SUGG. RETAIL \$60.00

Order No. TI5010

Shipping Wt. 3 lbs.



TI-5135

Economical printer/display calculator for office and home

Especially designed for business executives so it has all the features an executive needs. That means having both a display for fast calculations and a tape produced by a thermal printer.

Use the display alone or display plus printer when the job demands it. The 10-digit display is easy to read with commas and decimal point. The thermal printer is quiet enough to use when you're on the phone, and it eliminates ribbons and ink.

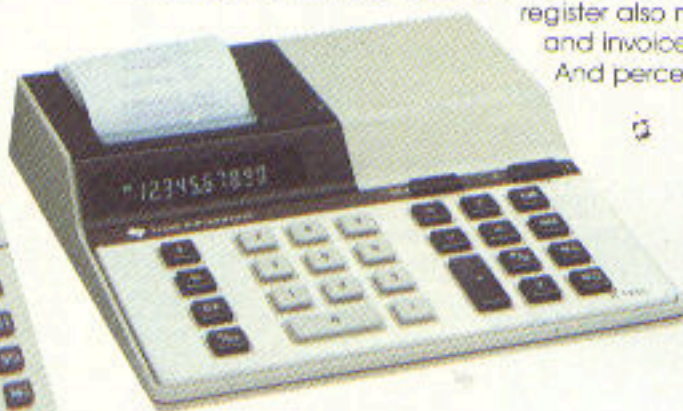
You'll make quick work of most problems with features like: Four-function memory and independent odd register for "dual-memory" capability. Add register also makes the extensions, cross footing, and invoices easier. Automatic constant. And percent key.

\$79.95

SUGG. RETAIL \$90.00

Order No. TI5135

Shipping Wt. 5 lbs.



TI-5120

Affordable, desk-top printer calculator for home or office

A touch operators dream with many of the convenience features you'd find on a heavy business machine. The sleek, desk-hugging TI-5120 offers a 10-digit printout of your calculations on 2 1/2-inch plain paper tape. Features include four-key memory, independent odd register, automatic percent and constant key, item counter, decimal select and 5/4 round up/down switch. Styled to be lighter and more compact than most business machines, the TI-5120 is perfect for light office work or home use, economically priced, and designed for ease and comfort of use. Large, sculptured keys, long travel keyboard, 10-level keyboard buffering and two-key rollover to reduce fatigue and risk of error.



\$59.95

SUGG. RETAIL \$75.00

Order No. TI5120

Shipping Wt. 5 lbs.



TI-5142

Business features plus plain paper printer and display

When you're getting down to business, here is the calculator to get. It has all the convenience features that help you get the right answers.

Switch on the dependable 12-digit mechanical printer, which delivers a fast 2.5 lines per second when a record is needed. An easy-to-read, 12-digit vacuum fluorescent display with commas and decimal point lets you save on paper if you wish.

There are enough other features to solve most business and accounting problems like: Long-travel keyboard. Full-function memory. Mark up/down. Decimal point selection. Percent and Δ percent keys. Plus/minus change. And a special dating/numbering key.

Heavy-duty construction helps it stand up to the tough day-to-day use.

\$99.95

SUGG. RETAIL \$140.00

Order No. TI5142

Shipping Wt. 5 lbs.

TI-5130

Sleek, desk-top calculator with dependable, plain paper printer and easy-to-read display

For office or home, the TI-5130 offers all the features of the TI-5120 with the added convenience of a bright 10-digit display. Its easy-to-read 6.5 mm characters appear in a soft green, vacuum fluorescent light that's never harsh. For economy, the printer on/off switch lets you use standard 2 1/2-inch plain paper when you need permanent records of your calculations.

Designed for the touch operator, the TI-5130 has large, sculptured keys, long travel keyboard, 10-level keyboard buffering and two-key rollover. Perfect for all but the most demanding accounting problems, the TI-5130's features include 4-key memory, independent odd register, percent and constant, date/non-add key, decimal select, automatic 5/4 rounding up/down.



\$79.95

SUGG. RETAIL \$90.00

Order No. TI5130

Shipping Wt. 5 lbs.

IT'S FUN TO DISCOVER NEW WORLDS WITH TODAY'S ELECTRONICS

Touch & Tell™

For pre-schoolers,
ages 2 to 5

It's newest talking learning aid combines touch, sight and sound to help your child associate the right words with corresponding pictures. It also expands your child's vocabulary while teaching early learning concepts (colors, shapes, familiar objects, etc.)

The touch-sensitive keyboard is designed to respond to the touch of a small hand, and the variety of colorful pictures attracts and holds your child's attention. The voice created through TI's modern Solid State Speech™ technology identifies the picture as soon as it is touched, and prompts your child to find the picture that goes with the spoken word. Built in special sound effects and musical tones to add excitement to the learning process.

Besides the two double-sided picture panels with Touch & Tell, you receive a home storage library. Use it to store additional learning modules and picture panel sets which you can purchase to further broaden your child's horizon and vocabulary. See page 13 for details.

NEW \$49.95 Order No. TITCHLL
Shipping Wt. 3 lbs.
SUGG. RETAIL \$60.00

Speak & Spell™

Grades
1 through 8

The first talking electronic learning aid with Solid State Speech™, Speak & Spell™ has captured the imagination of parents and teachers everywhere. Speak & Spell can help the student become a better speller. Created with the guidance of leading educators, it involves the student in three ways: hearing the word, spelling the word, and seeing the word...reinforcing the learning process.

Speak & Spell lets students progress at their own pace through a primary vocabulary of over 150 words in four levels of difficulty. These are frequently used words which don't follow normal spelling rules. In addition to spelling and pronunciation drills, Speak & Spell even keeps score, so your child can receive feedback on progress and be motivated to improve.

Speak & Spell comes with a colorful 32-page activity book and an earphone to let your child learn in private, if he so chooses. In addition, a whole family of optional plug-in Solid State Speech modules expand Speak & Spell's capabilities to fit your child's growing needs. See page 13 for details. An optional battery-saving AC adapter is also available.

\$59.95 Order No. TISPKSPL
Shipping Wt. 3 lbs.
SUGG. RETAIL \$75.00

Speak & Read™

Pre-school
through 3rd
grade

It's Speak & Read™ electronic learning aid duplicates the human voice, and helps children to build beginning reading skills. It introduces more than 250 of the most basic English words. Its many challenging activities are based on a combination of the most important educational methods of reading development. The "Word Zapper" and "Hear It" functions encourage children to recognize words and alphabet letters on sight as they hear the correct pronunciation. Bright, fun activities, such as "Picture Read" develop vocabulary skills and word meaning, while "Read It" helps develop reading comprehension and the ability to draw conclusions from clues within the context. And through its unique Solid State Speech™ capability, Speak & Read can help the child learn to build words with sounds and syllables through word families such as cat/hat/sat.

Most of Speak & Read's activities have three selectable levels of difficulty, so that your child will continue to be challenged as his or her skills grow. And children are motivated to improve their skills with positive verbal reinforcement after each activity.

Speak & Read comes with a colorful 64-page activity-filled reading book, earphone, and sturdy carrying case. Each module contains an additional word list and 64-page book to improve reading skills progressively through third-grade level. An optional AC adapter for use with home electrical current is also available. See page 13 for details.

\$59.95 Order No. TISPKREAD
Shipping Wt. 3 lbs.
SUGG. RETAIL \$75.00

Speak & Math™

Grades
1 through 6

For mathematics, TI's Speak & Math™ electronic learning aid can make learning basic skills fun with exciting sight-and-sound activities that include the remarkable new dimension of the human voice. Students combine the senses of sight, hearing and touch to gain valuable practice with more than 100,000 mathematical problems in addition, subtraction, multiplication and division. Speak & Math also gives word problems and introduces beginning concepts in geometry and algebra.

Its fast-paced problem-solving drills, like the mind-teasing "Number Stumper", help stimulate logical thinking while they improve retention of the basic "tables". The "Word Problems" exercise helps strengthen recognition of common spoken expressions used in math concepts, such as decimals, remainders and terms from beginning geometry. "Greater Than/Less Than" helps the child build valuable skills in estimation, and "Write It" helps sharpen the ability to write spoken numerals. Speak & Math praises correct answers and encourages the child to try again when answers are wrong.

A colorful 32-page activity book adds to the fun and helps reinforce classroom instruction. And Speak & Math's large memory capacity provides a generous sampling of math problems taught in grades 1 through 6 in three levels of challenge. An earphone is included for quiet use, and an AC adapter for use with home electric current is also available.

\$59.95 Order No. TISPKMTH
Shipping Wt. 3 lbs.
SUGG. RETAIL \$75.00



The Little Professor™ Grades Pre-4
Math Aid combines excitement of space age game with flash card approach in 4 levels of difficulty

\$12.95 Order No. TILPROF
Shipping Wt. 2 lbs.
SUGG. RETAIL \$15.00

DataMan™ Grades 1-6
Enhances basic four functions of math with variety of activities and math strategy games. A timer adds moving light and extra mental challenge

\$19.95 Order No. TIDTAMN
Shipping Wt. 2 lbs.
SUGG. RETAIL \$21.95

Math Marvel™ Grades 1-6
Advanced math aid offers fast moving, timed activities and games to encourage children to increase their speed, accuracy, and range in solving math problems. And Math Marvel™ is musical to enhance correct scores.

\$24.95 Order No. TIMTAMR
Shipping Wt. 2 lbs.
SUGG. RETAIL \$30.00

Spelling B™ Grades 1-3*
Happy musical tunes add new dimension to learning how to spell. Activity book in three levels of difficulty included

\$34.95 Order No. TISPLLB
Shipping Wt. 2 lbs.
SUGG. RETAIL \$40.00

*Limited quantities available

CALCULATORS: FINANCIAL & SPECIALTY

TI Investment Analyst

A new dimension in easy-to-use financial analysis of investments. Analyze any investment in which you can determine the amount of money spent on the investment, the amount returned by the investment and the length of time the investment was owned.

Get rapid and accurate evaluations of stocks, bonds, options, warrants, commodity futures, real estate and numerous other types of investments. It handles them in terms of the three variables — buying price, selling price and yield (current, annual, yield to maturity, or total period of ownership.)

Features compound interest factor and days between dates. Four-function memory with Constant Memory* feature saves data even when turned off.

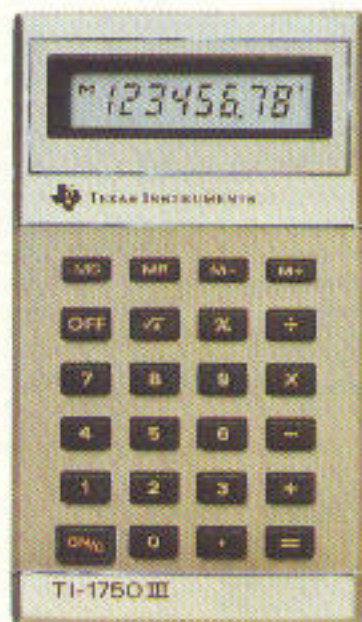


\$48.95
SUGG. RETAIL \$65.00
Order No. TIINVEST
Shipping Wt. 1 lb.

TI-1755

Elegant, all-purpose calculator with musical tone, memory and "soft key" data entry. The card-sized TI-1755 is a beautiful and valuable addition to your personal accessories. Its soft-touch keys respond instantly to your fingertip commands for fast, effortless calculating. And, an optional note key plays a musical tone at each positive key depression, if you like.

The streamlined 3-key memory clears and recalls data, sums-to and subtracts from memory. Bright 8-digit liquid crystal display shows punctuation, indicators for memory overflow and musical tone. Square root, automatic percent and APD* automatic power-down feature make the TI-1755 as practical and convenient to use as it is beautiful.



NEW!!!

\$17.95
Order No. TI1755
Shipping Wt. 1 lb.

TI-1766 with Solar & Light Power

Convenient, light-powered pocket calculator that never needs batteries. Works off any light — indoors or out. As long as there's light, the TI-1766 is on and ready to solve your everyday calculating problems. You never need to buy or replace batteries for the life of the unit.

A unique solar cell panel provides the power for your TI-1766. It generates under any normal light — even some low-light levels — and never needs to store energy. The TI-1766 doesn't even need an on/off switch. Put it in your pocket, purse or briefcase and it's automatically off. Now you can have an accurate, reliable calculator that you can take anywhere, use as long as you like, even store for months at a time — without batteries going dead.

The sleek, ultra-slim TI-1766 weighs less than 2 1/2 oz. and performs the most common calculating problems instantly. Its four-key memory lets you sum-to, subtract-from, clear and recall data. Special convenience features include a square root key and automatic percent key to figure interest, add-ons and discounts.

NEW!!!

\$19.95
Order No. TI1766
Shipping Wt. 1 lb.



TI Business Analyst-II* Executive Calculating System

A unique "systems" approach to financial decision-making.

Imagine doing complex calculations to explore alternatives in lease/buy options, loans, amortizations, real estate mortgages or sales and earning forecasts in minutes. The powerful BA-II 8-digit LCD calculator with Constant Memory* feature has built-in functions to solve a wide range of time and money problems, profit margins, and complex statistical computations at the touch of a few keys. **Quick Facts for Business** gives quick reference for instant financial problem-solving. **Executive Calculator Guidebook** illustrates more than 200 business and personal financial situations.

\$44.95
SUGG. RETAIL \$50.00
Order No. TIBA2EXEC
Shipping Wt. 1 lb.

TI-1750 III

Deluxe pocket portable with memory. Light. Small. Economical. Weighs only 2 1/4 ounces.

Performs today's most needed math functions. Add-ons, discounts, square roots, percentages. Even has a four-key memory. Large easy-to-read liquid crystal display shows 8 digits plus overflow, minus and memory signs. APD* automatic power down feature helps prevent accidental battery drain by turning off the calculator after approximately four minutes of non-use. Comes in brown vinyl wallet folder, with pockets for notes, cards, stamps, etc.



NEW!!!

\$15.95
Order No. TI1750III
Shipping Wt. 1 lb.

TI Converter Kit

Much more than a calculator...a three-part conversion system to help you calculate and convert English and metric measurements instantly. Previously time-consuming calculations and conversions for everyday projects are now fast and easy. The TI Converter has 194 built-in conversions for unit measurements of capacity, length, temperature and weight. Convert pounds to kilograms, miles to kilometers, inches to yards, Fahrenheit to Celsius, and much, much more. For projects around the house, at work or school, shopping and traveling. Three memories make currency conversions a snap. The TI Converter is the core of an easy, three-part system that can save you time and money in many ways. Included is the **Calculator and Converter handbook**, a fact-filled book that guides you, step-by-step, through common household and work-related projects. Need to calculate how many gallons of paint you need or what's the better buy on canned goods? This handy booklet will show you how. And for extra convenience, you also get the **Quick Reference Guide**, a fast on-the-spot guide to calculating and converting that's always there when you need it.

NEW!!!

\$24.95
Order No. TI1890
Shipping Wt. 1 lb.



SCIENTIFIC CALCULATORS+



A BUSINESS AND FINANCIAL CALCULATOR

THE MBA™

Powerful business calculator with statistical and financial functions... and programmability. Pre-programmed functions compute net present value and internal rate of return for variable cash flows. Payment, present value, future value, number of periods or periodic interest rate for ordinary annuities and annuities due. Bond yields and much more.

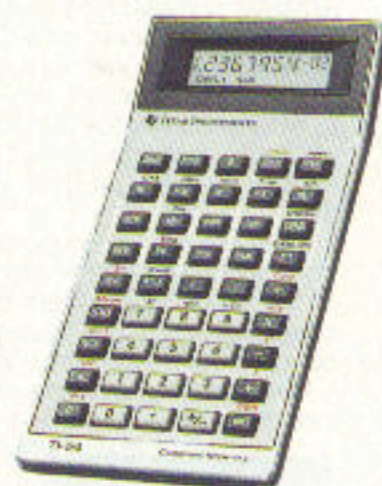
Statistical functions — mean, variance, standard deviation — at the touch of a key. Plus built-in linear regression with correlation coefficient. Twelve memories.

Simple programmability lets it remember a sequence of up to 32 keystrokes.

Calculator Analysis for Business and Finance shows you how to analyze financial situations faster. Use statistical methods easily.

\$54.95

SUGG. RETAIL \$70.00
Order No. TIMBA
Shipping Wt. 3 lbs.



TI-54

Advanced LCD scientific calculator with valuable applications book. For engineers and science professionals. The easy-to-use TI-54, with its convenient tilt-top styling, and its companion book, **Scientific Calculator Sourcebook**, form a powerful tool to help today's science and engineering professionals solve complex problems. Its easy, "how-to" format shows how advanced mathematics and statistics can help you achieve better on-the-job decision making.

The powerful TI-54 has built-in algebraic functions for both real and complex numbers, and hyperbolic and trigonometric functions with inverses — in degrees, radians, or grads — for real numbers. Conversions include polar to rectangular, degrees/minutes/seconds to decimal degrees, and degrees to radians to grads. Constant Memory™ feature retains data even when the calculator is turned off. The power-saving LCD display shows 8-digit mantissa, 2-digit exponent and five other convenient status indicators.

\$39.95

SUGG. RETAIL \$45.00
Order No. TI54
Shipping Wt. 2 lbs.



TI-35 Student Math Kit

Problem-solving kit with Slimline TI-35 scientific calculator. The powerful 54-function calculator performs the most-needed slide rule functions as well as pi, factorial and constant. Its liquid crystal display with scientific notation lets you work with even the smallest or largest numbers with ease. Built-in statistical capabilities include data entry, mean and standard deviation for both sample and population data. Versatile 4-key Constant Memory™ feature lets you store, recall, sum, and exchange memory with display.

Student Calculator Math Book, offers even more information about calculator mathematics and is filled with how-to problems, puzzles and games.

Also included are a detailed owner's manual and vinyl carrying case.

\$22.50

SUGG. RETAIL \$25.00
Order No. TI35SP
Shipping Wt. 2 lbs.



TI-55-II

Advanced LCD slide rule calculation with programming and statistics. With 112 powerful functions for professional engineering, science, and math applications. Easy keyboard programmability, including function evaluation and integration features, saves time on repetitive problems. Also the most needed statistical functions for better data analysis. Use up to 8 memories. Built-in conversion functions for fast transitions between various measurement systems. Plus: roots, powers, reciprocals, log, trig and hyperbolic functions. Enter data in standard, scientific, or engineering formats.

The TI-55-II readout has an 8-digit mantissa and two-digit exponent liquid crystal display. It also shows decimal point and negative sign and indicates calculator mode and angular mode.

Comes with the revised and expanded edition of **Calculator Decision-Making Sourcebook** that shows how to use all its power.

\$44.95

SUGG. RETAIL \$50.00
Order No. TI55II
Shipping Wt. 3 lbs.



TI-40

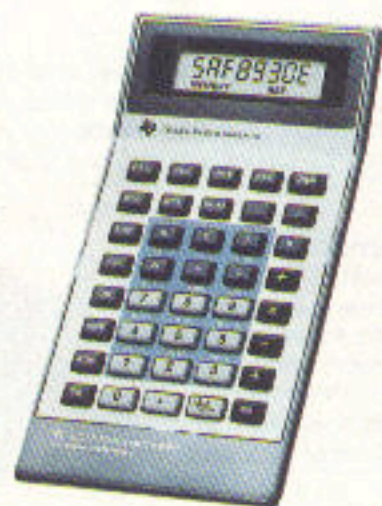
The perfect tool for today's professionals. An LCD scientific calculator with statistics and tilt-top styling. Plus valuable special edition of **Understanding Calculator Math**. Together, they form an easy-to-use, accurate system for complex problem solving.

The TI-40 offers a broad range of scientific functions. Powers, Roots, Reciprocals, Common and natural logarithms, Trigonometric functions and inverses — in degrees, radians or grads, Pi and factorial. Built-in statistical functions include data entry, mean and standard deviation for both sample and population data.

Understanding Calculator Math includes step-by-step examples on probability and statistics, algebra and trigonometry, physics, chemistry, home management and much more — for better decision-making.

\$28.95

SUGG. RETAIL \$30.00
Order No. TI40
Shipping Wt. 2 lbs.



A CALCULATOR FOR COMPUTER PROGRAMMERS

TI LCD Programmer

Efficient, time saving solutions for computer programming professionals and hobbyists. Hexadecimal, octal, decimal. Perform fast conversions and calculations in any of these number bases. Enter a number in base 8, 10 or 16. Convert to either of the other bases. Rapidly handle arithmetic computations in all three bases. Ideal for use with any size computer, the TI LCD Programmer uses integer "two's complement" arithmetic in hexadecimal and octal bases. Three-key memory. Decimal base features signed floating point arithmetic for convenience in day-to-day math. Constant Memory™ and 10-digit LCD display with mode indicators for decimal, octal or hexadecimal. Easy-to-read tilt-top display. Can multiply the effectiveness of anyone in computer programming.

\$59.95

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PROGRAMMABLE CALCULATORS

TI Programmable 57

The self-teaching programming system for students and professionals. Eight multi-use memories provide addressable memory locations to store and recall data. Powerful program memory stores 50 fully merged steps (up to 150 key-strokes). Once a program is built, it can be executed repeatedly by supplying new sets of variables. Computer-like programming functions help solve repetitive problems quickly and accurately.

It's also a powerful super slide rule calculator. AC adapter/charger and carrying case included.

Making Tracks into Programming. Takes you into the power and fun of programming right away, with step-by-step instructions and examples.



\$39.95
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TI Programmable 58C

Advanced programmable calculator with plug-in Solid State Software* and Constant Memory*. Features TI's exclusive Solid State Software*, tiny, pre-programmed modules you slide into the calculator to extend power, flexibility, and range. It is also keyboard-programmable. Constant Memory* feature retains data and program information even when off.

There are many computer-like features: 170 functions and operations to program up to 480 steps or 60 memories. With 4 types of display testing, 6 levels of subroutines, plus 9 levels of parentheses, it can handle almost any problem.

Personal Programming shows how to get the most from the 58C.



\$89.95
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PRINTER/PLOTTER

PC-100C Printer/Plotter

Provides the convenience and efficiency of hard copy printouts. The PC-100C printer/plotter turns your TI Programmable 58C or 59 into a quiet, high-speed printing calculator that prints, lists, and traces your program. Just push the LIST key for a printout of the entire program. Push the TRACE key and every calculation that's performed in your program is printed—the full number and the operation. Provides alpha and plotting capabilities. Prints 64 characters with a maximum line length of 20 characters. Print headings and data labels. Plot curves and histograms. You can even use the alpha capability to build prompting messages directly into your program. Uses a non-impact, thermal printer.



\$169.95
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GET A \$20 REBATE ON THE TI-59 PROGRAMMABLE.

There has never been a better time to buy Texas Instruments' most powerful programmable; and receive a \$20 rebate on purchases now through December 31, 1981.

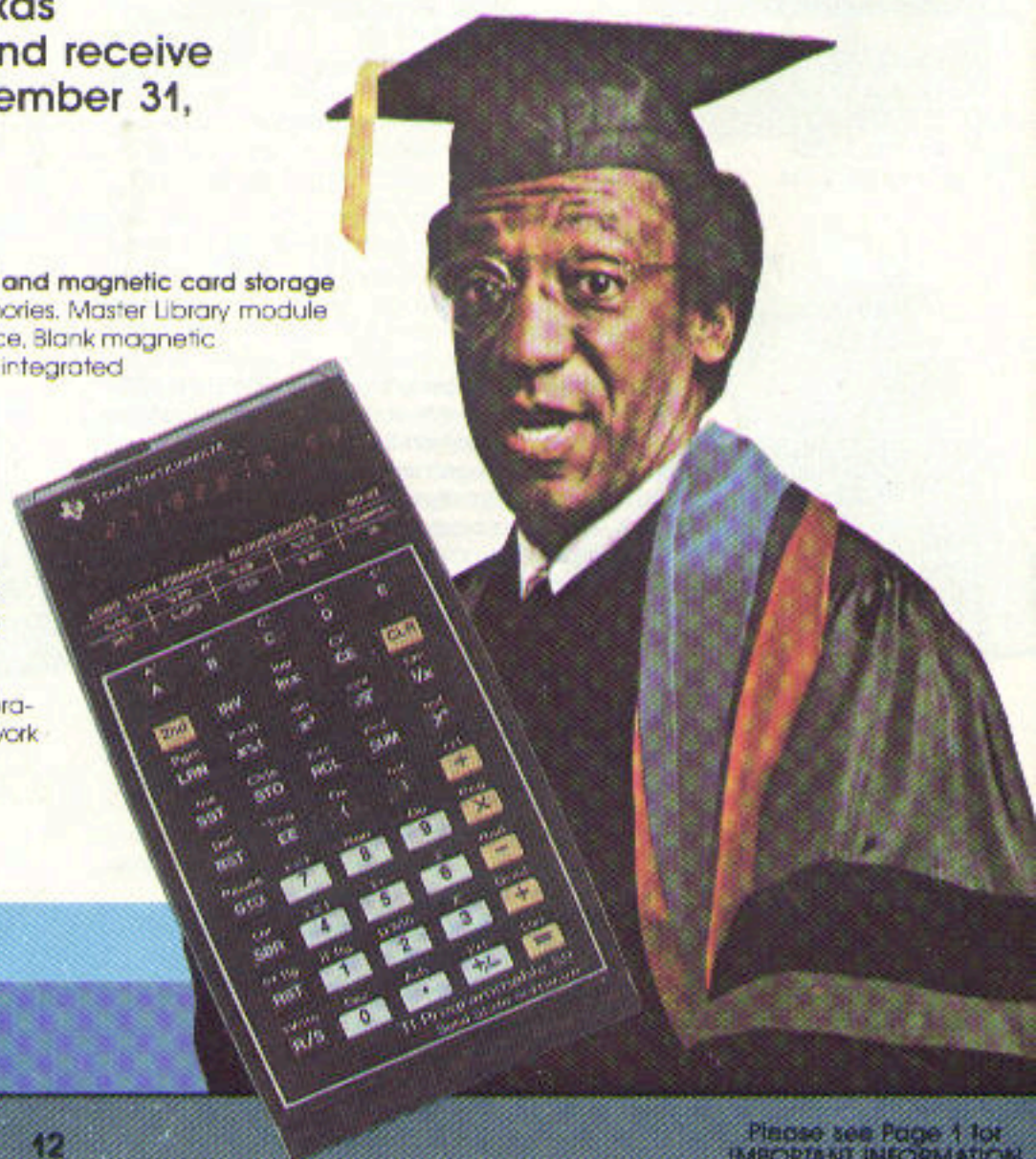
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Magnetic card programmable calculator with plug-in Solid State Software* and magnetic card storage for business, science, engineering. Up to 960 program steps, or up to 100 memories. Master Library module simply plugs in. Includes 25 different programs in key areas: Math, Statistics, Finance. Blank magnetic cards let you write and record custom programs which may be run individually or integrated with programs in the library modules.

Features: 4 types of display testing with an independent test or "I" register • Up to 10 additional test registers: Loop, Increment, Decrement • Up to 10 user flags available: Set, Reset, Test • 72 useful labels • Up to 6 levels of subroutines • Flexible addressing: Program Steps, Absolute, Indirect, Label, Data Memories: Direct, Indirect • Complete program editing: Insert, Delete, Single step, Back-step, No Operation • 10 user defined label keys • Up to 9 sets of parentheses for up to 8 pending operations • Over 175 functions and operations in sciences and statistics • Operates with PC-100C • AC adapter/charger included

Personal Programming takes you through each function, each operation—step by step. With illustrated examples that will be highly adaptable to work you do: Bond cost, Spherical coordinates, Investments, Quadratic equations.

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The Wrist Instruments

TEXAS INSTRUMENTS BEST BUYS

Following are some discontinued, but still available Texas Instruments watches. All items are new and shipped in original Texas Instrument packaging. Your warranty will be honored by Texas Instruments only. Don't miss these extraordinary savings on these outstanding Texas Instruments time pieces. Quantities are limited.

Order Number	Description	Sugg Retail	YOUR COST	YOU SAVE	Ship. Wt. (lbs.)
TIW26341	Women's alarm, golden tone metal case, matching integrated bracelet	65.00	33.00	22.00	1
TIW57611	Black plastic alarm, matching plastic strap	30.00	17.95	12.05	1
TIW58411	Black plastic alarm chrono, dual time zone, snooze alarm, matching elastic strap	35.00	19.95	15.05	1
TIW8011	Alarm chrono, military time, white metal, matching metal bracelet	90.00	47.95	42.05	1
TIW8012	Alarm chrono, military time, golden tone metal, matching metal bracelet	90.00	57.95	52.05	1
TIW80331	Chrono, month, date, day, backlight, white metal, matching metal bracelet	70.00	33.00	37.00	1
TIW80431	Alarm chrono, white metal case, matching adjustable bracelet	50.00	27.95	22.05	1
TIW80441	Alarm chrono, golden tone case, matching adjustable bracelet	60.00	37.95	22.05	1
TIW80831	Alarm chrono, dual time zone, timer, hourly chime, white metal case, matching bracelet	70.00	39.95	30.05	1
TIW80841	Alarm chrono, dual time, timer, hourly chime, golden tone case, matching bracelet	80.00	44.95	30.05	1
TIW80931	Alarm chrono, 7 day programmable alarm, timer, hourly chime, white metal, matching metal bracelet	80.00	39.95	30.05	1
TIW80941	Alarm chrono, 7 day programmable alarm, timer, hourly chime, golden tone metal, matching metal bracelet	90.00	44.95	35.05	1



TEXAS INSTRUMENTS ACCESSORIES

SOLID STATE SOFTWARE LIBRARIES

Order Number	Description	Sugg Retail	YOUR COST	Ship. Wt. (lbs.)
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TIR59RE	Real Estate & Investment	40.00	37.95	3
TIR59AV	Aviation	40.00	37.95	3
TIR59NAV	Marine Navigation	40.00	37.95	3
TIR59SVY	Surveying	40.00	37.95	3
TIR59LRD	Leisure Library	40.00	37.95	3
TIR59SEC	Securities Analysis	40.00	37.95	3
TIR59BUSDC	Business Decisions	40.00	37.95	3
TIR59MATH	Math/Utilities	40.00	37.95	3
TIR59EE	Electrical Engineering	40.00	37.95	3
TIR59FARM	Farming	55.00	52.95	3
TIR59RPN	RPN Simulator	40.00	37.95	3
TIR59H2O	Pool Water Analysis	45.00	43.95	3

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TIP5CE	Civil Engineering	10.00	9.50	1
TIP5EE	Electrical Engineering	10.00	9.50	1
TIP5LKB0Y	Backbody	10.00	9.50	1
TIP5OGE	Oil/Gas/Energy	10.00	9.50	1
TIP5PGMAD	Programming Aids (TI-59 w/PC-100 required)	10.00	9.50	1
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TIP53D	3D Graphics	10.00	9.50	1
TIP5MATH	Math	10.00	9.50	1
TIP5FLDYN	Fluid Dynamics	10.00	9.50	1
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TIR5TANIMAL	Animal Friends	2-5	20.00	17.95	3
TIR5TIME	All About Me	2-5	20.00	17.95	3

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TIBP1A	Battery Pack for TI-55/58C/59			10.00	1
TIBP7	Battery Pack for TI-55/57			8.00	1
TIBP8	Battery Pack for SR-40/BUS ANALYST			8.00	1
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TI9182	AC adapter for Little Professor Spelling B, Math Marvel			7.00	1
TI9199	AC adapter for Speak & Spell, Speak & Read, Speak & Math			7.00	1
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CLOCK CALCULATORS

TALKING DIGITAL CLOCKS



ELECTRONIC DIGITAL ALARM CLOCK

Model CT-455E

Precision Timepiece With Alarm
Slips Into Vest Pocket Or Purse.

Fashionably and elegantly designed, this slim, electronic pocket clock has a large, easy-to-read liquid crystal display, which exhibits the time in hours, minutes, and seconds (blinking dots), and in the convenient 12-hour cycle, with AM and PM indicated. Its easy-to-set alarm can be used to remember meetings, appointments, and other time-related events. It functions to within an accuracy of ±1.5 seconds each day, runs for approximately 18 months on a single alkaline manganese battery, and comes with an attractive soft case.

\$24.95

Order No. SHPCT455E
Shipping Wt. 1 lb.



WALLET-SIZE WITH LARGE LCD AND MONTHLY CALENDAR

Model EL-410

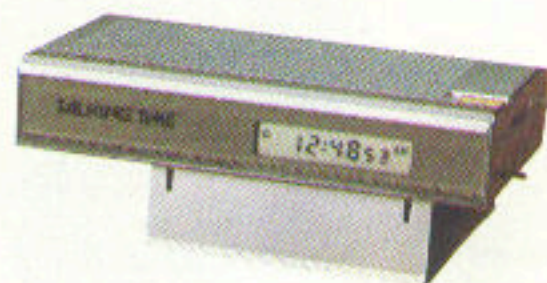
Clock Calculator With Extra-Large Display Exhibits An Entire Month.

In addition to performing as a 4-function basic calculator with an independently accessible 3-key memory, and as a 12- or 24-hour-cycle accurate timepiece with two melodic alarms, the EL-410 features an extra-large display which can simultaneously exhibit any of its time functions and any one entire month selected from the years 1901 to 2099.

Other features: • A timer to indicate appointments, meetings, and other time-related events • A stopwatch to record elapsed time • An hourly chime • Eleven musical notes (la, si, do, re, mi, fa, so, la, si, do, re) to (optionally) accompany entry of numbers, or to play simple tunes • One-touch percent key for fast add-on/discount calculations • Constant, power, reciprocal, and chain calculations.

\$49.95

Order No. SHP410
Shipping Wt. 1 lb.



TALKING DIGITAL CLOCK

Model CT-660E

Compact Digital Clock Adds Voice Announcement And Melody To Its Alarm And Follow-Up Times 5 and 10 Minutes Later.

• Non-stop read-out of hour/minutes/seconds, AM, and PM. • Alarm setting and timer function up to 9 hours, 59 minutes, 59 seconds • Stopwatch displays standard/accumulated elapsed time measurement with lap time announcement in the preset interval • Easy-to-read LCD read-out plus: (1) manual time announcement—hour and minutes, (2) automatic time announcement—every 30 minutes, (3) alarm with voice and melody, (4) snooze function 5 and 10 minutes after alarm, (5) timer with automatic elapsed time every 1, 5 or 30 minutes • Dry battery power source included.

\$79.95

SUGG. RETAIL \$89.95
Order No. SHPCT660E
Shipping Wt. 1 lb.



CARD-SIZE WITH DAY/DATE/STOPWATCH

Model EL-408

Clock Calculator With Day, Date
And Precision Stopwatch.

In addition to performing as a 4-function basic calculator with an independently accessible 3-key memory, the EL-408 serves as an accurate timepiece (with alarm), displaying the time in hours, minutes, and seconds (blinking dots); and as a calendar, indicating the day of the week, as well as the date.

Other time functions: • A pleasant alarm to remember meetings, appointments and other time-related events • A stopwatch to record elapsed time.

Other calculator functions: • Easy-to-read 8 digit display • Audible input check mode (beep emitted to confirm each keyboard entry) • One-touch percent key for fast add-on/discount calculations • Constant, power, reciprocal, and chain calculations.

\$29.95

Order No. SHP408
Shipping Wt. 1 lb.



MINI VEST POCKET

Model EL-8061S

Stylish, Miniature "Vest-Pocket" Calculator Has Built-In Timepiece With Alarm.

• Tiny 8-digit liquid crystal display pocket calculator with built-in hour/minute/second clock • Calendar shows date and day-of-the-week • Alarm sounds for appointments, meetings, etc. • Symbols include minus, error set mode, A (AM), P (PM) and alarm indicators • Percent key for add-on/discount calculations • includes vest-pocket watch chain and lithium cell.

\$34.95

Order No. SHP8061S
Shipping Wt. 1 lb.



"THIN MAN"™ TALKING DIGITAL CLOCK

Model CT-665E

Voice-Synthesized Clock Announces Time
In Addition To Displaying It.

In addition to exhibiting the time of the day in hours, minutes, and seconds on its easy-to-read liquid crystal display, and in the convenient 12-hour cycle with AM and PM indicated, this elegantly designed precision timepiece also announces the time with electronic voice synthesis. The time announcements occur automatically on the hour, at 10- and 5-minute intervals before the clock's alarm goes off, and at any time at the press of a key.

Other features: • A countdown timer (with alarm) to remember meetings, appointments, and other time-related events • A different chime for each of the three kinds of announcements (hourly, alarm, timer) • Powered with 4 mercury batteries.

\$84.95

SUGG. RETAIL \$99.95
Order No. SHPCT665E
Shipping Wt. 1 lb.

SPECIALTY



192-NOTE PROGRAMMABLE MUSICAL/ TIME CALCULATOR

Model EL-670

8-Digit Musical Clock/Calculator With 2-1/2-Octave, Piano-Like Keyboard.

Four mode settings permit this precision instrument to function as • A programmable electronic piano (30 notes, including sharps and flats) with playback feature (up to 192 notes) • A basic 4-function calculator with independently accessible 3-key memory • An accurate timepiece (hour/minute/second) with hourly chime and both built-in and custom-designed (64 notes) melody alarm.

Other features: • One-touch percent key for fast add-on/discount calculations • Constant, power, and reciprocal calculations.

\$54.95

Order No. SHP670
Shipping Wt. 1 lb.



ULTRA THIN SOLAR CALCULATOR

Model EL-835

An ultra thin (1/16" depth), high fashion Solar calculator with exciting design that features advanced silicon cell construction. The EL-835 can be used anywhere/anytime, and is super sensitive to incandescent and fluorescent light, with never a need for conventional batteries.

NEW

\$29.95

Order No. SHP835
Shipping Wt. 1 lb.



PLANNING COMPUTER

Model EL-6200

Alphanumeric Planning Computer With Scheduling, Memo And Clock Functions As Well As 10-Digit Calculator.

• Dual LCD display consists of a 12-character dot-matrix rolling writer in lower section, and 9-digit in upper section • Displays date (year/month/day), time (hours/minutes) plus memorandum, messages and appointments • Symbols provide identification of phone calls, meetings, social engagements and trips • Enter up to 27 characters and 9 numerals to store memos into memory • Programmable for a full year • Daily or monthly schedule recalled at the touch of a key • Interaction with user to provide important schedule or program information • 37 memories for scheduling with alarm • Alarm clock • Pocket-sized with typewriter keyboard arrangement.

\$99.95

SUGG. RETAIL \$119.95
Order No. SHP6200
Shipping Wt. 1 lb.



MEMOWRITER™ WITH 40-WORD MEMORIES

Model EL-7001

Hand-Held 10-Digit Calculator With Alphanumeric Keyboard And Extra-Large Memory Can Process And Print Out Words As Well As Numbers.

In addition to performing as a 4-function basic calculator with an independent 4-key memory, this portable data processor with typewriter-like keyboard has 40-word memories, each capable of storing 15 alphabetic, or 7 alphabetic and 10 numeric characters for subsequent analysis and printout on a paper tape roll. Also available is a 48-character memory buffer which permits editing of the data on the dot-matrix liquid crystal display prior to printout. The EL-7001 can also be used as a typewriter to type brief messages.

Other features: • Memory Safe Guard™ (protects data in all memories when power is off) • One-touch percent key for fast add-on/discount calculations • Constant, reciprocal, power, and chain calculations • Full floating and fixed decimal point modes of operation • Ni-Cd battery, AC adaptor/charger, paper roll, soft case, template, ribbon cartridge (installed), instruction manual.

\$109.95

SUGG. RETAIL \$139.95
Order No. SHP7001
Shipping Wt. 2 lbs.

Roll paper (5 per pack) for printing calculators EL-7000/7001 \$4.95 Order No. SHPREA7000P, Shipping Wt. 1 lb.

PRINT/DISPLAY HAND-HELD



10-DIGIT PRINT/FLUORESCENT DISPLAY WITH INBOARD PAPER HOLDER

Model EL-1186

Hand-Held Print/Display 10-Digit Calculator With Built-In Paper Holder.

• Full print-out of 10 numerals and symbols on plain paper tape • Built-in paper holder • Operates in non-print (display only) mode, for conserving paper, or in modified print (totals only) mode in order to suppress undesirable intermediate calculations • Easy-to-read 10-digit bright green display, each group of 3 digits clearly punctuated • Floating as well as fixed decimal point mode of operation • Independently accessible 3-key memory • Item counter key • Constant, power, reciprocal, chain and add-on/discount calculations • Comes with Ni-Cd rechargeable battery, AC adaptor, soft case, and paper roll.

\$69.95

Order No. SHP1186
Shipping Wt. 2 lbs.



10-DIGIT WALLET-SIZE PRINT/DISPLAY

Model EL-1195

"Thin Man"™ Print/Display Calculator With Wallet

• Slim and light enough to carry in shirt pocket • Full printout of 10 numerals on thermal printing paper • Operates in non-print (display only) mode, for conserving paper • Easy-to-read 10-digit liquid crystal display, each group of 3 digits clearly punctuated • Floating as well as fixed decimal point mode of operation • Add-mode (A) to facilitate entering of dollar-and-cents figures • Independently accessible 3-key memory • Constant, power, reciprocal, chain and add-on/discount calculations • Comes with Ni-Cd rechargeable battery, AC adaptor, attractive wallet and paper roll.

\$69.95

Order No. SHP1195
Shipping Wt. 2 lbs.

Roll paper (5 per pack) for printing calculator Model EL-1195 \$4.95 Order No. SHPREA1195P, Shipping Wt. 1 lb.

PRINT/DISPLAY DESK-TOP

SCIENTIFIC



10-DIGIT PRINT/DISPLAY
Model EL-1182A

Compact Desk-Top Print/Display 10-Digit Calculator Designed For Standard Office Work.

- Full print-out of 10 numerals and 2 symbols on standard size paper roll
- Operates in non-print (display only) mode for conserving paper
- Easy-to-read 10-digit bright green display, each group of 3 digits clearly punctuated
- New add-bar/subtract key-top design to minimize human error
- New "nullify key-stroke" feature eliminates need to re-enter a large number
- Non-add/subtract add total keys allow for suppression of undesirable intermediate calculations
- Floating, fixed decimal (3-2-0), constant (K), and add (A) operating modes (after one facilitates entering of dollar-and-cents figures)
- Independently accessible 4-key memory
- One-touch percent key for add-on/discount calculations
- Power, reciprocal, and chain calculations
- Operates on ordinary AC outlet
- Includes dust cover and paper roll.

\$89.95

Order No. SHP1182A
Shipping Wt. 2 lbs.



12-DIGIT PRINT/DISPLAY
Model EL-2188

Compact Desk-Top Print/Display 12-Digit Calculator Prints 2.5 Lines Per Second.

- Full print-out of 12 numerals with punctuation marks on standard-size paper roll
- Operates in non-print (display only) mode for conserving paper
- Easy-to-read 12-digit display, each group of 3 digits clearly punctuated
- Keyboard design minimizes likelihood of entry errors
- Item counter totals number of entries (useful for computing averages)
- Floating and fixed decimal (3-2-0) operation modes
- Constant (K) and add-mode (A) (after facilitates entry of dollar-and-cents figures)
- One-touch percent key for fast add-on/discount calculations
- Power, reciprocal, and chain calculations
- Operates on ordinary current
- Includes dust cover and paper roll.

\$119.95

Order No. SHP2188
Shipping Wt. 2 lbs.



"THIN MAN"[™] WALLET-SIZE WITH
46 SCIENTIFIC FUNCTIONS
Model EL-506S

Extra Full-Featured Scientific Calculator With Built-In Statistics Functions.

Some of the 46 scientific functions performed at the touch of a key are: • Hyperbolic (sinh, cosh, tanh) and their inverses • Trigonometric (sin, cos, tan) and their inverses • Rectangular/polar coordinate conversions • Exponential (base 10 and base e) and their inverses (logarithms) • Power (y) and its inverse ("x root of y") • Factorial (n!) • Mean, sum, and standard deviation.

Other features: • 3 levels of parentheses with up to 4 pending operations • Easy-to-read 10-digit liquid crystal display • Scientific notation (8-digit mantissa, 2-digit exponent) • Percent change between two numbers ("delta-percent" key) • Independently accessible 3-key memory • Comes in its own attractive wallet.

\$29.95

Order No. SHP506S
Shipping Wt. 1 lb.



Application Text
EL-5100PB1 \$6.95
Order No. SHPRPB1
Shipping Wt. 1 lb.



PROGRAMMABLE WITH DOT-MATRIX
ALPHANUMERIC DISPLAY
Model EL-5100

The Calculator That Writes An Equation And Remembers It.

- 24-digit, dot-matrix, alphanumeric rolling display
- Memory Safe-Guard[™] circuit to protect data
- Automatic Power-Off[™] (A.P.O.) function
- Wide variety of 61 scientific functions including trigonometric, inverse trigonometric, hyperbolic, arc hyperbolic and exponential calculations
- Playback function/TAB function
- With a touch of the F—E key, can be converted to a 10-digit mantissa and 2-digit exponent display
- Includes attractive hard cover protective case and batteries

\$89.95

Order No. SHP5100
Shipping Wt. 2 lbs.



"THIN MAN"[™] WALLET-SIZE
PROGRAMMABLE
Model EL-507

Extra Full-Featured "Programmable" Scientific Calculator With Built-In Statistics Functions.

In addition to performing the scientific functions found on other Sharp Extra Full-Featured Scientific Calculators, the EL-507 permits the user to program his own. Available for this purpose is a more extensive memory which permits the user to store up to 38 program steps built up from any of the 507's scientific functions.

Other features: • The option to use the 507's memory for storing input data or intermediate results from calculations (4-memories for this purpose) • An additional independently accessible 3-key memory • 15 levels of parentheses with up to 7 pending operations • Easy-to-read 10-digit liquid crystal display • Scientific notation (8-digit mantissa, 2-digit exponent) • Memory Safe Guard[™] feature (protects all stored data and/or program steps even when power is off) • Comes in its own attractive wallet.

\$39.95

Order No. SHP507
Shipping Wt. 1 lb.



SLIM PROGRAMMABLE WITH DOT-MATRIX
ALPHANUMERIC DISPLAY
Model EL-5103

The Calculator With Direct Formula Entry And Algebraic Expression Reserve.

- 13-digit, dot-matrix, alphanumeric rolling display
- Memory Safe-Guard[™] circuit to protect data
- Automatic Power-Off[™] (A.P.O.) function
- 63 scientific and statistical functions including trigonometric, inverse trigonometric, hyperbolic, arc hyperbolic and exponential calculations
- Playback function/TAB function
- 15 levels of parentheses and 8 levels of pending operations
- Complete with attractive wallet and batteries

\$59.95

Order No. SHP5103
Shipping Wt. 1 lb.

CASIO ELECTRONIC MUSICAL INSTRUMENT & CALCULATOR — THE CASIO VL-TONE

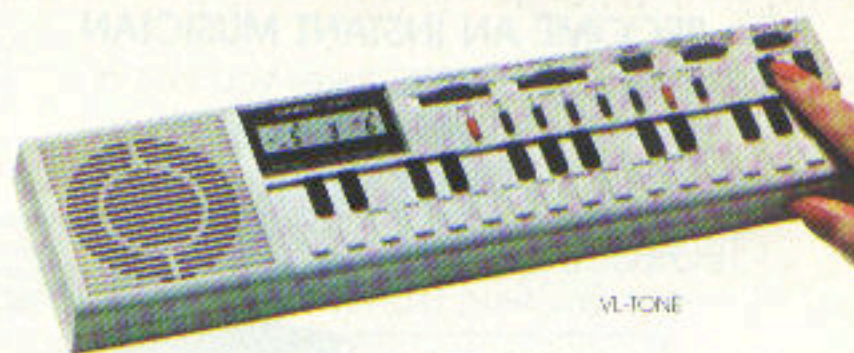
The new VL-TONE takes you into a new world of experience. Quickly, easily, without the long hours, years, of training necessary for mastering a regular instrument.

The VL-TONE is a very special keyboard. It incorporates a ONE KEY PLAY function like no other instrument. With just one finger you can play a melody, and in the AUTO PLAY mode you can listen to the melody you've just played. Add the ADSR function and you have almost unlimited variations of sound to play around with — over 80 million. Play it professionally or simply for pleasure, the VL-TONE has something to offer everybody.

FEATURES:

- Auto-Rhythms: The background beat that sets the tempo.
- Auto-Play: Lets you re-listen to the melody you've played.
- 2-way Power Source & Built-In Speaker: Take it and enjoy it wherever you like.
- Calculating: Always useful to have around.
- 5 Preset Sounds: Select a sound and become your own "group".
- One Key Play: Any melody with just one finger.
- Melody Demonstration: Variable sound and rhythm to show you the abilities of the VL-TONE.
- ADSR: Create your own sounds, millions of ways.
- Manual Play: Switch on, and away you go!

\$59.95
SUGG. RETAIL \$69.95
Order No. CSOVL1
Shipping Wt. 2 lbs.



VL-TONE



M-10

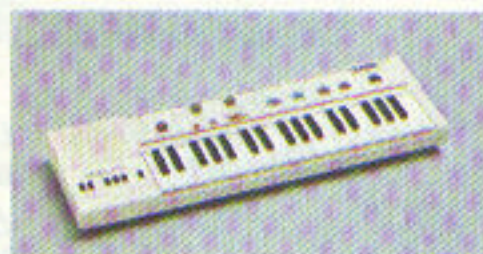
FOUR INSTRUMENTS ON THE MOVE!

Casio steps into the future with the electronic Casiotone M-10 — the classical sounds of the piano, organ, violin and flute, all on one instrument. Its 8-note polyphonic function renders beautiful tone harmony throughout most musical chords. It travels with you, ready to play whenever the mood takes you. The Casiotone M-10 — one music center, four different instruments selectable at a touch.

M-10
\$119.95
SUGG. RETAIL \$149.50
Order No. CSOM10
Shipping Wt. 4 lbs.



CASIOTONE M-31



CASIOTONE M-40

ON THE MOVE MUSIC FROM A 22-INSTRUMENT KEYBOARD.

FEATURES:

- Take-around keyboard with 22 instrumental sounds built-in, lively, realistic.
- One-touch sustain & vibrato effects add a pro's touch to your performance.
- 37-key keyboard covers 3 octaves.
- Any chord play through 8-note polyphonic.
- Generous connections for line-out, headphone and AC/DC adapters.
- Pitch control provided for just the right adjustment.
- 3-way AC/DC power source.
- Compact, lightweight and handy with built-in speaker.

NEW!!!
M-31
\$149.95
SUGG. RETAIL \$169.95
Order No. CSOMT31
Shipping Wt. 5 lbs.

THE KEYBOARD WITH THE BASS BACK-UP

FEATURES:

- Take-around keyboard with 22 instrumental sounds built-in, lively, realistic.
- Complete auto-rhythm with 5 built-in rhythms and dual "FILL-IN" rhythmic interludes.
- Talented brass performance can easily be achieved by automatic bass function.
- One-touch sustain & vibrato effects add a pro's touch to your performance.
- 37-key keyboard (8-note polyphonic) and 15-key bass keyboard.
- Generous connections for line-out, headphone and AC/DC adapters.
- Pitch control provided for just the right adjustment.
- 3-way AC/DC power source.
- Compact, lightweight and handy with built-in speaker.

NEW!!!
M-40
\$179.95
SUGG. RETAIL \$199.95
Order No. CSOMT40
Shipping Wt. 5 lbs.

THE CASIOTONE 401 FILLS ANY MUSICAL APPETITE.

FEATURES:

- 14 preset sounds, a true variety of performance.
- Complete auto-rhythm with 16 built-in rhythms and "FILL IN" rhythmic interludes.
- Casio Auto Chord allows you to perform single finger accompaniment.
- 8-note polyphonic captures professional sounds.
- Delicate effect through vibrato, sustain, etc.
- At-a-glance, simple-to-use operational panel.
- Compact and handy, ready to play anywhere.
- A system that keeps growing with optional accessories, and is compatible with other equipment.

\$599.95
SUGG. RETAIL \$699.95
Order No. CSOCT401
Shipping Wt. 29 lbs.



CASIOTONE 401

THE CASIOTONE 403 OPENS UP A DREAMWORLD OF MUSICAL EXPERIENCES.

FEATURES:

- Choose your sound from the 25 quality sounds.
- Casio's unique "Quick'n'Sure" sound selection system.
- Complete auto-rhythm with 16 built-in rhythms and "FILL IN" rhythmic interludes.
- Talented chord play can be easily performed by Casio Chord System.
- Vibrato and sustain effects give you delicate difference to the sounds.
- 8-note polyphonic captures professional sounds.
- Pitch control provided for easy tuning with other group of instruments.
- Compact and handy, ready to play anywhere.
- Generous electrical connections for sustain pedal, foot volume pedal, headphone and auxiliary equipment.

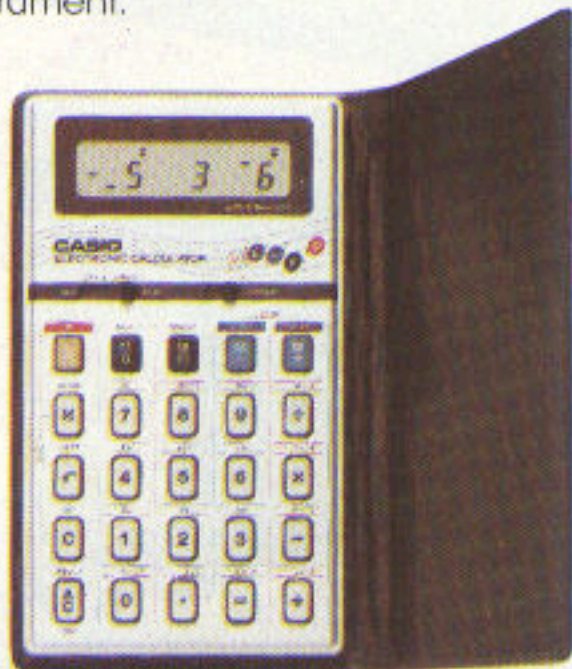


\$499.95
SUGG. RETAIL \$599.95
Order No. CSOCT403
Shipping Wt. 18 lbs.

CASIOTONE 403

BECOME AN INSTANT MUSICIAN

Casio's new VL-TONE takes you into a new world of music. Quickly, easily, without the long hours, years of training necessary for mastering a regular instrument.



VL-80

- ONE KEY PLAY function
- AUTO-PLAY function
- Manual play function
- Melody demonstration
- Vibrato effect
- Calculating function
- Fine carrying case

NEW!!!

\$49.95

Order No. CSOVL80
Shipping Wt. 1 lb.

MELODIC TIME MEMORIES

Some of the novel new ways Casio makes the calculator fit more pleasantly into your daily life. Ear-pleasing melodies keep you in tune with your schedule, provide light moments during a busy day.



\$39.95

Order No. CSOML120
Shipping Wt. 1 lb.



ML-120

- 12 pre-programmed melodies —
- Alarm-1: 7 tunes, a different one is played every day (or a fixed melody).
- Alarm-2: A fixed melody
- Date memories: 4 anniversary tunes (birthday, Xmas, wedding/choice), played 5 times throughout the morning of the pre-set date.
- Clock with hourly time signal • Calendar
- Stopwatch
- 11-note melody composer
- Calculator • Light-touch keys
- 7/32"Hx2-1/2"Wx4-1/2"D
- Fine carrying case



\$39.95

Order No. CSOML75
Shipping Wt. 1 lb.

ML-75

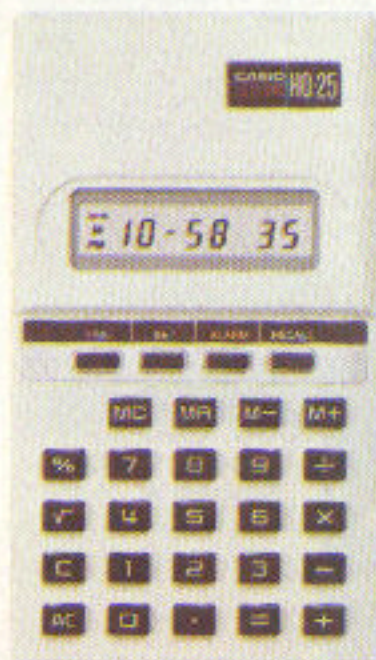
- 12 pre-programmed melodies —
- Alarm-1: 7 tunes, a different one is played every day (or a fixed melody).
- Alarm-2: A fixed melody
- Date memories: 4 anniversary tunes (birthday, Xmas, wedding/choice), played 5 times throughout the morning of the pre-set date
- Clock with hourly time signal • Calendar
- Stopwatch • 11-note melody composer
- Calculator • Light-touch keys
- 3/16"Hx3-5/8"Wx2-3/8"D
- Fine carrying case

CLOCK & CALCULATOR COMBINATIONS

Time at a glance plus related time features and functions. With a precision that matches modern life, these neat units fulfill an important role in daily work and scheduling.

HQ-25

- Calculator
- Clock • Alarm
- 3/4"Hx2-3/4"Wx5"D



ML-81

- Clock with hourly time signal
- Calendar • Stopwatch
- 2 melody alarms
- Countdown alarm
- 11-note melody composer
- Calculator • Fine carrying case
- 5/16"Hx4-1/2"Wx2-1/4"D

\$19.95

Order No. CSOHQ25
Shipping Wt. 1 lb.

\$29.95

Order No. CSOML81
Shipping Wt. 1 lb.

CALCULATOR & GAME COMBINATIONS

Here are the calculators that mix some fun with your figurework. They test your reflexes against the speed of incoming numerals and present an ever-exciting challenge. Every game is a new combination so you never get tired of playing, and the better you get, the tougher the games become.

MG-880

- A speed-shoot, counter attack, game
- 11-note melody composer with a pre-programmed tune "When The Saints Go Marchin' In".
- 8 digits (16-digit approximations), constants for +/-/*/+/-, independent memory, perfect %.
- Function command signs
- Auto power-off function.
- 1/4"Hx2-5/8"Wx4-1/2"D
- Fine carrying case

\$24.95

Order No. CSOMG880
Shipping Wt. 1 lb.

MG-770

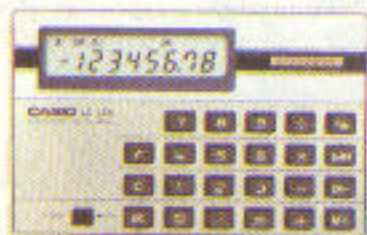
- A speed-shoot, counter attack, game.
- 11-note melody composer with a pre-programmed tune "When The Saints Go Marchin' In".
- 8 digits (16-digit approximations), constants for +/-/*/+/-, independent memory, perfect %.
- Function command signs.
- Auto power-off function.
- Light-touch keys
- 5/32"Hx3-3/8"Wx2-1/8"D
- Fine carrying case

\$29.95

Order No. CSOMG770
Shipping Wt. 1 lb.



CLEAN-CUT CARDS



LC-785

- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %.
- Function command signs
- Auto power-off function
- $3/16'' \times 3-5/8'' \times 2-1/4''$ D, 1.6 oz.
- Fine carrying case

\$12.95

Order No. CSOLC785
Shipping Wt. 1 lb.



MC-34

- As many as 34 conversion functions (17 metric, 17 reversible) including distances, weights, areas, volumes and temperatures
- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, automatic accumulation, memory, perfect %.
- Function command signs
- Auto power-off function
- $5/32'' \times 3-1/4'' \times 2-1/8''$ D
- Fine carrying case

\$19.95

Order No. CSOMC34
Shipping Wt. 1 lb.

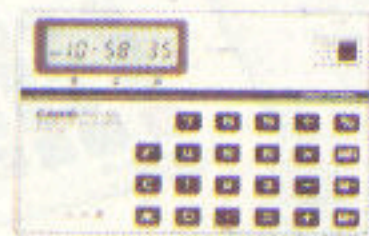


ML-733

- 11-note melody composer with three pre-programmed tunes
- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %.
- Function command signs.
- Auto power-off function with memory retention.
- $7/32'' \times 2-1/8'' \times 3-5/8''$ D
- Fine carrying case

\$16.95

Order No. CSOML733
Shipping Wt. 1 lb.



PW-60

- Clock
- Calculator
- 1 year on one lithium battery
- $3/16'' \times 3-5/8'' \times 2-1/4''$ D
- Fine carrying case

\$19.95

Order No. CSOPW60
Shipping Wt. 1 lb.



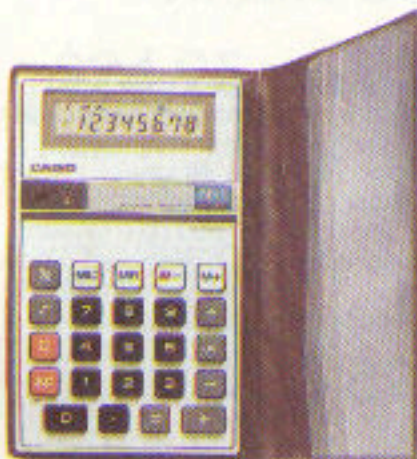
PW-82

- Clock with hourly time signal
- Alarm
- Calculator
- $3/16'' \times 3-5/8'' \times 2-1/4''$ D
- Fine carrying case

\$29.95

Order No. CSOPW82
Shipping Wt. 1 lb.

FOLD-AWAY FIGUREWORK



N-1

- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %.
- Function command signs
- Auto power-off function with memory retention.
- $3/8'' \times 3-1/4'' \times 5-7/16''$ D
- Fine carrying case

\$24.95

Order No. CSON1
Shipping Wt. 4 lbs.



BF-100

- 10 digits (20-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %, \log , \log_x , $+/-$, date calculations
- Financial calculations: compound interest calculations, loan calculations, annual payments, bonus payments, installment savings, deferred annuity present values
- Auto power-off function with memory retention (independent memory and financial data)
- $3/8'' \times 2-7/8'' \times 5-1/4''$ D
- Fine carrying case

\$29.95

Order No. CSOBF100
Shipping Wt. 3 lbs.



ML-833

- 11-note melody maker with three pre-programmed tunes.
- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %.
- Function command signs
- Auto power-off function with memory retention
- $1/4'' \times 2-5/8'' \times 4-1/2''$ D
- Fine carrying case

\$19.95

Order No. CSOML833
Shipping Wt. 3 lbs.



LC-316

- 8 digits (16-digit approximations), constants for $+/-/ \times / \div$, independent memory, perfect %.
- Function command signs
- Auto power-off function
- $5/16'' \times 2-5/8'' \times 4-3/8''$ D
- Fine carrying case

\$12.95

Order No. CSOLC316
Shipping Wt. 3 lbs.

Slip one into your pocket and forget about everyday figurework problems. With wafer-thin size and an abundance of useful features, you'll wonder how you ever got on without one before.

These tasteful pocket possessions look good every time you take them out. The smart, fold-away wallets also protect your calculator's handsome case.



FR-1010



JR-510



KR-4000



FR-100

JR-150

- 10-digit tape and display, constants for \times/\div , independent memory, sub-total/total, %, [P] print key, [M] key, item counter
- Full decimal system: Floating, fixed (0-4) with round-off or cut-off, ADD-mode
- 2-way power source: AC (AD-4150 adaptor) or DC (four penlight batteries)
- 2"H x 5-3/4"W x 12-1/4"D, 26.7 oz.

\$84.95 Order No. CSOJR150
Shipping Wt. 2 lbs.

FR-1010

- 10-digit tape and display, constants for \times/\div , independent memory, sub-total/total, total of product/quotient, %, $\sqrt{\quad}$, [P] print key, \pm , [M] key, item counter
- Full decimal system: Floating, fixed (0-6) with round-off or cut-off, ADD-mode
- Power source: AC
- 2-1/2"H x 7-3/4"W x 13-1/4"D, 3.7 lbs

\$99.95 Order No. CSOFR1010
Shipping Wt. 5 lbs.

KR-4000

- 12-digit tape and display, constants for \times/\div , independent memory, sub-total/total/grand total, total of multiplicand/dividend and product/quotient, %, [F] fast corrections, [M] key
- 3-digit comma markers
- Full decimal system: Floating, fixed (0-6) with round-off, round-up or cut-off, ADD-mode
- Power source: AC
- 3-3/4"H x 5-1/2"W x 14-1/2"D, 5.3 lbs.

\$179.95 Order No. CSOKR4000
Shipping Wt. 7 lbs.

More Casio Printing Performers

HR-20
With features similar to the HR-10/20, the handheld HR-12 has Digiton display and uses standard 2-1/4" paper

\$54.95 Order No. CSOHR12
Shipping Wt. 2 lbs.

JR-250
Enhances the JR150 to 12 digit tape and display

\$94.95 Order No. CSOJR250
Shipping Wt. 2 lbs.

JR-410
10 digit version of the JR510

\$99.95 Order No. CSOJR410
Shipping Wt. 2 lbs.

FR-1210
12-digit version of the FR1010 with 3-digit comma markers

\$129.95 Order No. CSOFR1210
Shipping Wt. 5 lbs.

CP-10

Super-Versatile Mini Printing Calculator

This highly precise electronic unit combines a high-contrast liquid crystal display and "electro-thermal printing system." With speed and accuracy it can solve and print out all types of business calculations up to 10 digits as well as everyday figurework. Additional features include Independent Memory, Calendar Printout, Clock and Alarm, 2-Way Power Source.

NEW! \$69.95 Order No. CSOCP10
Shipping Wt. 1 lb.

HR-20

- Print-out of a full month calendar between Jan. 1901 and Dec. 2099.
- Simple algebraic logic operation.
- 10-digit tape and display, constants for \pm , \times/\div , independent memory, perfect %, [P] print key, \pm
- Full decimal system: Floating, fixed (2) with round-off or cut-off
- 3-way power source: AC (AD-4150 adaptor), rechargeable battery pack (NP-4M) or four penlight batteries
- 1-5/8"H x 3-1/2"W x 5-5/8"D, 13 oz.

\$49.95 Order No. CSOHR20
Shipping Wt. 1 lb.

FR-100

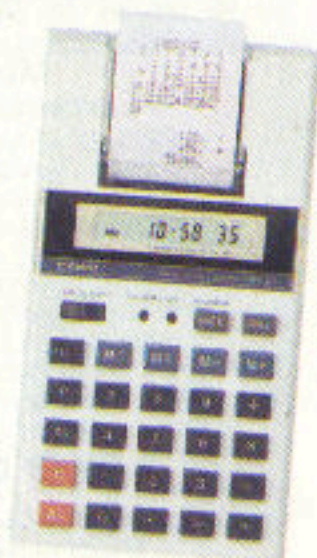
- 10-digit tape and display, constants for \times/\div , independent memory, sub-total/total, %, [M] key, item counter
- Full decimal system: Floating, fixed (0-4) with round-off or cut-off, ADD-mode
- 2-way power source: AC (AD-4150 adaptor) or DC (four penlight batteries)
- 2-1/8"H x 5-1/2"W x 7-3/8"D, 23.6 oz.

\$79.95 Order No. CSOFR100
Shipping Wt. 2 lbs.

JR-510

- Clock with hourly time signal
- Melody alarm
- 12-digit tape and display, constants for \times/\div , independent memory, sub-total/total, %, [P] print key, [M] key, item counter
- 3-digit comma markers
- Full decimal system: Floating, fixed (0-4) with round-off or cut-off, ADD-mode
- Clock - 18 months on two penlight batteries (UM-3)
- Calculator - 2-way power source: AC (AD-4150 adaptor) or DC (four penlight batteries)
- 2"H x 5-3/4"W x 12-1/4"D, 28.5 oz.

\$109.95 Order No. CSOJR510
Shipping Wt. 2 lbs.



HR-20



CP-10

CREDIT-CARD SIZE

FX-78

- 8-digit or 6-digit mantissa with exponents up to 10^{-99}
- 37 scientific functions, independent memory, 6-level parenthesis, standard deviations, true algebraic logic, constants for $-1/2/3/4/X/Y/X_n$
- Power-saving automatic power-off function,
- 500-hr. battery life
- 3/16"x2-1/8"x3-5/8"



\$29.95

Order No. CSOFX78
Shipping Wt. 2 lbs.

FX-7100



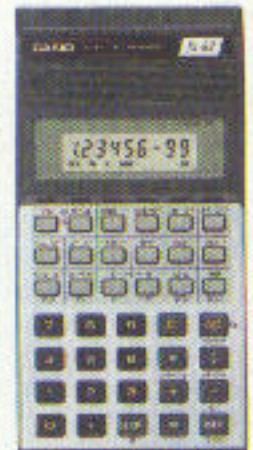
- 8-digit or 6-digit mantissa with 2-digit exponents
- 39 scientific functions, independent memory, true algebraic logic, constant for 6 functions, percentage,
- Countdown alarm • Clock • Alarm
- Time tones every hour • 1/100 sec. stopwatch
- 1 year on 2 batteries
- 3/16"Hx2-1/8"Wx3-5/8"D

\$49.95

Order No. CSOFX7100
Shipping Wt. 2 lbs.

FX-82

- 8 digit or 6 digit mantissa with 2 digit exponents
- 30 scientific functions, independent memory, 6 level parenthesis, true algebraic logic, constant for 6 functions
- Automatic power off
- 4,000 hours battery life on 2 penlight batteries
- 3/4"x3"x5-7/8"



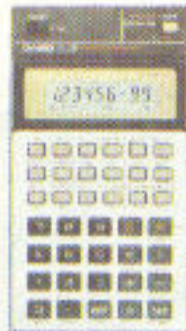
\$19.95

Order No. CSOFX82
Shipping Wt. 5 lbs.

FOLD-FLAT

FX-310

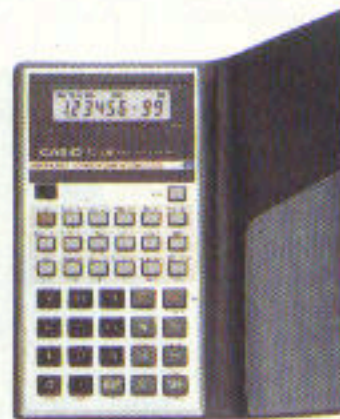
- 8-digit or 6-digit mantissa with exponents up to 10^{-99}
- 50 scientific functions, independent memory, 6-level parenthesis, standard deviations, random numbers, fractions, constants for $+/-/2/3/4/X/Y/X_n$
- Automatic power-off function with memory retention
- 180-hr. battery life,
- 1/4"x2-3/4"x5-1/4"



\$24.95

Order No. CSOFX310
Shipping Wt. 3 lbs.

FX-350



- 6-digit mantissa + 2-digit exponent
- 1,300 hours on one lithium battery
- 3/8"Hx2-7/8"Wx5-1/4"D
- Fine carrying case

\$29.95

Order No. CSOFX350
Shipping Wt. 3 lbs.

FX-8100

- 10-digit or 8-digit mantissa with 2-digit exponents.
- 46 scientific functions, independent memory, 5 level parenthesis, standard deviation, true algebraic logic, constant for 6 functions, percentages, fractions,
- Countdown alarm
- Clock • Calendar • Alarm
- Time tones every hour
- 1/100 sec. stopwatch
- 1 year on 2 batteries
- 1/4"Hx2-3/4"Wx5-1/8"D



\$49.95

Order No. CSOFX8100
Shipping Wt. 3 lbs.

PROGRAMMABLES



FX-3600P

- 10-Digit mantissa - 2-Digit exponent
- Simple programming (38 steps), integrals, regression analysis, 7 memories.
- 1,300 hours on one lithium battery
- 3/8"Hx2-7/8"Wx5-1/4"D
- Fine carrying case

\$39.95

Order No. CSOFX3600P
Shipping Wt. 3 lbs.

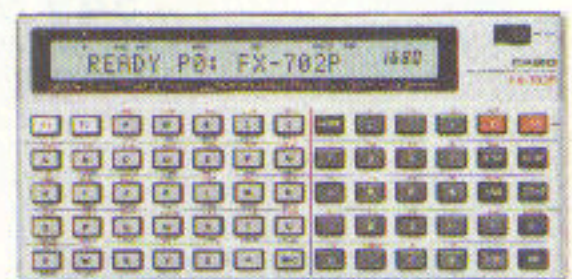


FX-602P

- 10-Digit mantissa - 2-Digit exponent
- Alphabetic dot matrix display (86 characters upper/lower case letters of the alphabet, numbers, symbols and special characters).
- 32 (min.) - 512 (max.) program steps, 22 (min.) - 88 (max.) memories.
- Program/data storage via the optional adaptor FA-1
- 660 hours on two lithium batteries
- 3/8"Hx2-3/4"Wx5-1/2"D
- Fine carrying case
- Program library

\$99.95

Order No. CSOFX602P
Shipping Wt. 4 lbs.



FX-702P

- Handheld personal computer
- 20-Digit dot matrix - 4 digit seven segment LCD display
- Uses Basic Program Language
- 1600 program steps maximum
- 226 memories maximum
- 10-Digit mantissa + 2 digit exponent for calculations
- 55 Scientific functions
- 20 Level parentheses
- True algebraic logic
- 5/8"Hx6-1/2"Wx3-1/4"D

\$169.95

Order No. CSOFX702P
Shipping Wt. 7 lbs.



Lithium 5 yrs.

Lithium 5 yrs.

Lithium 5 yrs.

(Black)
\$39.95
 Order No. CSOW1001
 Shipping Wt. 1 lb.

(Black)
\$59.95
 Order No. CSOW1501
 Shipping Wt. 1 lb.

(Black)
\$54.95
 Order No. CSOW150C1
 Shipping Wt. 1 lb.

Depth-tested to 100 meters.

WATER SPORTS

- Hour, minute, second, am/pm, month, date, day
 - Auto-calendar set at 28 days for February
 - 12/24 hour formats
 - Stopwatch
(Working range) 59 minutes 59.99 seconds
(Mode) Net time/lap time/1st-2nd place times
 - Countdown alarm with repeat
(Input range) From 1 minute to 11 hours 59 minutes (Unit) Second
(Mode) Net time
 - Daily alarm
 - Hourly/half-hourly time signals
- Accuracy: ±15 Seconds

The watch that can be kept safely on the wrist while swimming, surfing, snorkeling, sailing, etc. Because they are advanced electronic digitals they can combine their ever accurate characteristics with simultaneous time and date display, a daily alarm, time signal, countdown alarm and a stopwatch — with continuous time display.

THE JOGGER

THE WATCH THAT CAN IMPROVE YOUR TIME.

- Step length
- Elapsed time
- Distance covered
- Steps per minute
- Jogging speed
- Calendar alarm watch

Casio's J-100 is a 1 piece, calendar and calculator as well. It also boasts a daily alarm and an hourly time signal plus a dual time function. It can also serve as a chronograph, measuring net, lap and first and second place time with 1/100 of a second accuracy. It has the ability to let the runner set his (or her) stride in feet and inches and meters. The watch will then measure a joggers pace, distance, speed, steps (or strides) and time.

\$49.95
 Order No. CSOJ1001
 Shipping Wt. 1 lb.



The Calculator Watch with a Galaxy of Fun & Features

The Casio CA-90 is an advance on previous all-purpose digital calculator watches, a wrist microcomputer for making fast calculations that also lets you test your reactions on its invader game. FTS (Finger Touch System) is here too. With it you don't have to use a pen or the like to punch the keys.

The CA-90 has one-push changeover between 12 and 24 hour formats, daily alarm, hourly time signal, tone control, 8-digit calculator and invader game functions, a tone signal that sounds when the stopwatch is started and stopped, and an accuracy of ±15 seconds a month. A Watch that has it ALL.

INVADER GAME CALCULATOR-ALARM

Hour, minute, second, am/pm, date, day, year, month
 Auto-calendar pre-programmed until the year 2002

- 12/24 hour formats
 - Calculator
8 digits (7 digits for negatives)
(Abilities) Four basic calculations, chain & mixed operations, constants for π , e
 - Stopwatch
(Working range) 23 hours 59 minutes 59.99 seconds
(Mode) Net time/lap time/1st-2nd place times
 - Daily alarm
 - Hourly time signal
 - Dual time
 - Game
 - Tone pitch control (10 different tones are provided)
- Accuracy: ±15 seconds



(Black)
\$49.95
 Order No. CSOCA901
 Shipping Wt. 1 lb.

(Black)
\$69.95
 Order No. CSOCA9011
 Shipping Wt. 1 lb.

2-WAY: TIME MONITOR CENTER

ANALOG-DIGITAL



(Black)

Digital: Hour, minute, second, date, day, month

Auto-calendar set at 28 days for February

- 12/24 hour formats
- Analog timekeeping (dual time): Analog: Hour, minute; Digital: Second
- Stopwatch (Working range) 11 hours 59 minutes 59.99 seconds (Mode) Net time/lap time/1st-2nd place times
- Countdown alarm (Working range) 60 minutes (Unit) Second (Mode) Net time
- Daily alarm
- Hourly/half-hourly time signals

Accuracy: ± 15 seconds

Lithium Battery: Approx. 18 months

\$49.95

Order No. CSOAA851
Shipping Wt. 1 lb.

ANALOG-DIGITAL



(Black)

Analog: Hour and minute hands, seconds
Digital: Hour, minute, second, am/pm, month, date, day

Auto-calendar set at 28 days for February

- 12/24 hour formats
- Stopwatch (Working range) 59 minutes 59.99 seconds (Mode) Net time/lap time/1st-2nd place times
- Daily alarm
- Hourly time signal
- Date memory

Accuracy: ± 15 seconds

\$69.95

Order No. CSOAG201
Shipping Wt. 1 lb.

ALARM CHRONO

Hour, minute, second (or day), am/pm, date

Auto-calendar set at 28 days for February

- Stopwatch (Working range) 11 hours 59 minutes 59.9 seconds (Mode) Net time/lap time/1st-2nd place times
- Daily alarm
- Hourly time signal

Accuracy: ± 15 secs.

\$29.95

Order No. CSOF821
Shipping Wt. 1 lb.



(Black)

**CASIO
is
Digital.**

ANALOG-DIGITAL

Analog: Hour and minute hands
Digital: Hour, minute, second, am/pm, year, month, date, day

Auto-calendar pre-programmed until the year 2029

- Monthly calendar display (this month and next month)
- 12/24 hour formats
- Daily alarm with 3 selectable melodies ("Dixie Land", "Green Sleeves" or "My Darling Clementine")
- Hourly time signal with "Big Ben" tune
- Dual time
- Countdown alarm with repeat (Working range) 60 minutes
- Stopwatch (Working range) 59 minutes 59.99 seconds (Mode) Net time/lap time/1st-2nd place times

Accuracy: ± 15 seconds

\$59.95

Order No. CSOAX2101
Shipping Wt. 1 lb.



(Black)

LADIE'S ALARM

Hour, minute, second, am/pm, month, date, day... on its double display

Auto-calendar set at 28 days for February

- Daily alarm with 3 selectable melodies ("Nocturn (Op. 9 No. 2)", "Menuet de l'Arlesienne", or "Silver Threads Among the Gold")
- Hourly time signal
- Stopwatch (Working range) 11 hours 59 minutes 59.9 seconds (Unit) 1/10 second (Mode) Net time/lap time/1st-2nd place times

Accuracy: ± 15 seconds

\$49.95

Order No. CSOLM3001
Shipping Wt. 1 lb.



(Black)

For The Active Woman



LADIE'S SPORTS

Depth tested to 50 meters

Hour, minute, 10-second symbol, second (by flash), am/pm

Month, date, day

Auto-calendar set at 28 days for February

- Daily alarm

Accuracy: ± 15 seconds

\$39.95

Order No. CSOLW-501C-1
Shipping Wt. 1 lb.



(Black)

SEIKO



SEKHV001M



SEKHV043M



SEKHV044M



SEKHV060



SEKH-X027M



SEKH-X028M



SEKH-X042M



SEKFS232



SEKGG252

PART NO.	SPECIFICATION	SUGG.	YOUR COST
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ANALOG/DIGITAL QUARTZ WITH ALARM CHRONOGRAPH

Chronograph measures 1/100 second; records up to one hour.

SEKHV001M	AB T/H	215.00	161.25
SEKHV043M	SS T/H	195.00	146.25
SEKHV044M	YT T/H	275.00	206.25

Also available in gold tone: SEKHV044M

SEKHV060	YT T/H	225.00	168.75
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Chronograph measures 1/10 seconds; records up to 30 minutes.

SEKH-X027M	SS T/H	215.00	161.25
SEKH-X028M	YB T/H	250.00	187.50
SEKH-X042M	YT T/H-L	295.00	221.25

MEN'S ULTRA-THIN TWO-HAND DRESS QUARTZ

SEKFS232	YT H	195.00	146.25
SEKGG252	YB H	275.00	206.25

MEN'S ULTRA-THIN DRESS QUARTZ WITH SUB SECOND HAND

SEKLF018	YT H	195.00	146.25
SEKLF020	YT H	215.00	161.25

MEN'S ULTRA-THIN DATE QUARTZ

SEKFT022	YT H	235.00	176.25
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MEN'S DAY/DATE QUARTZ WITH FIVE-YEAR BATTERY LIFE

SEKHA120	YT H	175.00	131.25
SEKHA196M	YB T/H	250.00	187.50
SEKHA250M	YB T/H	195.00	146.25



SEKLF018



SEKLF020



SEKFT022



SEKHA120



SEKH-A196M



SEKHA250M



SEKXW028M



SEKH-H051M



SEKH-H052M



SEKFY474M



SEKXT240

PART NO.	SPECIFICATION	SUGG.	YOUR COST
MEN'S ULTRA-THIN DRESS QUARTZ w/ instant date setting calendar			
SEKXW028M	YB T/H	250.00	187.50
QUARTZ "SPORTS 100" SERIES w/ five year battery life			
SEKH-H051M	SS T/H	225.00	168.75
SEKH-H052M	YB T/H	275.00	206.25
SEKFY474M	YB T/H	275.00	206.25
LADIES' ULTRA-THIN DRESS QUARTZ			
SEKXT240	YT H	165.00	123.75
SEKXU056	YT H	195.00	146.25
SEKXU058	YT H	215.00	161.25
SEKXU350	YT H	185.00	138.75
SEKXU574	YT S	250.00	187.50
SEKXU575	YT S	250.00	187.50
SEKXU577	SS	110.00	82.50
SEKXT390M	YB S	325.00	269.95
SEKXU846M	YT H	250.00	187.50
LADIES' THREE-HAND QUARTZ			
SEKXU130M	YB T/H	195.00	169.95
LADIES' LC DIGITAL QUARTZ ALARM WITH TIMER			
SEKUK020M	YI H	195.00	146.25
SEKUK032	YT T/H	150.00	112.50



SEKXU056



SEKXU058



SEKXU350



SEKXU574



SEKXU576



SEKXU577

**Someday All Watches
Will Be Made This Way.**



SEKXT390M



SEKXU846M



SEKXU130M



SEKUK020M



SEKUK032

SPECIFICATION CODE:

- AB Anodized Aluminum Bezel/Stainless Steel Case
- SS Stainless Steel Case
- YB Yellow Bezel/Stainless Steel Case
- YT Yellow Top/Stainless Steel Case
- T Water-tested to 100 feet
- H HARDLEX Mar-Resist Crystal
- L Luminous
- S Sapphire Crystal

All SEIKO watches listed are manufactured in the United States, and may be serviced by any authorized SEIKO service center.

Shipping weight of all SEIKO watches is 1 lb.

Sizes Reduced For Photo Purposes (80% of Actual Size)

HANDHELD DISPLAY



Canon Card LC-52

The Credit Card Size 8-Digit LCD Calculator

- One memory capacity • About 3000 hours battery life of continuous use • Extra thin (3.5 mm) • Constant in addition, subtraction, multiplication, division • (%+) key for add-on, discount & percentage calculations • Square root key • Pocketbook-type accessory case • Uses 1 lithium battery.

\$17.95

SUGG. RETAIL \$19.95
Order No. CANLC52
Shipping Wt. 1 lb.

Credit Card Size Time-Date Alarm- Stopwatch-Calculator

- 8 digits and single live memory • Accurate crystal quartz clock displays day, date, hour, minute, and flashing second all year around • Alarm, stopwatch, laptime, and time signal functions • Approx. 1 year lithium battery life.

\$24.95

SUGG. RETAIL \$29.95
Order No. CANLC61T
Shipping Wt. 1 lb.



Canon Card
Quartz LC-61T

PORTABLE PRINTERS



Canon P3-D

\$39.95

SUGG. RETAIL \$44.95
Order No. CANP3D
Shipping Wt. 2 lbs.

Canon P5-D

\$49.95

SUGG. RETAIL \$54.95
Order No. CANP5D
Shipping Wt. 2 lbs.



Canon TP-8

NEW!

PalmPrinter Handheld Printing & Display Thermal Printer

- 8 digits and single live memory • Uses 1-1/2" wide thermal printing paper • Percentage and square root functions • Print ON-OFF switch for paper savings • Uses AC Adaptor AD-4 or DC 4 (AA) penlight batteries • Measures 2-13/16" x 6-7/8" x 29/32"

\$34.95

Order No. CANTP8
Shipping Wt. 2 lbs.

Canon P3-D High Mileage Economy Plain Paper PalmPrinter

- 10 digits and single live memory • Battery driven compact handheld printing and display calculator with 1-1/2" wide plain paper • Percentage function and decimal selector switch (Add-Mode or Floating) • Print ON-OFF switch for paper savings • DC with 4 penlight batteries (AA) • Measures 3-7/16" x 8-1/2" x 1-5/8"

Canon P5-D The Portable Printer Perfect For Personal Use

- 10 digits and single live memory • Handheld printing and display calculator with 1-1/2" wide plain paper • Percentage function and decimal selector switch (F,+) • Print ON-OFF switch Uses AC with Canon Charger CH-3 or DC with built-in rechargeable NiCd batteries • Size: 3-7/16" x 8-25/32" x 1-5/8"

Canon P7-D

Multifunctioned Palm-size Portable Printer

- 10 digits and single live memory • 1-1/2" wide plain paper • Percentage and non-add keys • Print ON-OFF, item count switch • Decimal selector switch • Uses AC with Canon Charge CH-3 or DC with built-in rechargeable NiCd batteries • Size: 3-7/16" x 8-25/32" x 1-5/8"

\$59.95

SUGG. RETAIL \$69.95
Order No. CANP7D
Shipping Wt. 2 lbs.

Canon P10-D

Lightweight Champion. The New Portable Printer With Adding-Machine Paper Tape.

- 10 digits and single live memory with item count, round off/down switches • Uses 2-1/4" wide plain paper • Powered by AC with Canon Charger CH-3 or DC with built-in rechargeable NiCd batteries • Size: 4-3/8" x 8-9/16" x 1-5/8"

\$69.95

SUGG. RETAIL \$84.95
Order No. CANP10D
Shipping Wt. 2 lbs.

DESKTOP PRINTERS

The Worthy Replacement
For Your Adding Machine:
Canon's Economical and Durable
Printing & Display Calculators.



Canon P101-D High Powered Printer with Display

- 10 digits with one accumulative memory
- Constant in multiplication & division
- Decimal selection 0-1-2-3 add-mode
- Automatic setting for dollars and cents
- (% +) key for add-on, discount & various % calculations, AC only • Size: 8-9/16" x 10-1/2" x 2-5/8"

\$114.95

SUGG. RETAIL \$129.95
Order No. CANP101D
Shipping Wt. 4 lbs.

The Canon P101 is also available. It functions the same as the P101D but without the display feature.

\$99.95

SUGG. RETAIL \$109.95
Order No. CANP101
Shipping Wt. 4 lbs.



NEW

Canon P36-D

New Heavy Duty High-Speed Printing & Display Calculator

- 12 digit with single live memory • Versatile item count function • Decimal selection switch: F, 0, 1, 2, 3, + Delta percentage, mark-up and percentage functions, AC only • Size: 7-3/32" x 9-27/32" x 2-1/2"

\$104.95

SUGG. RETAIL \$119.95
Order No. CANP36D
Shipping Wt. 4 lbs.

Accessories For Canon Calculators

Order Number	Description	Application	YOUR COST
canad-1	AC Adaptor AD-4 115 Volt	TP-8	6.00
cancp2	Ink Roller CP-2 (Box of 5)	P10-D	12.50
cancp8	Ink Roller CP-8 (Box of 5)	P101/D	15.00
cancp9	Ink Roller CP-9 (Box of 5)	P3-D, P5-D; P6-D, P7-D	12.50
can26i	Ink Roller CP-10 (Box of 5)	P26-D, P36-D	15.00
canchg3115	Charger-3 115 Volt	P5-D, P6-D, P7-D, P10-D	7.00
canchg3220	Charger-3 220 Volt	P5-D, P6-D, P7-D, P10-D	8.00
canlf1/2v	Lithium Battery 1/2V (Set of 10)	LC-52, LC-61T	30.00
can57	Roll Paper (Set of 5 Rolls)	P7-D, P6-D, P5-D, P3-D	1.00
canTP8	Thermal Roll Paper TP-38 (Set of 5 Rolls)	TP-8	2.50

SHIPPING WEIGHT FOR ACCESSORIES IS 1 LB.

The Canon P26-D is also available. It functions the same as the P36-D except it has 10 digits and is a slightly smaller unit.

\$89.95

SUGG. RETAIL \$99.95
Order No. CANP26D
Shipping Wt. 4 lbs.

From Any Telephone, Anywhere...

You get your messages with **Remote Beeper** with coded signal, programmed by you. **Remote Repeat** lets you listen as often as you like. **Remote Keep or Erase Messages** after you have heard your messages gives you a valuable choice. Instant "No Messages Received" Signal saves you time.

The XK3200 is totally computerized. Solid state microprocessor functions assure extraordinary reliability and simplicity. **Standard Twin Mini Cassettes** enhance ease of operation. Because of **VOX** (Voice Actuation) feature, callers are not restricted to the length of their message. When the caller hangs up, the unit releases the line. No blank spaces on the message tape. If the caller hangs up, **Calling Party Control** immediately disconnects the line; no wasted tape or tied up phone lines.

This unit has many more features including: **1 or 3 Ring Answering**, **Command Confirmation**, **Message Light System**, **Beeper Message**, **Easy Announcement Recording and Monitor**, **Fast Forward & Rewind**, **Last Message Alert**, **Fail Safe Mode**, **Two-Way Conversations Recording**, **Cassette Monitor**, **Answer Only**, **Full Tape Busy Signal**, and more.



The Computerized Remote Answering System

Olympia USA Inc.

\$299.95

Order No. OLYXK3200
Shipping Wt. 7 lbs.

XK3200

CODE-A-PHONE®



The Code-A-Phone® 1050 **NEW!!!**

The 24 hour-a-day message center.

- Answers your phone with your variable length, pre-recorded announcement up to 20 seconds in length. Lets you screen calls. Records 20 messages up to 30 seconds each.
- L.E.D. power indicator.
- Ring delay.
- Built-in condenser microphone.
- Call Control® lets you advance from message to message. No waiting between messages. No annoying dial tones.
- Almond and burnt orange tones blend with any decor.
- Installation is as easy as plugging it in.
- Added value — HOI-150 adapter included.

\$109.95 Order No. CAP1050
Shipping Wt. 8 lbs.
SUGG. RETAIL \$139.95



The Code-A-Phone® 1750

Voice-controlled message capacity up to thirty minutes. Plus Remote Command.

- Variable announcement up to 30 seconds
- Takes messages of any length up to thirty minutes tape capacity.
- 45 second fixed message time option.
- Fast rewind eliminates waiting. (Approx. 20:1 ratio.)
- Automatic fast forward to next message.
- Call screening lets you hear who's calling without answering the phone.
- Memo record.
- In-Use and Ready/Message Received L.E.D. lights.
- Built-in condenser microphone for taping announcements.
- Returns itself to answer mode automatically.
- Ring delay actually counts rings.
- Remote Command lets you monitor your messages from any phone in the world.
- Added value — HOI-150 adapter included.

\$229.95 Order No. CAP1750
Shipping Wt. 9 lbs.
SUGG. RETAIL \$299.95



The Code-A-Phone® 1450

The compact answering system with remote playback.

- Variable announcement length from 2 to 20 seconds
- Accepts up to 20 messages of 30 seconds in length.
- Message alert L.E.D.
- Call counter lets you know how many messages you have and helps you locate individual messages.
- Selective erase.
- Call screening lets you hear who's calling without answering the phone.
- Ring delay answers on first or fourth ring.
- Plays messages by remote command from any phone in the world.
- Automatic fast forward between messages.

\$149.95 Order No. CAP1450
Shipping Wt. 8 lbs.
SUGG. RETAIL \$249.95



The Code-A-Phone® 1550 MessageCenter®

The personal telephone answering system with the built-in push button phone.

- Record your variable length announcement (2 to 20 seconds) through an integrated handset
- L.E.D. message light signals messages.
- Accepts 20 messages of 30 seconds each
- Lighted call counter
- Fast forwards to next message in 1.5 seconds.
- Selective erase of any channel.
- Call screening through integral speaker
- Ring delay answers on first or fourth ring
- Outgoing calls can be made while Message Center is in "answering" position.
- Automatically stores last number dialed for automatic redialing.
- Remote command lets you hear your messages from any phone, anywhere in the world.

\$219.95 Order No. CAP1550
Shipping Wt. 8 lbs.
SUGG. RETAIL \$349.95

SPECIAL CODE-A-PHONE VALUE ONLY AT COMPUTIQUE

Free \$29.95 Value!

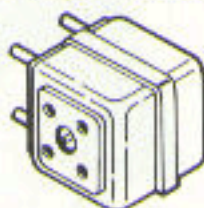
Purchase any Code-A-Phone and get an additional coder FREE.



A PLUG FOR OUR PLUGS

Our 4-prong cube adapter (HOI-1112). Converts any standard, 4-prong phone wall jack to a two-way, 4-prong wall jack. (So it functions as two, 4-prong jacks). No tools required.

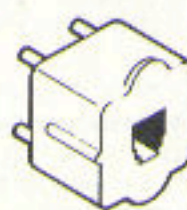
YOUR COST \$3.50
ORDER NO. CAPH0112



Accessories will accommodate all modular port answering devices.

Our modular-to-prong adapter (HOI-146). Converts modular jack to a 4-prong phone jack. No tools required.

YOUR COST \$5.00
ORDER NO. CAPH0146



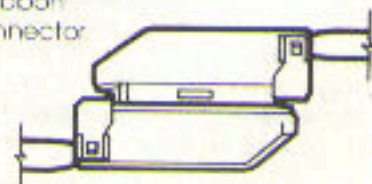
Our dual, 6-pin modular adapter (HOI-150). Converts any 6-pin modular jack to a dual 6-pin modular jack. No tools required.

YOUR COST \$5.50
ORDER NO. CAPH015X



SUPER TAP™
converts this...

Standard Ribbon Connector



Super Tap™
Sandwich/cinch connector
C180 ACC 406
The only multiline keyset FCC approved

YOUR COST \$29.95
SUGG. RETAIL \$33.90
ORDER NO. CAPST180

All accessories are 1 lb. ea. when purchased separately

THE MEMORY PHONE II IS A 24-NUMBER AUTOMATIC DIALER, TOO!

You'll find a lot of uses for the Memory Phone II because it's a telephone with a brain. It will remember up to 24 phone numbers programmed by you into its memory. And, on command, the Memory Phone II will automatically dial the number for you.

No More Wrong Numbers Or Hunting For The Phone Book.

When you use Memory Phone II like an ordinary phone, it even remembers the last number you dialed. It's just the thing when you can't seem to get through to a number that's busy. By continuing to press the re-dial button, you'll have a better chance of getting the next available connection.

CODE-A-PHONE®

Remember Code-A-Phone is made in the U.S.A. and carries full two year warranty.

IT'S MORE THAN A TELEPHONE.

Self-Contained Battery Back-up. You don't have to worry about reprogramming numbers if there's a power failure or you unplug the dialer to move it to another location.

Ear Piece

Dialing Pad. Used for dialing phone numbers, to program telephone numbers and for recall.

Last Number Dialed. This button saves you the time of having to re-dial a previously busy number.

2nd Button. This button is used to program or retrieve phone numbers in the second position.

Mouthpiece

On/Off Switch. To hang-up, just place phone face-down on any flat surface.

Store Button. Just press this button and the memory is ready to store your number.

Retrieve Button. To retrieve any programmed telephone number for automatic dialing, begin by pressing this button.

Pause Button. Each push will make a 2 1/2 second pause between digits, for example, you might place a pause between an outside line access and the phone number.

NEW

\$64.95 Order No. CAP960
Shipping Wt. 3 lbs.
SUGG. RETAIL \$99.95

THE TOLL CALL LIMITER FROM TECHNIDYNE



THE ANSWER TO UNAUTHORIZED LONG DISTANCE CALLS ON YOUR PHONE.

\$29.95 Order No. TCHTCL214
Shipping Wt. 1 lb.

Now you can be sure you're only paying for the long distance calls you want to pay for. The new key-operated Toll Call Limiter (TCL) from Technidyne limits long distance calling on your phone to people who have your permission and your key.

The key-operated Toll Call Limiter only allows long distance calling when the key is in position. Without the key, the pre-set TCL automatically disconnects your line the moment a long distance access number is dialed, or more than 7 digits.

Technidyne's Toll Call Limiter offers these unique advantages:

- It's tamper proof. TCL protection is foolproof. The device cannot be activated by metal clips, screwdrivers and the like. Only the key will allow long distance calling.
- It can be used on any kind of phone, residential or commercial, anywhere in the world.
- The TCL is also great for protecting your cordless phone.
- It's easy to install our TCL on your phone line between the telephone and the wall plug. All necessary plugs and cables are supplied.
- The price: only \$29.95 complete, which you'll probably save on your first monthly bill.

PHONE-GUARD

PHONE PRIVACY. DO YOU HAVE IT? ARE YOU SURE?



- Tells you home, at the office or wherever you travel. If it flashes red, someone is listening.
- You can be sure with Phone-Guard. A red light alerts you to taps and bugs on your line or phone, to extension phone lifters, and eavesdroppers.
- Phone-Guard is portable for travel security.
- Installation is simple. You simply unscrew your present phone mouthpiece and screw Phone-Guard on, and your phone privacy is assured.
- Fits Standard Phones. Probable GTE Adaptability Soon.

\$44.95

Order No. PHGRD
Shipping Wt. 1 lb.

Plug Into The **CONTROL** System For Lights & Appliances:

Introducing
The New 5 Piece **TIMER** system

Automatically
And Instantly...

And Now
Remotely...

Introducing
The New
**TELEPHONE
RESPONDER
CONTROLLER**



Telephone your home from ANYWHERE and turn lights and appliances on and off. Imagine now you can light up your home, cool it off or heat it up before you arrive.

NEW!!!

\$79.95
SUGG. RETAIL \$99.95
Order No. BSRTR2700
Shipping Wt. 2 lbs.

It runs Your House Like Clockwork. Just PLUG it in and program lights and appliances on and off automatically and instantly up to twice a day.

\$114.95
SUGG. RETAIL \$149.95
Order No. BSRTS555
Shipping Wt. 3 lbs.

NEW!!!

New **MINI
CONTROLLER**



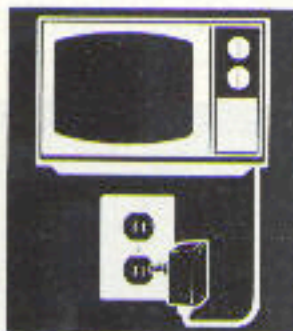
Priced just right to get you started and a perfect extension to your existing X-10 System. Special features include Dim and Bright All Lights On, All Units Off, Wall Mounting, Group Control and more.

NEW!!!

\$19.95
SUGG. RETAIL \$29.95
Order No. BSRMC260
Shipping Wt. 2 lbs.

People will think you're home
even when you're not.

Since the System X-10 can automatically turn individual lights on and off more than once a day (as well as turn on a stereo or TV), your house will always have the security of a lived-in look. What's more, you'll never have to come home to a dark, lonely house, again. The amazing BSR System X-10. It will make you feel more comfortable. Even when you're not home.

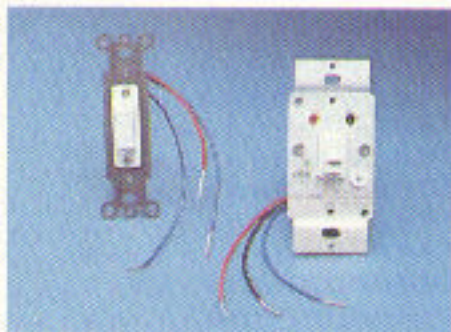


Plug Into Peace Of Mind.

New Modules For 1981

NEW!!!

Introducing the **NEW WS2677** 3-way Wall Switch Set, for use in applications where 2 switches operate 1 light fixture.



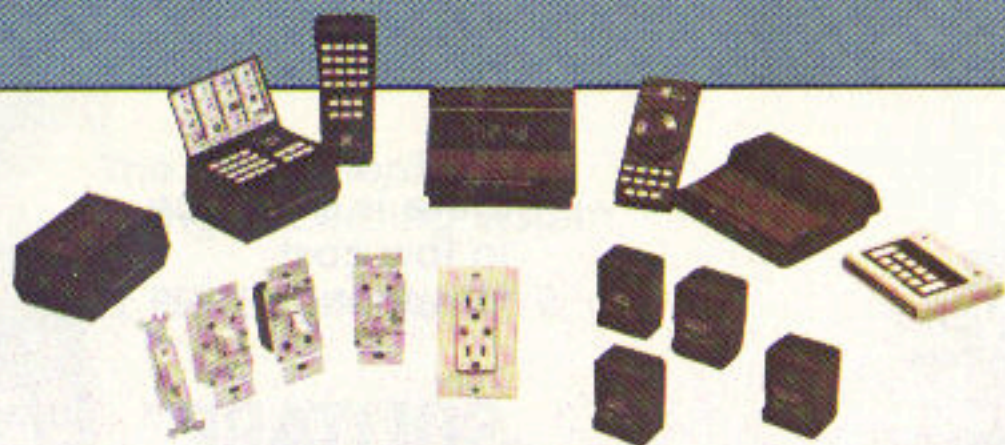
\$19.95
SUGG. RETAIL \$24.95
Order No. BSRWS2677
Shipping Wt. 1 lb.



\$19.95
SUGG. RETAIL \$24.95
Order No. BSRSR227
Shipping Wt. 1 lb.

NEW!!!

Introducing the **NEW SR227**, Wall Receptacle Module with Custom Wall Plate.



PLUG INTO BSR SYSTEM X-10 — No Special Wiring is Needed.

Order Number	Description	Sugg Retail	YOUR COST	Ship. Wt. (lbs.)
Controllers				
BSRTR2700	Telephone Responder/ Controller Set includes (1) TR270 Responder, (1) TR274 Remote Telephone Transmitter	99.95	79.95	
BSRTR274	Remote Telephone Transmitter	29.95	24.95	1
BSRTC211	Timer , features 3 ways to set lights and appliances: ONCE sets things to go on and off one day at a time. SECURITY sets lights and appliances to go off at random times with a half hour of pre-set times. DAILY sets the system to go on and off at exactly the same time every day.	74.95	54.95	2
BSRUC301	Ultrasonic Command Console used with Ultrasonic Cordless Controller to operate lights and appliances from one convenient location.	49.95	34.95	4
BSRCC401	Ultrasonic Cordless Controller signals Ultrasonic Command Console from up to 30 feet away	24.95	19.95	2
BSRSC311	Standard Command Console	44.95	29.95	2
BSRMC260	Mini Controller	29.95	19.95	2

Order Number	Description	Sugg Retail	YOUR COST	Ship. Wt. (lbs.)
Systems				
BSRTS555	5 Piece Timer System: (1) Timer, (2) Lamp Modules, (1) Appliance Module, (1) WS711 Wall Switch	149.95	114.95	3
BSRPF500	5 Piece Starter System: (1) UC301 Ultrasonic Command, (1) CC401 Cord- less Controller, (2) Lamp Modules, (1) Appliance Module	129.95	84.95	3
BSRPF400	4 Piece Starter System: (1) SC311 Standard Console, (2) Lamp Modules, (1) Appliance Module	99.95	64.95	2
BSRPF355	3 Piece Mini Controller Starter: (1) MC260 Mini Controller, (1) Lamp Module, (1) Appliance Module	64.95	47.95	2
Accessories				
BSRLM501	Lamp Module	18.95	13.95	1
BSRAM611	3 Prong Appliance Module	19.95	14.95	1
BSRWS711	Wall Switch with Push Button, on/off	19.95	14.95	1
BSRWS701	Wall Switch Module	16.99	9.95	1

Every 10 seconds, a burglary takes place somewhere in the United States. There was a 20% rise in violent crime during 1980, the highest in 10 years.

Luckily, we have two unique products to help keep you from becoming another crime statistic.



\$39.95
Order No. BMSALERT
Shipping Wt. 1 lb.

1. Portable intrusion alarm

How can you protect your home or business without spending a fortune on a perimeter security system? How about when you're sleeping in a hotel room, an easy mark for the growing population of hotel burglars?

Simply place the pocket-sized SensAlert™ in any room, aiming the sensor toward doors or windows. As soon as an intruder enters, the movement triggers an ear-splitting 90-decibel alarm.

Place a SensAlert in every room at home, for a fraction of the cost of a security system. Carry a SensAlert in your briefcase or pocket when you travel, for protection in hotel rooms. There's no installation and no electrical wire: SensAlert runs on durable, 1.5 volt batteries.

A free sign for your door knob is included with each order. It warns that the room is protected by SensAlert.

A special feature makes SensAlert more than a burglar alarm, it has 3 settings: soft, loud, and louder. Turn the volume to "soft" and a pleasant 6-second tone lets you know someone has come in. Place it at the entrance of your business. Or at your backyard gate while you sunbathe. You always know someone has arrived. No surprises. Nobody kept waiting.

Put SensAlert in your desk drawer at the office. It will go off if anyone opens it while you're out.

A built-in light allows you to use SensAlert as an emergency flashlight. The alarm can also be triggered manually, for a distress signal.

GET BURGLARS COMING AND GOING.



\$24.95
Order No. BMSMATE100
Shipping Wt. 1 lb.

2. Plug-in theft protection

Valuable electrical equipment is at the top of a burglar's hit list. Typewriters, adding machines, TV's, stereos, tape recorders, power tools.

It only takes a few seconds to unplug and carry off a TV or typewriter. A quick, easy theft and resale. You're vulnerable at home and at the office.

Before Alertmate™, you had two choices: bolt appliances to furniture, or invest in a costly and complex security system.

Now you can simply plug the Alertmate into the wall outlet, secure it with one screw, plug in the appliance, and set the number combination.

If a thief pulls out the plug, a 90-decibel alarm goes off. And keeps going. A definite theft deterrent! The only way to deactivate the alarm is to plug the appliances back in, or dial the correct number code. The alarm will also ring if the cord is cut.

A free sticker is included. It states that the equipment is protected by Alertmate and gives you a space to write in the name of an individual who has the combination.

When you want to move equipment yourself, you simply deactivate the alarm with the combination. Protect each piece of expensive equipment inexpensively and easily, with Alertmate.

It could cost you over \$1,000 to install security systems giving you the same amount of protection as SensAlert and Alertmate.

**BIOMETRIC
SYSTEMS, INC.**

Anticipated
Availability
December 1981



The telephone answering system that's perfect for home or office.



The GTE Executive 6000™

- Dual cassette with two outgoing messages
- Vox or 30 second message recording
- Incoming call monitoring
- Remote playback from any telephone with skip & repeat features for message selection

\$199.95
SUGG. RETAIL \$249.95
Order No. GTE6000
Shipping Wt. 11 lbs.

Now there is a choice in low cost telephones

The SOLITARE™ II TELEPHONE

\$29.95
SUGG. RETAIL \$34.95
Order No. GTESOL2
Shipping Wt. 2 lbs.



You don't have to settle for the traditional desk model if you're looking for a low cost telephone. The GTE Solitare II telephone offers contemporary styling and advanced features for a comparable price. This sleek, one-piece phone is lightweight, not bulky or cumbersome. And the Solitare II telephone has the Universal Dialing Keypad — so you can enjoy pushbutton convenience without Touch Calling costs. An "easy on the ear" electronic tone ring has replaced the shrill bell of conventional telephones. We've included a handy wall hanger so you can use your Solitare II telephone on the desk or wall — whatever's most convenient. So if you've been looking for a low cost phone with up-to-date features, see the Solitare II. It's the real choice.

FLIP-PHONE™ II



Now with advanced features.

- **Redial Feature** — When you reach a busy number, there's no need to dial again. A simple press of the redial button and the Flip-Phone II dials the number for you.
- **Mute Feature** — Keep this depressed and the party on the other end of the line can't hear you. But you can still hear them.
- **Lo/Hi/Off Ring** — Choose from having your Flip-Phone II ring soft, loud or not at all.
- **And Flip-Phone II** still offers the same lightweight, compact design as the original Flip-Phone. The Universal Dialing Keypad allows pushbutton operation on most rotary dialed and Touch Calling private lines.



\$49.95
SUGG. RETAIL \$64.95
Shipping Wt. 2 lbs.

Order Number
GTE89419 White
GTE89421 Almond
GTE89436 Rust
GTE89422 Brown

SERIES 3000™



Telephone Answering System

\$109.95
SUGG. RETAIL \$119.95
Order No. GTE3000
Shipping Wt. 11 lbs.

Put your phone to work for you with this smartly designed answering system. The Series 3000 can handle up to 60 minutes of incoming messages while you're away from home. The Call Monitoring feature lets you screen calls before answering when you are home. Power and message indicator lights let you know the unit is on and if any messages have been recorded. Standard telephone jacks make installation easy. The Series 3000 — it puts your phone to work!

The Total Telephone Answering Recording System.

ITT PERFECT ANSWER™ 2



\$399.95
SUGG. RETAIL \$499.95
Order No. ITT6500
Shipping Wt. 8 lbs.

Featuring exclusive **REMOTE VOICE COMMAND**... eliminates the "beeper!" It allows you to call in and receive your messages from any outside telephone simply by using a preset code. Built-in telephone with Push Button Tel-Pulse™ Dialing that operates on both rotary or touch tone dialing. Other features include Memory Redial, LED alpha/numeric display for Message Counter and operating functions, and Dual Cassettes.

ITT EASY ANSWER™ 2



A Welcome Addition To Any Busy Household!

Records all your important messages. Easy to operate with single knob function selector. Features Total Recorder beeper for remote message playback, dual-tone action allows rewinding and replaying of messages. Voice activated incoming message system accepts messages from 7 seconds to 2 minutes. Other features include Tape Counter, Dual Cassettes, and Built-in Phone Jack.

\$219.95
SUGG. RETAIL \$269.95
Order No. ITT4500
Shipping Wt. 8 lbs.

INTRODUCING THE NEW
ITT CORDLESS PHONE SYSTEM

NEW!!!



\$249.95
SUGG. RETAIL \$299.95
Order No. ITT1800
Shipping Wt. 7 lbs.

Inside, Outside, Anywhere...
You'll Never Miss A Telephone Call.

With the new **ITT Cordless Phone**, you can place and receive calls in any room of your home; in your garage or workshop, on your patio, at your pool, even your next door neighbor's backyard without cords or wiring.

Connect the base station to any modular telephone jack and use the portable phone anywhere within range (up to 1200 feet). The ITT unit has features as exciting as its good looks. **CALL-ON-HOLD INTERCOM** allows conversation between the base station phone and portable phone while an incoming call is kept on hold. **TRUE INTERCOM** feature operates between the portable phone and the base station without tying up your telephone line.

The New 1800 has a built-in charger in the base plus a **REMOTE CHARGER** for recharging the portable phone away from the base unit, **TEL-PULSE PUSH BUTTON DIALING** that operates on rotary or tone lines, a **MEMORY REDIAL BUTTON** to automatically dial the last number called, an **FM DUPLEX SYSTEM**, and more.

ITT ULTRA 80™ Telephone

**OWN
-A-
PHONE™**

Sleek, contemporary styling makes the Ultra 80 the perfect Christmas gift. Compact one-piece unit fits right in the palm of your hand. To use, simply pull to open, push closed to hang up. The unique Ultra 80™ features Memory Redial which instantly recalls the last number dialed, Ringer Shut-Off switch, and Tel-Pulse™ dialing that operates on either rotary or tone dialing systems.



ORDER NOW AND RECEIVE
THE ULTRA 80™ HOLDER FREE!
A \$20.00 VALUE!

This attractive three-piece holder can be used as desk organizer, wall mount or to mount Ultra 80 on wall plate jack.

\$49.95
SUGG. RETAIL \$79.95
Order No. ITT80
Shipping Wt. 2 lbs.

Record a Call[®]

Headquarters for Record a Call



90A Dual Remote is Here!

The ultimate telephone answering machine with a remarkable remote message retriever!

\$324.95

Order No. RAC90A
Shipping Wt. 10 lbs.

From any phone in the world, the Dual/Remote 90A can be reprogrammed with a new outgoing message. The 90A also features a backspacing function that rewinds the stored message to be played over and over again to any point by remote control.

VOX (voice actuation) lets callers speak as long as they wish, ring adjust control, silent monitor, hear who is calling without talking to the caller, legal two-way conversation record, announce only, twin cassettes, fast forward, and rapid erase functions.

Get your messages from anywhere in the world! Plus 1. Change outgoing message by remote; 2. Backspace by remote.

4 Great Ways to Answer Your Phone Automatically

FEATURES OF ALL MODELS

SIMPLE, ONE CONTROL OPERATION TWO CASSETTE SYSTEM Incoming — Records one standard size cassette. **Outgoing** — Endless Loop Cassette. Cassettes available in different lengths. **EXCLUSIVE SILENT MONITOR** — Only the caller's voice is heard. **ANNOUNCE ONLY** — gives your message to caller, then hangs up. **DICTATION CAPABILITY, FAST FORWARD, RAPID REWIND, RAPID ERASE, MESSAGE LIGHT** — burn-out proof electronic LED. **TWIN INTEGRATED CIRCUIT AMPLIFIERS, HIGH QUALITY DYNAMIC MICROPHONE, COMPACT SIZE** — 9" x 11-7/8" x 3-7/8". **WARRANTY** — One year parts, excluding cassettes and accessories; 90 days labor. **AC POWERED** • Blinking message indicator light • Ability to record both sides of conversation while unit beeps from time to time to make the copy legal and acceptable in court • Variable RING, can be set to ring one to several times before answering the call. Plug into any Bell System phone jack, with no monthly service charges.

Order Number	Description	Sugg. Retail	YOUR COST	Ship. Wt. (lbs.)
RAC60A	60A One Control Twin Cassette System featuring Message Time Selection	\$149.95	\$119.95	9
RAC70A	70A All the Main Features Plus Voice Actuation	199.95	159.95	9
RAC80A	80A All the Main Features Plus Remote Control and Voice Actuation	299.95	239.95	9

Feature for feature... the ultimate cordless telephone

The Muraphone MP-600/601 is considered by those who own one as the best of the cordless telephones.

And no wonder for this Muraphone has many outstanding features. Many of the features are not available in any other cordless phone, regardless of cost. For example, **FULL DUPLEX CIRCUITRY** means that a Muraphone operates (you can talk and listen at the same time) and produces the sound quality of a conventional phone. **BATTERY RECHARGING CORD** You can use your Muraphone at the time, anytime. Muraphone is never out of operation because the batteries need recharging. A color coordinated, lightweight coil cord battery charger plugs into any AC outlet and recharges the batteries even when you're using the Muraphone. **EXTENDED RANGE** You can be up to 600 feet or more from your phone (either indoors or out) and use your Muraphone to make or receive calls, whether they're around the corner or half way around the world. **THE MURAPHONE HAND UNIT (MP-600)** with its award winning design weighs in at only a fraction of an ounce more than your regular phone receiver. It's extremely comfortable to hold and is easily carried in a pocket. The MP-600 has a 12 button dial pad that includes a "last number recall" memory button. **THE MURAPHONE BASE (MP-601)** is a true "hide away" unit. There's never a need to use it once in place. The base has a security switch that prevents outgoing calls over the Muraphone but still permits you to receive calls.

In addition to its fine operational qualities, you'll find Muraphone an esthetic pleasure. The hand unit is finished in a rich brown and almond color. Its thin, graceful shape and clean design will provide a touch of elegance and good taste to any decor.



MURAPHONE[™]

CORDLESS EXTENSION TELEPHONE

If you are not yet aware of all the pleasure and convenience a cordless extension telephone can provide... or if you've been waiting for a fine, full feature cordless phone at a reasonable price, you owe it to yourself to discover the exciting Muraphone MP-600/601.

\$169.95

SUGG. RETAIL \$220.00
Order No. MURMP600
Shipping Wt. 5 lbs.

The New System...The New Concept... That Makes Telephone Communicating Simple And More Efficient. Here's Why!

- Stores 30 frequently called numbers anywhere in the world. Dials faster and eliminates wrong numbers.
- Programmable Re-Dial gets you through a busy line faster.
- Touch-tone or rotary dialing (fast or slow). Your choice, flick a switch.
- Unique Electronic FLOCOM™ lock prevents unauthorized use and keeps private numbers a secret.
- Automatic stopwatch times all outgoing calls.
- Quartz clock displays time of day in hours, minutes and seconds.
- Solid touch pressure sensitive dial pad.
- Dial any number at a single touch without lifting the receiver.
- Places callers on hold.
- Built-in speaker for group listening.
- Adds 'Touch Button Dialing' to any phone.
- Extendable pause control (for centrex and internal phone systems).
- All numbers dialed manually or automatically are shown on the extra large LED readout display.
- Quickly cancels any operation in progress by 'touching any key'.
- Back Space Erase™—No need to re-program a complete number if a mistake has been made.
- Beep Tone ensures that each key has been registered when pressed.
- Simple labelling system.
- Back up battery compartment ensures full operation during a power failure.
- Provides access to computers requiring more than 16 digits.
- Desk top or wall mounted.
- Four emergency storage locations.
- UL and CSA approved.
- Simple Telephone Company approved multi-line connection.
- 90 days parts and labour.

the PHONE CONTROLLER



\$99.95

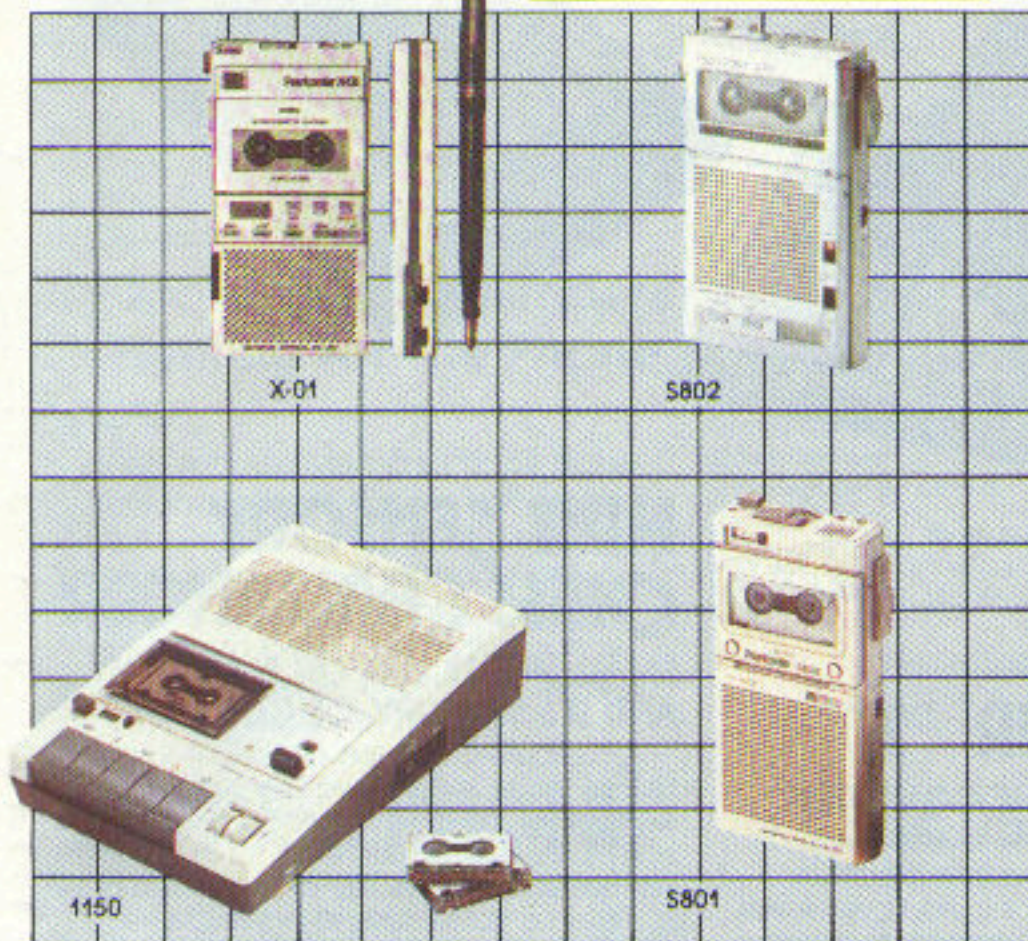
SUGG. RETAIL \$119.95
Order No. DPC
Shipping Wt. 3 lbs.



DICTOGRAPH CORPORATION

The Ultimate
in Practical
Microtechnology.

Pearlcorder™ MICROCASSETTE™



THE SUPERBLY SMALL, SLIM, LIGHT PEARLCORDER X-01

No bigger than a pocket diary, the new PearlCorder X-01 is both the smallest and the lightest MICROCASSETTE recorder in the world. Thanks to the X-01's high powered LS_i electronic control replaces mechanical functions, cutting weight to a mere 6.9 oz. (195g) with batteries. For the same reason the X-01's **feather-touch controls**—another world first—finally solve the problem of which control goes where. Every button is instantly available on the control panel, along with the sophisticated Liquid Crystal Display.

Thanks to the 'Hold' button that makes accidental mode selection impossible, and the 'Pause' button set on the top, you can even record or play back without taking the X-01 out of your pocket. Deluxe features include one-button switching between modes, and a choice of two tape speeds. Memory Counter, three power choices, full auto shut-off, optional remote control and much more. There's even a highly accurate quartz clock function on the Liquid Crystal Display that you can recall instantly at any time.

\$249.95

Order No. PRGX01
Shipping Wt. 2 lbs.

DELIBERATELY SMALL — SUPERBLY FUNCTIONAL

PEARLCORDER S801—Small and lightweight enough for comfortable one-hand operation the PearlCorder S801 Microcassette™ tape recorder offers the ultimate in high performance features including a memory function with a Liquid Crystal Display Digital Tape Counter, two recording speeds giving up to two hours recording time, an End of Tape Alarm and an Auto-Off in all modes. All that plus a full range of reliable PearlCorder accessories.

And the S801 produces a quality of sound that truly belies its size. So order your PearlCorder's S801 now...the ultimate in microcassette recording.

\$179.95

SUGG. RETAIL \$189.95
Order No. PRC5801
Shipping Wt. 2 lbs.

NEW!!!

OUTSTANDINGLY USEFUL — EASY TO USE

PEARLCORDER S802 specifications are deluxe all the way: choice of tape speeds—the normal 2.4cm/sec. or a slow 1.2cm/sec. for voice recording as long as two hours on a single MICROCASSETTE™, a precise digital tape counter with push button reset for fast indexing, and two different Rewind speeds. Rewind, Stop and Playback functions are all located on the same control button for effortless mode selection.

The S802 features a Cue function to skim through conversations to the important points. Full Auto Off system switches the recorder off automatically at the end of the tape. Of course, the S802 also adds the whole extra dimension of PearlCorder accessories. The slim profile and super convenient shirt-pocket compactness put the S802 high on your list of essential luxuries.

\$139.95

SUGG. RETAIL \$149.95
Order No. PRC5802
Shipping Wt. 2 lbs.

Includes

Pearlcorder S802 2-Speed Complete Set:
(1) 2-Speed Microcassette™ Tape Recorder S802; (1) Microcassette MC-60; (1) Earphone, E-85; (1) Carrying Case, CS-38; (1) Wrist Strap, ST-1; (2) Penlight battery, AA Size; Instruction Booklet; Warranty and Registration Card.

A PRICELESS ASSET IN EVERY OFFICE

The **OLYMPUS MICROCASSETTE Transcriber Model 1150** is a space-saving desk top unit. Fully compatible with MICROCASSETTE tapes recorded at either regular 2.4cm/sec. or 1.2cm/sec. speeds. You can adjust playback speed to individual typing speeds. The convenient fingertip keyboard permits direct switching between Playback, Fast Forward and Rewind modes.

A resettable tape counter and dual control foot switch and non-obstructive headset. Combining the ultra quiet drive unit with a 77mm Dynamic Speaker and Tone and Volume controls gives Model 1150 unmatched sound quality.

It is fully compatible with all tapes recorded on PearlCorders and other recorders using the MICROCASSETTE MC-60.

A simplified erasure system for erasing both sides of the MICROCASSETTE simultaneously—in just two minutes on Fast Forward, four on Rewind.

\$279.95

Order No. PRC1150
Shipping Wt. 7 lbs.

Includes

2-Speed Transcriber 1150 Complete Set:
(1) 2-Speed Transcriber 1150; (1) Headset, E-87; (1) Footswitch, RS-1; Instruction Booklet; Warranty and Registration Card.

ACCESSORIES for models 801, 802, X01 (Shipping Wt. For EACH Item is 1 lb.)

Order Number	Description	YOUR COST
PRCME5	External Mic w/on/off	\$49.95
PRCME4	External Microphone	29.95
PRCSP2	Extension Speaker/Amp	29.95
PRCTP1	Telephone Pickup	4.95
PRCKA232	Compat.cord	3.95
PRCRS3	Remote Control Switch	6.95
PRCRB1	Remote Control Switch with 2 AA batteries	10.95
PRCPA1	Plug Adapter	1.95
PRCA307	3V AC Adaptor	8.95
PRCA306	Universal 3V AC Adaptor	14.95
PRCAM301	Car Adaptor	17.95
PRCA8321	Battery Case	8.95

ACCESSORIES for Transcriber Model 1150

PRCE87	Headset	11.95
PRCRS1	Footswitch	21.95



MICROCASSETTE™

Although they're just 1/4 the size of a "compact cassette," **MICROCASSETTES** provide a full hour of recording or playback at the regular 2.4cm/sec. speed, or two hours (one hour per side) at 1.2cm/sec. And at 50 x 33.5 x 8mm, they're less trouble to mail and take up less storage space.

MICROCASSETTES — All model usage

Order Number	Description	YOUR COST
PRCMC60	Standard	\$3.50
PRCMC60AD	High Frequency	4.50
PRCHCT	Head Cleaning	3.50
PRCMC603	(3) MC-60 tape/pack	9.95



CHAMPION SENSORY CHESS CHALLENGER®

MEET THE WORLD CHAMPION! THE UNDISPUTED WINNER ON TWO CONTINENTS. IT THINKS, "SEES" EVERY MOVE, AND TALKS...IN ANY ONE OF FOUR DIFFERENT LANGUAGES.

It's the one you've been waiting for! CHAMPION SENSORY CHESS CHALLENGER®, contains an even better program than was used to win the First World Microcomputer Chess Championship in London, England, September, 1980, and the First Official North American Microcomputer Chess Championship held in San Jose, California. It has many of the outstanding features of Fidelity's Voice Sensory Chess Challenger® — the world's most sophisticated microcomputer chess game — PLUS:

- It thinks on its opponent's time for faster response.
- Any tournament time control can be set by entering the primary and secondary time controls.
- Take back feature reverses up to 15 moves or 30 half-moves in case you decide to change the direction of your game.
- Chess clock tells time remaining for each player, or tells elapsed time of game, automatically reversing for each player.
- Chess clock count down mode allows separate game times to be set for the human and the Computer.
- Special mate mode solves mating problems with amazing speed.
- Play mode allows two humans to play chess on its sensory playing surface. The Computer monitors play, announcing the moves, rejecting illegal moves.
- Has the ability to promote pawns to all legal pieces, and will announce the piece selected. When the human player promotes a pawn it will ask him to identify the piece selected.

Other features include walnut housing, hand carved, magnetized chess pieces, 100% solid state.

\$319.95 Order No. FELCSC
Shipping Wt. 7 lbs.
SUGG. RETAIL \$375.00



CHESS CHALLENGER® "7"

"IT'S YOU AGAINST THE COMPUTER".

CHESS CHALLENGER® "7" invites chess players to learn, improve and match their skills against a Computer's mind. Seven levels of playing difficulty from beginner to expert. An excellent chess game at an ECONOMICAL PRICE.

Look at these outstanding features:

- Seven different levels of playing difficulty, including "Mate in Two" and "Chess by Mail."
- Levels changeable during game.
- Random computer responses vary every game.
- Selection of offense or defense.
- Position Verification by computer memory recall.
- Plays opening defenses from chess books, i.e. Sicilian, French, Ruy Lopez, Queen's Gambit Declined.
- Analyzes as many as 3,024,000 board positions.
- Audio Feedback: Single tone each time you press a key; double tone when computer responds.
- Problem Mode: Establish your own chess positions and watch the Computer react.
- Override Key to make multiple moves.
- Add or subtract pieces during game.
- Pawn promotion to selected piece.
- En Passant Capture: by the Computer or it accepts your En Passant capture.
- Plays against YOU; plays against ITSELF!
- Sides changeable in MID-GAME on any move.

Numerous other features, including a simulated wood-grained housing, 12-1/8 x 8 x 1 inch high, large 1/2 inch LED display, and Staunton design chess pieces, 100% solid state.

\$99.95 Order No. FELCC7
Shipping Wt. 3 lbs.
SUGG. RETAIL \$115.00



MINI SENSORY CHESS CHALLENGER®

SMALL IN SIZE, BIG ON PLAYABILITY. AND IT'S SENSORY, OF COURSE!

A computerized chess opponent that's always ready, willing, and very able to play whenever you're in the mood — any time, any place. Battery operated, it's ideal for use on that car or plane trip, at the beach or picnic, in a hotel room, or anywhere you have the time and the inclination.

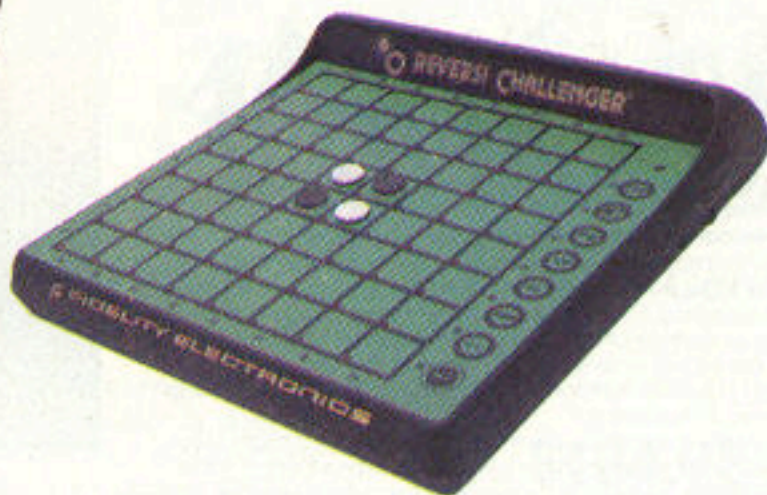
Advanced sensory playboard automatically recognizes and records your every move. Brightly lit LED's and beep tone graphically and audibly inform you of the computer's response. Simply press down on the piece you are moving, and LED's light to show your "from" location. Press the piece down on your "to" location, and the computer instantly knows which piece was moved and where it was moved to. No keys to press — you devote all your attention to the game.

Plays excellent chess, and provides these outstanding additional features:

- Infinite levels of play
- Levels changeable during game.
- Random computer responses make every game different.
- Select offense or defense.
- Position verification by computer memory recall at any time during a game.
- Problem Mode lets you set up piece positions to work out problems.

Includes compact, impact-resistant plastic housing, 100% solid state. Works on 6 AA 1.5 volt alkaline batteries. Optional AC adaptor available. 8-1/2" long, 4-1/2" wide, 1-7/8" high. (batteries not included)

\$49.95 Order No. FELMSC
Shipping Wt. 3 lbs.
SUGG. RETAIL \$60.00



SENSORY CHESS CHALLENGER®

THE FIRST THINKING CHESS GAME THAT "SEES" EVERY MOVE YOU MAKE!

Improved programming lets you play at any one of eight levels of difficulty. Works on batteries or plugs into any home wall outlet... play any time, anywhere! New sensory playing surface automatically tells the Computer your every move — from and to — and which piece was moved. The squares light up to graphically show you the Computer's next move. No keys to press — you don't have to learn programming procedures — SENSORY CHESS CHALLENGER® lets you devote all your attention to the game.

Plus these proven outstanding features:

- Eight levels of play, including "Mate in Two" and "Chess by Mail".
- Levels changeable during game: at any time, on any move.
- Random computer responses vary every game.
- Selection of offense or defense play.
- Position Verification by computer memory recall.
- Plays opening defenses from chess books, i.e. Sicilian, French, Ruy Lopez, Queen's Gambit Declined.
- Analyzes as many as 3,024,000 board positions. Uses up to 32,000 bits of Read Only Memory.
- Audio Feedback: Single tone each time you press key; double tone when Computer responds.
- Problem Mode: Establish your own chess positions and watch the Computer react.
- Add or subtract pieces during game.
- Pawn promotion to selected piece.
- Plays against YOU; plays against ITSELF; changes sides in MID-GAME.

Numerous other features include durable molded housing, uses four "C" size batteries (batteries not included) or plug-in transformer, 100% solid state.

\$129.95 Order No. FELSCC1
Shipping Wt. 4 lbs.
SUGG. RETAIL \$155.00

REVERSI CHALLENGER®

THE SPACE AGE WAY TO PLAY AN ANCIENT GAME. IT'S YOU AGAINST THE COMPUTER!

REVERSI, a popular game with the ancients, comes of age. It's man against machine. Match your powers of concentration against the high-speed computer "brain". Can you outsmart REVERSI CHALLENGER®? Can you plan your strategy to confuse the computer? How many moves ahead can you anticipate — and remember the computer never forgets! REVERSI CHALLENGER® features Fidelity's advanced Sensory playing surface — moves are automatically recognized and entered into the computer. Brightly lit LED's graphically illustrate from and to locations of each move and pleasing tones audibly signal that a move was made.

Additional features include: 18 different levels of playing difficulty.

- Skill levels changeable during a game.
- Change sides with the computer at any time.
- Reversi teacher. Will suggest your counter-move upon request, or watch it play against itself.
- Position Verification at any time.
- Problem Mode lets you set up special problems for the computer to solve or lets you add or remove pieces to change the advantage at any time.
- Take-back feature allows you to reverse any number of moves at any time during a game.
- Monitor Mode allows two humans to play. The computer checks each move to ensure it's legal, and lights up the squares to be "flipped".
- 100% solid state in durable plastic housing. Uses four "C" size batteries (batteries not included) or plug the AC adaptor into any convenient wall outlet.

\$129.95 Order No. FELRSC
Shipping Wt. 4 lbs.
SUGG. RETAIL \$155.00

VOICE BRIDGE CHALLENGER®

ONE OF THE WORLD'S MOST POPULAR CARD GAMES HOUSED IN THE MIND OF A MICROPROCESSOR...AND IT TALKS TO YOU!

You never have to miss a game of bridge... even if you're alone!

- Can be your partner (plays one hand).
- Can be your opponents (plays two hands).
- It's YOU against the Computer (plays the other three hands).
- Or the Computer will play all four hands.
- Great new bridge bidding and playing program.
- Clearly and audibly announces both human's and Computer's bids and plays, using accepted bridge terminology.
- Optic Scanner reads custom coded playing cards.
- Optional Random Dealing — if you wish, the Computer will deal out four hands at random without using the cards and scanner.
- Moving message display keeps you informed throughout the game, including rubber bridge score keeping.
- During the bidding, uses such well-known conventions as Stayman, Blackwood,* Gerber, Jacoby Transfers, Baron, Strong Two Club, Weak One No-trump Openers, etc.
- Combines essential features of Standard American bidding with some aspects of such European systems as ACOL.
- Forms and executes a plan of play much like a human player.
- Rejects illegal bids.
- Displays Revokes.
- Single tone provides audio feedback each time a card is optically scanned or a key is pressed.
- Indicates vulnerability and dealer.
- Will review bidding and last trick on demand.
- Computer always responds instantaneously.
- Uses 232,000 bits of Read Only Memory.
- Has 8,512 bits of Random Access Memory.

Numerous other features, including a solid hardwood housing, 13-1/8 x 8-1/2 x 1-1/8 inches, three felt playing fields, two decks of custom playing cards, 100% solid state, deluxe carrying case.

\$294.95 Order No. FELBVC
Shipping Wt. 7 lbs.
SUGG. RETAIL \$350.00

INTRODUCING GENESIS

Everyone's talking about the importance of exercise. But how can you tell if it's doing your heart any good?

One way is to monitor your pulse rate. But if you've ever tried to use a pulse meter, you know this is easier said than done. No pulse meter on the market has been able to give you accurate readings conveniently while you exercise.

The crystal breakthrough. The trouble with most pulse meters is that they use an older, temperamental monitoring process. They read blood density through your skin with a projection of infrared light. The slightest movement, light, or pressure can throw them off completely.

The Genesis Exercise Computer overcomes this problem for the first time. It uses a patented crystal which picks up the actual sound waves of your pulse. Much more precise, and movement or light don't interfere.

It's the first truly accurate pulse meter you can conveniently wear while you exercise.

Readings on the run. Strap the compact, 3-ounce Genesis Exercise Computer to your wrist. Program it easily with your minimum, maximum, and resting pulse rates. And go.

Not only will Genesis give you an on-the-mark pulse reading at any second, it'll tell you if you're over or under your present maximum or minimum.

90% of other pulse monitors force you to stop while taking readings, because movement upsets the computation. Genesis is unique in that it works while you move.

Why is this important? Two reasons. The first has to do with exercise. To strengthen your heart, doctors recommend 20-30 minutes of continuous exercise at 70% to 85% of your maximum heart rate. This is your "training zone." The Genesis computer tells you how many minutes you've exercised at the right pulse rate and warns you if you're not working hard enough.

The other reason has to do with life itself. The Genesis computer will give an audible warning if you're pushing your heart dangerously. While you exercise — or during a stressful day at the office. If your doctor has warned you about your heart rate, you know right away if things are getting out of hand.

THE WORLD'S ONLY EXERCISE COMPUTER.



Medical chip. A medically designed microprocessor chip inside the Genesis Exercise Computer makes it smarter than any other pulse meter. This is why it does much more than units costing 2-3 times as much. Genesis takes your pulse; lets you program your exercise zone simply and quickly; measures your cardiac recovery time, another key to fitness; paces you with a built-in metronome, if you like, and even tells time, in hours and seconds.

Reading your pulse properly isn't as simple as it might seem, because everyone's pulse is erratic. Your heart might have 5 fast beats, followed by 2 slow ones, 1 fast one, 4 slow ones, and so on.

The medical chip and patented Genesis sensor take this into account. Other less expensive devices "hold" an average of beats over a period of time (such as 20 seconds), which often gives distortedly high or low readings. Who wants to know what their pulse was 20 seconds ago? Instead, Genesis picks up every single beat of your heart and makes the computations instantly.

Program your pulse. Imagine having a direct line to your heart. That's exactly what the Genesis Exercise Computer gives you. It's an important tool for the serious exerciser, the cardiac patient, or anyone who wants to monitor the key indicator of health, fitness, and longevity.

Just program the Genesis Computer to tell you exactly what you need to know about your pulse rate. It's as simple as a digital watch, if not simpler.

Want an idea of how exact it is? In a recent comparison with clinical EKG equipment, it was rated at 94% accuracy that even amazes doctors. Pretty incredible for a device you wear on your wrist.



IS YOUR HEART EXERCISING WHEN YOU ARE?

NEW!!!

\$159.95

Order No. BMSGEN100
Shipping Wt. 1 lb.

BIOMETRICS, INC.

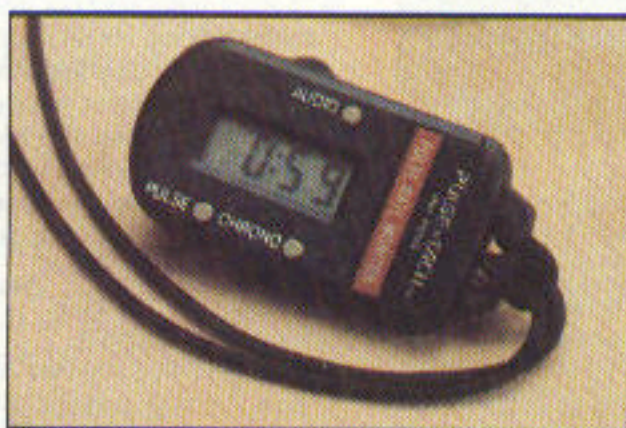
FIRST IN PERSONAL FITNESS ELECTRONICS™

PULSE TACH™



\$69.95

Order No. PMICPS4
Shipping Wt. 1 lb.



PulseTach Sports

PulseTach is the key to your successful fitness program.

\$99.95

Order No. PMIM416
Shipping Wt. 1 lb.



Cardiotachometer

PulseTach™ Sports measures your heart beat **before** and **after** sports activities so you can really know how your exercise program is working for you. Features include infrared pulse* sensor which scans the fingertip hundreds of times a second. Extra large instrument size Liquid Display means readability indoors and out. Flashing pulse indicator immediately displays each beat of the heart. Two Unique programs give speed and versatility in calculating pulse rate, which reads out in seconds. Circuitry operates effectively with a pacemaker. Chronograph times cardiac recovery and exercise programs. Solid state quartz timebase gives accuracy within 15 seconds a month. Audio beeper signals each heart beat, or may be switched off. Automatic shut off, low power consumption, long lasting batteries. It measures just 2 inches long and weighs less than 1 ounce. Lanyard keeps track of your PulseTach™, so it's right on hand. PulseTach™ is your incentive and your reward.

*Readings are not recommended while in motion.

Today's innovative system to measure, calculate and display what the pulse is doing, for the professional.

Simply slip it on the patient's finger and push a button. PulseTach™ does the rest. Immediately the sensitive photoelectric sensors scan the blood pulsing through the capillary bed in the fingertip. More than 5,600 powerful micro-circuits are precisely engineered to control, evaluate and process this pulse input. In seconds, the pulse rate displays in beats per minute on an extra large Liquid Crystal Display. The Cardiotachometer is precise enough to pick up slipped or irregular heartbeats. PulseTach™ focuses advanced microelectronics on human physiology.

pmi

Prime Microelectronic Instruments, Inc.



COMPUTER CHESS

Designed by a World Class Chess Master, four skill levels take competition from novice to highly experienced!

Moves are made electronically! If your game strategy fails, you can take back up to three moves. Ask the computer for help on your next move. Computer Chess can help you sharpen your game and improve your playing ability. Play against an opponent... Play against the computer... Or watch as the computer matches wits against itself. Use the special option to set up selected moves... mating threats, checks, or practice your attacking and retreating tactics. You can even save your unfinished game—for up to several days. It's the perfect game for the chess addict!

\$79.95 Order No. MAT1992
Shipping Wt. 1 lb.

WORLD CHAMPIONSHIP BASEBALL

World Championship™ Baseball is action and strategy on the diamond so real you think you're on the field! You'll select a 9-man Batting Order from a team roster of 15 players. Each has individual strengths and weaknesses—RBIs, Stolen Bases, Throwing Arm, etc. Pick a lineup and juggle it. Pinch hit for power.

You get six pitches to work with—fast balls, slow balls, curves and combinations. Balls, strikes & outs are automatically displayed. Four playing speeds. You vs. electronic superstars. Or you against another baseball enthusiast.

\$69.95 Order No. MAT3201
Shipping Wt. 1 lb.



Searching for Gift Ideas? Mattel Electronic Games Is Your Answer.

WORLD CHAMPIONSHIP FOOTBALL

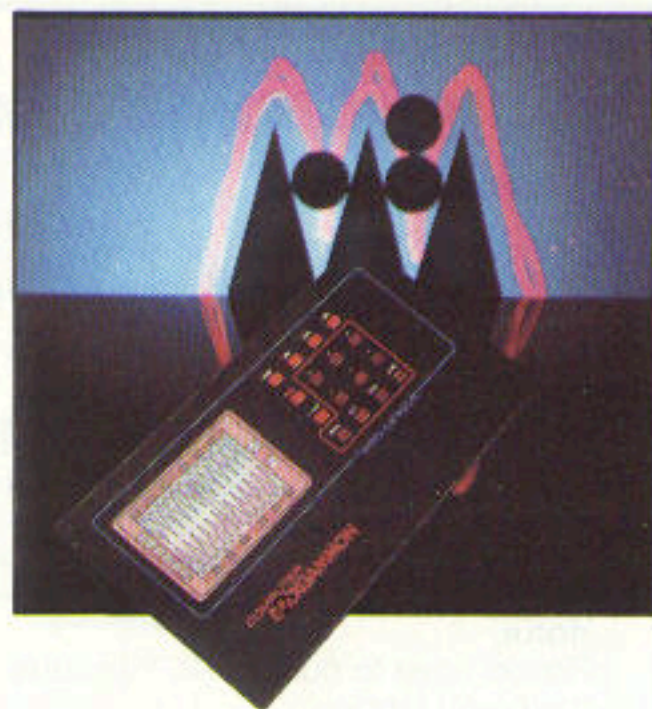
World Championship™ Football is fast-paced grid-iron action, so real you'll think you're on the field.

You're the quarterback on a 5 member offensive team. Choose from five formations. Call an unlimited number of plays, including options. Finesse defense out of position. Throw the bomb! Or run it in for a touch-down! Punts, field goals and onside kicks are part of the action.

See 5 yards of the regulation 100 yard field at a time. Hear a "charge" tune at kick-off and after a touch-down! Hustle through play calling when the 30-second clock begins to count down. If the clock runs out, it's an automatic 5 yard penalty.

Play against another football enthusiast, or play solo against the electronic superstars. Four different speeds. Separate controls for each team!

\$69.95 Order No. MAT3202
Shipping Wt. 1 lb.



COMPUTER BACKGAMMON

The relentless opponent you can take anywhere! Liquid crystal display lets you see the game play indoors or outdoors. No loose pieces to get lost—it's all electronic! SIX challenging skill levels developed by a World Class player allow beginners or experts to play against the computer! The game features an electronic doubling cube. Optional dice control allows you a choice between the computer's random dice roll or your own roll. It's compact! It's fascinating!

\$79.95 Order No. MAT1777
Shipping Wt. 1 lb.

HORSE RACE ANALYZER

A sophisticated micro-computer that can help you analyze thoroughbred races, using key information from the Daily Racing Form. It takes you about 20 minutes to punch in the numbers for each race. The computer "prompts" you, so you won't forget anything, then gives you its ratings for the best 4 horses in the race!

This handheld device is packaged with an attractive leather-like case, scratch pad and pen. For recreational purposes only.

\$27.95 Order No. MAT1670
Shipping Wt. 1 lb.



THE #1 RATED TV SHOW IS NOW AN ELECTRONIC/BOARD GAME!



\$49.95

Order No. MAT3881
Shipping Wt. 1 lb.

"J.R."™ THE CORRUPT-COMPUTER

- "J.R."™ knows all and cheats to maintain control of the Ewing Empire.
- "J.R."™ knows where each player moves, how much property he owns, and his current power status.
- Players have to outwit "J.R."™ to usurp control of the Ewing Empire.



NEW!!!

DALLAS HAS CAPTURED THE FANTASY OF AMERICA

- "J.R."™ controls the Ewing Empire
- Players assume Ewing family character roles and try to usurp "J.R.'s"™ power
- Ruthless power plays and financial deals are based on player's manipulation of family, business and political strengths
- Blackmail information helps each player in extortion and company takeovers

DALLAS GAME INCLUDES:

- "J.R."™ the Corrupt-Computer
- Dallas Playing Board, 19-1/4"x19-1/4" 4 color
- 6 Character Playing Pieces
- 24 Ownership Certificates
- Instruction Sheet
- 24 Blackmail Cards
- 6 Character Event/Confrontation Cards
- Play Money
- 48 Company Markers



MATTEL BEST BUYS

Following are discontinued but still available Mattel games. All items are new and shipped in original Mattel packaging. Your warranty will be honored by Mattel only. Don't miss these extraordinary savings on exciting Mattel games. Quantities are limited.

ORDER NO.	DESCRIPTION	SUGG. RETAIL	YOUR COST	YOU SAVE	SHIPPING WT. (LBS.)
MAT2024	Handheld Football	34.95	14.95	20.00	1
MAT2437	Handheld Basketball	34.95	9.95	25.00	1
MAT2942	Handheld Baseball	34.95	14.95	20.00	1



\$49.95

Order No. MAT1991
Shipping Wt. 1 lb.

DUNGEONS & DRAGONS

Enter an electronic world of strategy and adventure, with Dungeons & Dragons' computer labyrinth game. Your goal — to find and steal the dragon's treasure. Make your way through the dungeon labyrinth on a touch-sensitive electronic board. Exciting electronic sound clues help you locate labyrinth walls, warn you when the dragon is awake and after you. Quickly now! Grab the treasure and get back to your secret room before the dragon gets you. Play alone against the dragon computer or take on the dragon and a rival warrior. Two skill levels to choose from. Electronic playing board even looks like a dragon.

Game includes electronic playing board, 4 diecast metal playing pieces (2 warriors, 1 dragon and treasure), 50 plastic wall pieces and playing instructions.



NEW!!!



INTELLIVISION™

Intelligent Television

The INTELLIVISION™ Intelligent Television System by Mattel Electronics is a revolutionary network of video hardware and software. Compatible with any color set, we believe it will dramatically alter traditional notions of home entertainment, education, and planning.

The Master Component: Video entertainment the whole family can enjoy

The heart of Intellivision is the Master Component. Presently utilizing 26 different game and learning cartridges, it provides a virtually endless variety of game play and involvement, offering a wide spectrum of color, sound and motion.

Lightweight and handsomely styled, the Master Component features a sophistication of game play that has set the industrial standard. The two hand controllers fit snugly into the top, keeping cables out of sight when not in use. Inside, a powerful 16 bit microprocessor provides a full range of sound effects, music, color and an extraordinarily high level of resolution. Each game cartridge comes with its own pre-printed overlays for easy game play. Objects on the screen can be maneuvered with accuracy in 16 different directions.

All of the entertainment networks encourage both physical and mental dexterity while bringing a totally unique game experience. Sports, strategy, children's learning, action and gaming.

The Keyboard Component: A Home Computer System

(Anticipated availability December 1981)

The Keyboard Component, when added to the Master component (each sold separately), transforms the systems into a practical and easy-to-use home computer. An assortment of pre-programmed material will be available to help the user with everything from financial management to physical conditioning and self-improvement.

All computer cassettes are programmed with both digital and audio capabilities. All programs are in English and none require any computer knowledge.

In addition to all of the software specially made for Intellivision, the new Basic Language Cartridge allows you to write your own programs. A simple, step-by-step manual takes you through the fundamentals of Basic computer language.

INTELLIVISION™

Growing Along With Your Family's Needs

ORDER NO.	DESCRIPTION	YOUR COST	SHIPPING WT. (LBS.)
HARDWARE			
MAT2609	INTELLIVISION, including Las Vegas Poker & Blackjack	249.95	9 lbs.
MAT11491	Keyboard Component	569.95	CALL
CARTRIDGES			
Sports Network			
MAT2614	Major League Baseball	27.95	1
MAT2610	NFL Football	27.95	1
MAT1113	Auto Racing	27.95	1
MAT1816	PGA Golf	27.95	1
MAT1814	Tennis	27.95	1
MAT1683	NASL Soccer	27.95	1
MAT1817	US Ski Team Skiing	27.95	1
MAT1114	NHL Hockey	27.95	1
MAT1819	Boxing NEW	27.95	1
MAT2615	NBA Basketball	27.95	1
MAT3333	PBA Bowling NEW	27.95	1
MAT3411	Motocross NEW	Available 1982	
Strategy Network			
MAT1120	Checkers	27.95	1
MAT1119	ABPA Backgammon	27.95	1
MAT3412	USCF Chess NEW	Available 1982	
MAT3410	Adventure NEW	27.95	1
Gaming Network			
MAT1118	Las Vegas Roulette	27.95	1
MAT1123	Horse Racing	27.95	1
MAT2611	Las Vegas Poker & Blackjack	27.95	1



PBA Bowling



Submarine Battle



Major League Baseball

ORDER NO.	DESCRIPTION	YOUR COST	SHIPPING WT. (LBS.)
Action Network			
MAT3605	Astroslash™ NEW	27.95	1
MAT3759	Space Armada™ NEW	27.95	1
MAT3758	Snafu NEW	27.95	1
MAT3408	Submarine Battle NEW	Available 1982	
MAT1818	Sea Battle	27.95	1
MAT2612	Space Battle	27.95	1
MAT3760	Arcade NEW	27.95	1
MAT1121	Armor Battle	27.95	1
Children's Learning Network			
MAT2613	Electric Company Math Fun	27.95	1
MAT1122	Electric Company Word Fun	27.95	1
KEYBOARD CASSETTES AND CARTRIDGES			
(Anticipated Availability December 1981)			
MAT1146	Jack LaLanne Physical Conditioning	39.95	1
MAT1147	Conversational French	52.95	1
MAT1851	Charcraft Stock Analysis	39.95	1
MAT3422	Super Football	39.95	1
MAT3275	Basic Language Cartridge	52.95	1
MAT3764*	Crosswords 1	19.95	1
MAT3892*	Crosswords 2	19.95	1
MAT3893*	Crosswords 3	19.95	1
MAT3419*	Family Budgeting	19.95	1
MAT3767*	Geography Challenge	19.95	1
MAT3762*	Spelling Challenge	19.95	1
*Must be used together with MAT3275 Basic Language Cartridge			
†Anticipated Availability December 1981 - CALL			



**DISK II FLOPPY DISK
SUBSYSTEM**
Dynamic and Versatile
Data Storage



MONITORS

APPLE II Computer holds a respected position in the large family of micro-computers. Its versatility lets it be used for almost any application. For example, it can do all of the accounting for a small business, manage your personal finances, help you design a new circuit board, educate your children, and keep you entertained. With the right programming (also known as software), the Apple can do almost anything.

Apple's built-in **BASIC** language (Applesoft Floating-Point BASIC in the Apple II Plus, Integer BASIC in the Apple II), makes it easy to create programs that do things for you. Color and sound capabilities keep your interest (and the kids' too), and 48K bytes internal memory capacity means your Apple can handle sophisticated business and scientific tasks.

PERIPHERALS

DISK II expands the capability of your Apple II through the use of flexible, or "floppy," disks for data storage. Extended data storage capacity, fast data retrieval speed, and random access to stored data—all of these, and more, are available through the Disk II Subsystem.

Disk II comes with or without controller card. It is packaged with the current version of DOS (Disk Operating System) and a complete manual. A minimum of 32K RAM is required to support Disk II.

DOS 3.3 allows you to store 143K bytes of information on each diskette, which equals approximately 85 typewritten pages.

A monitor connected to the Apple displays the computer's output in high quality text/high resolution graphics.

SANYO

Order Number	Description	YOUR COST	Ship wt (lbs.)
SY04509	9" BW Display	\$179.95	15
SY05012CX	12" BW Display	320.00	23
SY05112G	12" Green on Black Display	325.00	23
SY06013C	15" Full Color Display	499.00	38

TEXAS INSTRUMENTS

The Texas Instruments monitor will also connect to the Apple for full color graphics.

TIP4100	99/4 10" Full Color Display	399.95	26
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EPSON MX-80. It's not just another worked-over reshoot of last year's model. It's the top-of-the-line 80-column printer. It's new from the ground up. And it's the most revolutionary printer to hit the market since Epson invented small printers for the 1964 Olympics in Tokyo. Don't take our word for it, though. Compare. There simply isn't a better value in an 80-column printer. Period.

The MX-80 sports the world's first disposable print head. Now that's revolutionary, but that's only the beginning. The MX-80 also prints bidirectionally at 80 CPS with a logic seeking function to minimize print head travel time and maximize throughput. It prints 96 ASCII, 64 graphic and eight international characters in a tack-sharp 9x9 matrix. And it provides a user-defined choice of 40, 80, 66, or 132 columns and multiple type faces. The MX-80RT includes friction feed kit built-in. Revolutionary.

Options for the MX-80:

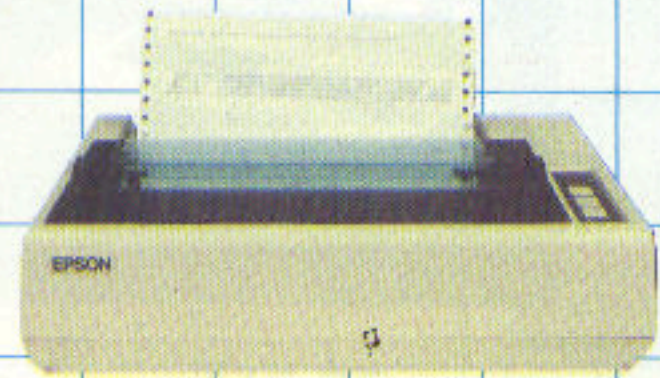
Order No.	Description
EPSPMX80KIT	Friction Feed Kit, permits usage of single sheets
EPSPMX80GR	Grafrax 80, gives MX-80 high resolution graphics capability

Epson expands MX line with 136-column MX-100 printer

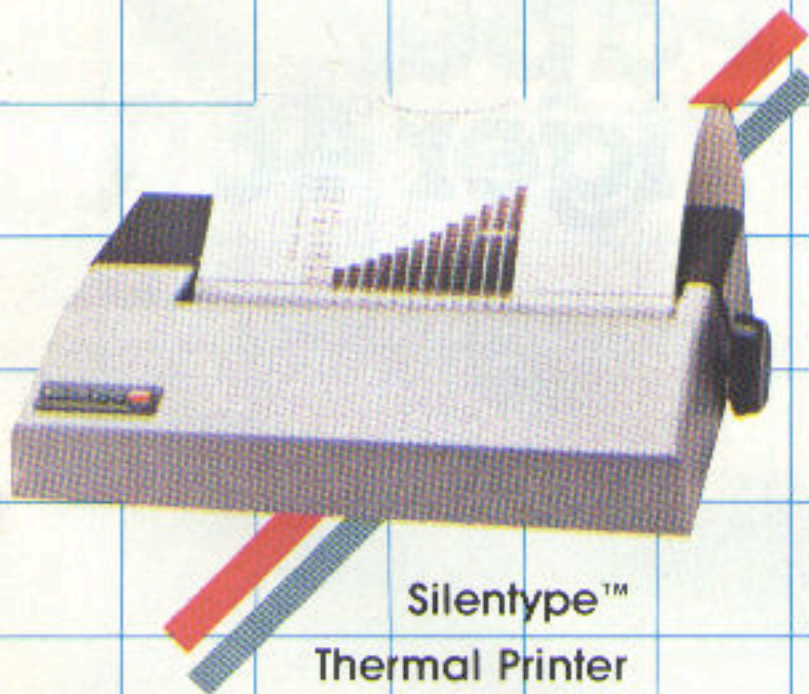
The first step up from the MX-80 is the MX-100. The MX-100 uses dot matrices ranging from 7x9 to 16x16 to generate correspondence-quality printing in a total of 12 different character weights and sizes. The new printer also features the firm's MicroLine disposable print head and GRAFRAX, a high resolution bit-image graphics capability, as standard features.

The printer accepts paper up to 15" wide and is capable of printing up to 253 columns of information in the condensed print mode. The printer works bidirectionally at 80 CPS, with a logic seeking function to minimize print head travel time and maximize throughput. It comes standard with both a friction paper platen and adjustable tractors or a removable tractor mechanism.

EPSON — The Word is Getting Around.



EPSON MX-100



**Silentype™
Thermal Printer**

Silentype is a quiet, versatile, and compact thermal graphics printer. It offers increased flexibility over other printers in its class because it receives both its power and intelligence from your Apple computer. With a few simple keystrokes, you can change margins and line spacing, specify printing intensity, even print finely detailed charts and graphs. It's the right choice for clear, readable, draft-quality hardcopy.

The Silentype is packaged with its own interface card, a roll of heat-sensitive paper, and manual. A minimum of 16K RAM is required to support the Silentype.™

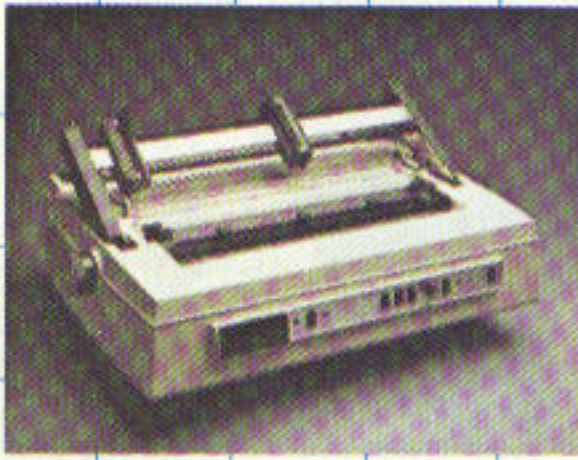
SILENTYPE™ Thermal Printer
Order No. APLA2M0036



apple computer

COMPUTIQUE is an Authorized Dealer
and Level One Service Center.

QUME Sprint 5



QUME SPRINT 5 offers letter quality printing and graphics with fully interchangeable daisy wheel print fonts. It features 132-column RS-232C Serial interface and 45 characters per second.

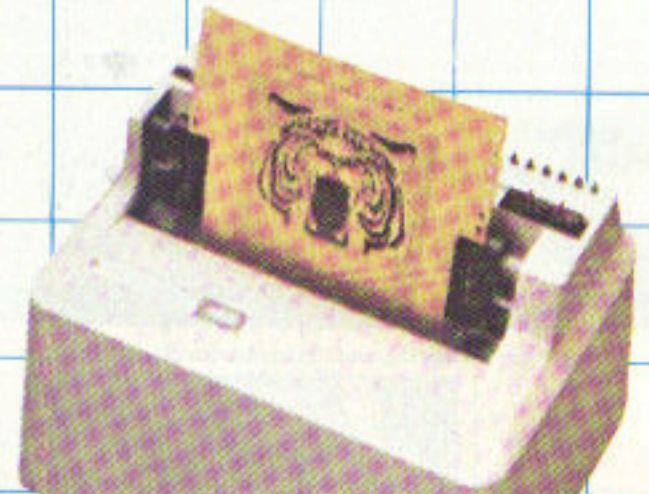
Order No.	Description
QUMESP5	Sprint 5 letter quality printer
QUMESPT	Bidirectional tractor

PAPER TIGER
Introducing quality print
at matrix speed and price.

UNTIL NOW, you could pay thousands for a slow letter-quality character printer. Or hundreds for a dot matrix printer, giving up print quality for speed and price. But that was before Paper Tiger... offered you a better choice.

The **Paper Tiger 460** is the first matrix printer with high-density dot matrix characters plus high speed. At a low price. The secret? A unique nine-wire, staggered matrix head provides overlapping dots in both horizontal and vertical planes. The result is dense, high-quality characters. Plus such features as bi-directional, logic seeking printing at speeds in excess of 150 CPS, proportional spacing, automatic text justification and DotPlot™ high-resolution graphics option.

But its most important feature is high reliability. Paper Tiger is designed to be tough and dependable. It has rugged stepper-motor head and paper drives. A new rugged ballistic-type print head. And its simple, chassis-mounted cartridge ribbon lasts up to 4 times longer than cassette or spool ribbons.



**Paper
Tiger 460**

**Meet the Tiger
with a bigger bite.**

INTRODUCING the remarkable 132-column **Paper Tiger 560**. The first full-width matrix printer to give you fully formed characters for as low as \$1399. Need more stripes? DoPlot™, the high-resolution raster graphics package, is standard on every 560. For data processing, word processing and small business applications, this is your Tiger. The business-sized Paper Tiger™ 560.



**Paper
Tiger 560**

 **apple computer**
COMPUTIQUE is an Authorized Dealer
and Level One Service Center.

ACCESSORIES

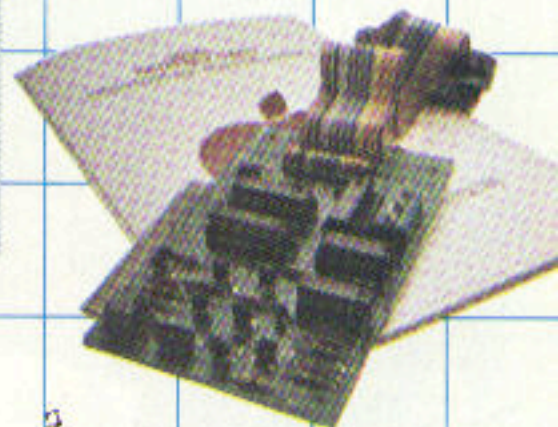
INTERFACE CARDS Intelligent Interfaces to Expand Your Apple System

Serial Card (Order No. APLA2B0005) allows an Apple computer to exchange data with computers, printers, and other devices in serial format (one bit at a time). It is intended for use (in place of the Communications Interface Card) in applications that use data rates other than 110 or 300 baud, and that involve serial printers that don't require "handshake."

The Communications Card (Order No. APLA2B0003) allows you to connect an Apple to modems, CRT terminals, and other devices employing a serial RS-232C interface. The card's built-in intelligence lets you control these devices easily, in BASIC.

The Parallel Card (Order No. APLA2B0002) lets you generate reports, listings, labels, and letters with your Apple, using a variety of parallel interfaced printers.

The Centronics Card (Order No. APLA2B0002), a special version of the Parallel Interface Card, is available for use specifically with the Centronics 779 printer.



D.C. HAYES MICROMODEM II

DC. Hayes Micromodem II (Order No. DCHMODEMII) lets your Apple communicate with a world full of other computers by using the telephone lines to send and receive data. It plugs directly into the phone line so there is no need to mess with sloppy acoustic couplers. And because it plugs directly into the phone line, it can automatically dial and answer the telephone. For electronic mail, connecting to a mainframe, or any type of data communication, the D.C. Hayes Micromodem is unsurpassable.

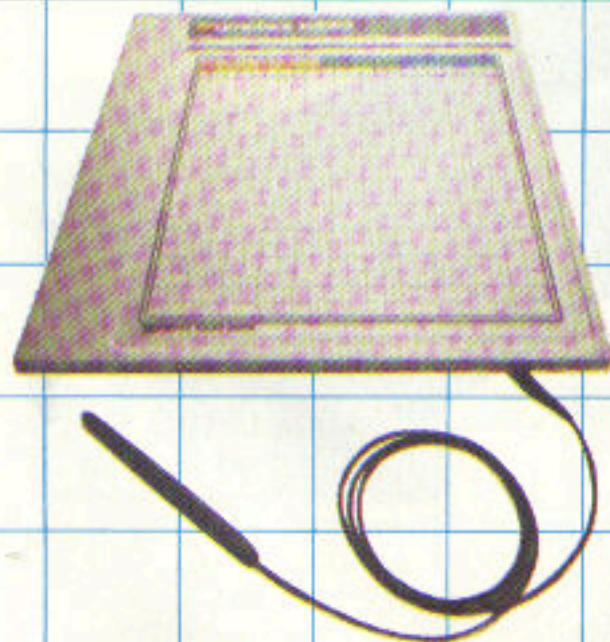
SOFTCARD* SOLUTION BASIC-80 CP/M Z-80

Turn your Apple into the world's most versatile personal computer. **The SoftCard* Solution (Order No. MSFZ80)** turns your Apple into two computers. A Z-80 and a 6502. By adding a Z-80 microprocessor and CP/M to your Apple, SoftCard* turns your Apple into a CP/M-based machine. That means you can access the single largest body of microcomputer software in existence. Two computers in one. And the advantages of both.

GRAPHICS TABLET

Graphics Tablet (Order No. APLA2M0029) is an image input device that allows you to enter pictorial information directly (by sketching or tracing). Powerful software provides a comprehensive set of menu-selectable functions.

It is packaged with its own interface card, connecting cable and stylus, control firmware in ROM, and software programs on diskette. It requires 48K RAM, Applesoft BASIC, and one disk drive.



THE APPLE LANGUAGE SYSTEM

This system provides apple users with the powerful Pascal language, as well as the Integer and Applesoft BASIC interpreters. It does this by means of the Language Card (Order No. APLA2B0043) which provides 16K of RAM memory that electrically replace the ROM firmware built into each Apple. This technique gives Apple II owners access to all available languages, as well as the hardware needed to run future language processors as they appear.

The Apple Language System is packaged with the Language Card, Pascal and BASIC diskettes, and manuals. It requires 48K RAM and one disk drive.

The Language Card is available without Pascal. Fortran can also be implemented on Language Card.

Apple **PASCAL** is one of the most sophisticated, structured programming languages available on a small computer. Its advanced capabilities boost program performance and cut software development time for large business, scientific, and educational applications. Pascal is packaged with the Apple Language System. It requires 48K RAM (giving the system 64K after Language Card installation), and one disk drive (up to six drives are supported).

FORTRAN is a powerful programming language for mathematics, engineering, and scientific applications. Apple FORTRAN is the ANSI Standard Subset of the recently defined FORTRAN 77, with many enhanced features and capabilities. The package is supplied and documented for those who are already familiar with the FORTRAN language, so that they may develop, modify, and use FORTRAN programs on Apple II.

Apple **FORTRAN** is packaged with a manual and program diskettes, and requires 48K RAM, Apple Language System (which increases RAM to 64K). Two drives are recommended.



APPLESOFT FIRMWARE CARD (Order No. APLA2B0009)

This card provides access to a library of programs written in the Applesoft BASIC language. It contains hardware and software controls that allow it to electrically replace the existing Integer BASIC firmware in Apple II computers.

Order No.	Description
APLA2B0006	Language System with Pascal
APLA2B0043	Language Card alone
APLA2D0032	Fortran Language

INTEGER BASIC FIRMWARE CARD (Order No. APLA2B0010)

This card provides access to a library of programs written in the Integer BASIC language. It contains hardware and software controls that allow it to electrically replace the existing Applesoft BASIC firmware in Apple II Plus computers.



WORK SMARTER NOT HARDER

APPLE and more than 170 other companies offer programs for use with your system — whether you're looking for help with accounts receivable records, sales forecasting or budget planning, commodities trading, or engineering models. And just as important — you'll find the documentation you need to get started quickly, even if you've never used a computer.

VISICALC™ and a personal computer do to the calculator, paper and pen what word processing has done to the typewriter and paper. Revolutionize it.

With VisiCalc™ you work with an electronic worksheet of up to 63 columns and 254 rows. At the juncture of any column and row you can type in words or numbers. To put VisiCalc™ to work you first create any format or form you need. Then, where you want the worksheet to perform a calculation, you type a formula. VisiCalc™ automatically performs all arithmetic functions. Instantly — and we mean instantly — VisiCalc™ displays the results. And if you change any of the numerical data, the electronic worksheet instantly displays a new result. Automatically. You can play "what if" as often as you wish to solve thousands of different problems. When finished, you can get a copy of all the information on your worksheet from your computer printer.

VISICALC Order No. PSVISICALC

DESKTOP PLAN II™ will automate and speed up your financial and business planning. This software is a highly organized financial planning, budgeting and analysis package that guides you from the original layout of our financial model through computerized calculations to the final printout of a boardroom-quality report.

Your analysis is even more useful because Desktop/PLAN II™ features high resolution line charts and bar graphs plus the ability to receive data from the Personal Software™ VisiCalc™ program. File management has never been easier.

DESKTOP PLAN II Order No. PSPLANII

VISIFILE™ makes information management by computer a cinch to learn and use. You are led step-by-step by its on-screen "moving cursor" prompts, the friendliest interface available. With the fewest possible keystrokes VisiFile stores, searches, locates, prints reports and mailing labels, and with its exclusive FlexFormat feature, it adds the capability to easily change files as your information needs change.

VISIFILE Order No. PSVISIFILE

VISITERM™ enables you to use a personal computer to communicate with larger computers, to tap into data networks, to communicate with other personal computers.

VISITERM Order No. PSVISITERM

VISIDEX™ What VisiCalc™ is to numbers, VisiDex™ is to ideas. This program makes it a snap for users to remember anything, and everything they don't want to forget. It's a totally unrestricted, non-structured filing system, with an limited cross-referencing.

VISIDEX Order No. PSVISIDEX

VISIPILOT™ programming makes it fast and easy to create those fantastic charts and graphs that make everything clear. It adds a new visual dimension to your financial analysis, forecasting, budgeting and business planning.

VISIPILOT Order No. PSVISIPILOT

VISITREND/VISIPILOT™ enables the knowledgeable user to rapidly perform regressions and time-series analysis, sophisticated trend forecasting and statistical analysis, plus providing comprehensive charting and graphing capabilities.

VISITREND/VISIPILOT Order No. PSTRENDPLOT



DESCRIPTION	Q1	Q2	Q3	Q4
SALES	10000	11000	12000	13000
MATERIAL COST	2000	2200	2400	2600
LABOR COST	3000	3300	3600	3900
FACTORY OVERHEAD-FIXED	4000	4000	4000	4000
FACTORY OVERHEAD-VARIABLE	5000	5500	6000	6500
TOTAL COST OF GOODS SOLD	14000	15000	16000	17000
NET SALES	8600	8800	9000	9400

APPLE POST is a complete mailing list maintenance program with up to 500 names per diskette. Package includes manual, program diskette and requires 48K RAM, 2-6 disk drives, and Applesoft BASIC language. **Order No. APLA2D0013**

The **CONTROLLER** handles the business functions of general ledger, accounts payable and accounts receivable automatically. Package includes binder with manual and diskettes. It requires 48K RAM, dual disk drives, Applesoft BASIC language. **Order No. APLA2D0012**

APPLE MUSIC THEORY teaches you to read music by displaying the notes as they are played. **Order No. APLA2D0038**

LANDLORD™ With the Landlord™ apartment management software and Apple II™, clerical work for your apartment can be accomplished with greater accuracy in a fraction of the time you presently spend. The Landlord™ will keep up-to-date files on apartments and residents as well as detailed records of property income and expenses. **Order No. MINILANDLORD**

DOS TOOL KIT aids the programmer in machine language, Applesoft, and graphics animation. It requires 48K RAM and one disk drive. **Order No. APLA2D0029**



APPLE WRITER™ allows you to create and edit a complete document before it is printed so you can get perfect output every time. It is packaged with a manual and program diskette and requires 48K RAM and one disk drive. **Order No. APLA2D0026**

APPLE PLOT™ lets you view any information into dramatic, comprehensive bar, line, or scatter charts. It is packaged with manual and program diskette, and requires 48K RAM, Applesoft BASIC language and one disk drive. **Order No. APLA2D0033**

DOW JONES NEWS & QUOTES REPORTER puts the past three months worth of stock information at your disposal. It requires 48K RAM, one disk drive, modem, and interface. **Order No. APLA2D0030**

DOW JONES SERIES PORTFOLIO EVALUATOR will store and maintain up to 50 portfolios per diskette, analyzing each for short and long term gains and losses, and current values. Package includes manual, program diskette, and Dow Jones News Retrieval Directory. It requires 32K RAM, Applesoft BASIC language and one disk drive. **Order No. APLA2D0007**

MICRO-COURIER™ For the first time, you can move just about anything in your Apple II™ computer to any other Apple II™ anywhere in the world. Micro-Courier™ allows you to electronically mail charts, graphs, correspondence, VisiCalc™ reports and entire programs. 48K, 1-2 disk drives, Applesoft required. **Order No. MICROCOM**

ELEMENTARY, MY DEAR APPLE helps strengthen spelling, mathematical and problem solving skills in children 12 and older. 48K RAM and one disk drive required. **Order No. APLA2D0015**

APPLE HOW TO! helps to teach the basics of computers. 48K RAM and one disk drive required. **Order No. APLA2D0016**

SHELL GAMES are some entertaining educational programs useful at school or at home. **Order No. APLA2D0014**

APPLE PILOT lets you design educational software to fit your particular student's needs. 48K RAM and one disk drive required. **Order No. APLA2D0028**

APPLE ADVENTURE challenges your skill as you explore the Colossa Cave finding both treasure and danger. 48K RAM, one disk drive, and Applesoft required. **Order No. APLA2D0034**

STELLAR INVADERS. You must use your weaponry to defeat all of the aliens before they land and destroy you. 48K RAM, one disk drive, and Applesoft required. **Order No. APLA2D0031**

APPLE BOWL is a realistic simulation of a bowling alley in which you control the ball, and Apple keeps score. 48K one disk drive, and Integer required. **Order No. APLA2D0018**

BPI payroll, this new System can be used by all types of businesses. Companies with as few as 4 employees or companies with many employees in several states will benefit from this system. Tax tables for all 50 states, District of Columbia and Puerto Rico are computed automatically. Unique update service keeps tax tables current. Payroll checks and reports are printed automatically. 48K Apple II Plus or an Apple II with Applesoft Card, two 16 sector disk drives, a monitor and a printer required.

BPI's New Job Cost Accounting System works equally well for general contractors, sub-contractors, oil drilling or producing operations or any business requiring individual job costing. 48K Apple II Plus or Apple II with Applesoft Card, two 16 sector disk drives, a monitor, and printer required.

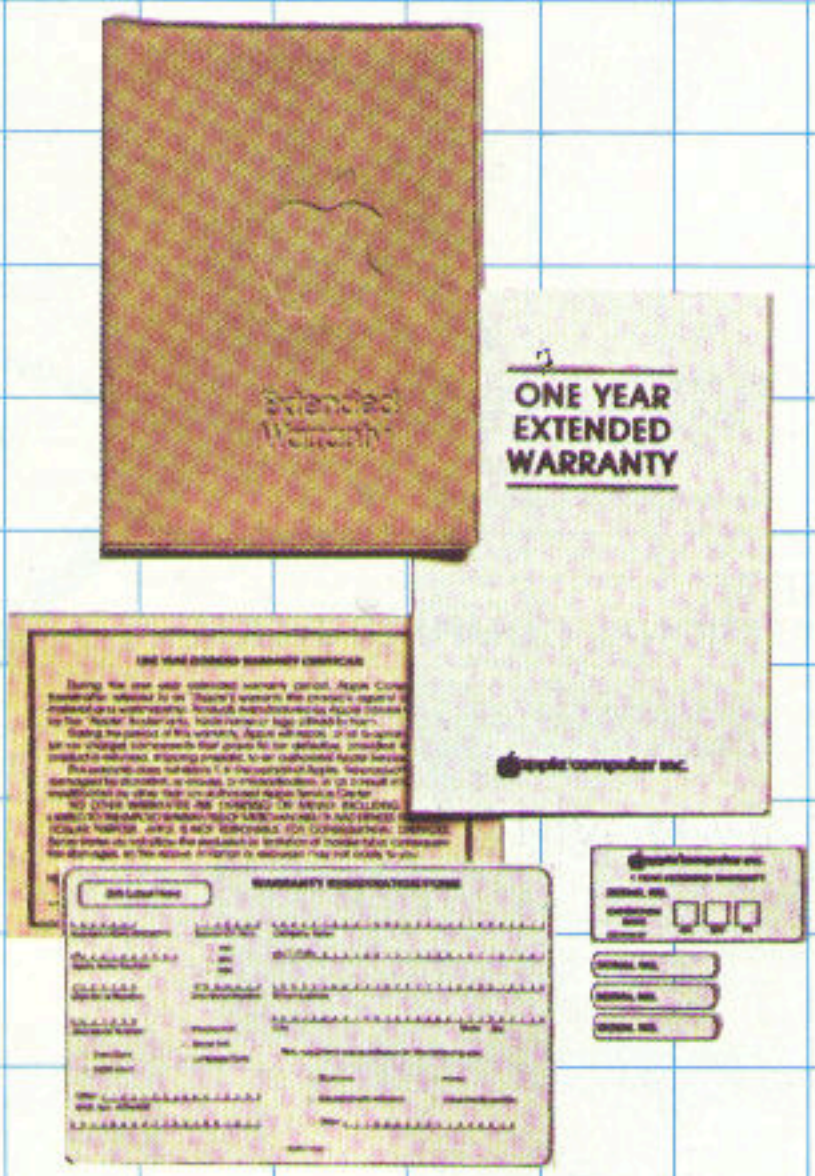
Order No. APLD2D0002 BPI A/Receivable
Order No. APLD2D0003 BPI General Ledger
Order No. APLD2D0023 BPI Inventory
Order No. APLD2D0035 BPI Payroll
Order No. APLD2D0036 BPI Job Costing



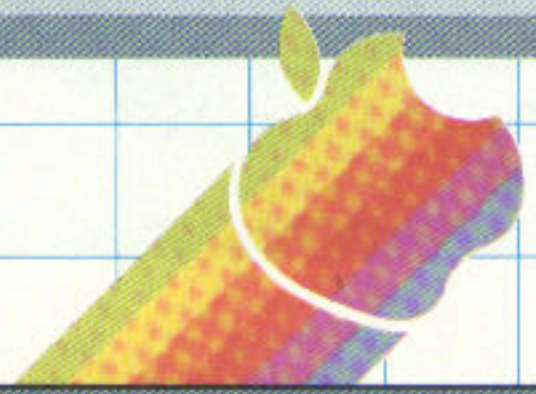
apple computer

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APLD200062	Computer Air Combat	59.95
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OCC 46-2	Apple II Users Guide	15.00
OCC 27-6	6502 Assembly Programming	16.99
OCC 34-9	Intro To Microcomputers	12.99
OCC 21-7	Z-80 Assembly Programming	16.99
OCC 68-3	Basic Programs-Apple II	14.99
PLEASE CALL FOR SHIPPING WEIGHTS		



apple computer
 COMPUTIQUE is an Authorized Dealer
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APPLE III PROFESSIONAL COMPUTER SYSTEM

The Apple III is a professional, desk-top computer system designed for sophisticated business application needs. Its outstanding, built-in hardware includes a 140K-byte Disk III drive, 96 or 128K bytes of user memory, a calculator-style numeric key pad, and two interfaces — serial RS-232C and Silentype Thermal Printer — for easy, economical system expansion. A 12-inch, high-resolution video monitor completes the system.

The Apple III is offered in specific configurations to meet your requirements.

APPLE III INFORMATION ANALYST

The Apple III Information Analyst is a powerful modeling, problem-solving, and forecasting tool. Its easy-to-use VisCalc™ III and Business BASIC software packages allow you to handle the most complex tasks more quickly, accurately, and thoroughly than ever before.

Any business problem you might wish to tackle using rows and columns can be solved with VisCalc III, a huge "electronic worksheet" with enough room for a detailed, five-year forecast. It virtually eliminates calculator, pencil, and paper in developing plans and analyzing results.

Business BASIC, with up to 70K bytes (on a 128K system) of user memory (the largest workspace available on any personal computer), allows you to write programs to meet your needs. Its special, 18-digit (64-bit) data type lets you handle even the toughest accounting chores with "penny accuracy."

The Information Analyst's built-in disk drive lets you store and quickly retrieve up to 140K bytes of data per diskette.

APPLE III HARDWARE

DISK III

Disk III is a floppy disk drive subsystem that allows you to increase the disk storage capacity of your Apple III up to 560K bytes (4 drives). As your needs expand, you can daisy-chain as many as three Disk IIIs to your system — without adding any control hardware or software.

UNIVERSAL PARALLEL INTERFACE CARD

The Universal Parallel Interface (UPI) Card lets a variety of parallel-mode printers — including most dot matrix models, plus some thermal and daisy wheel units — attach to Apple III computer systems. The UPI Card also emulates the Centronics and the Parallel Printer Interface Cards used with the Apple II.

APPLE III PRICE LIST

ORDER NUMBER	PLEASE CALL FOR SHIPPING WEIGHTS DESCRIPTION	YOUR COST
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APLA3G0003	Extended Warranty	595.00
APLA3B0001	Prototyping Card	45.00
APLA3M0001	Silentype Printer II	350.00
APLA3M0003	Disk II for Apple II	545.00
APLA3M0006	Monitor III (12" B&W)	320.00
APLA3M0009	Monitor III (12" Green)	320.00
APLA3M0009	Carry Case for Apple III	75.00
APLA3M0013	Silentype Conversion	35.00
APLA3D0005	Apple III Pascal	250.00
APLA3L0003	Pascal Programmers Manual	30.00
APLA3L0004	Pascal Introduction	20.00
APLA3L0005	Pascal Program Preparing	20.00

THE LAST ONE[®]

THE LAST ONE. WHAT DOES IT DO?

Generally, The Last One converts a program outline in the form of a 'flowchart' into error-free BASIC code.

Specifically, you input your program description into The Last One. The description is entered step by step with english-like phrases. These phrases range from simple input and output to very powerful disk storage, retrieval, and manipulation commands. Every aspect of BASIC is covered. Even commands that are unique to your particular microcomputer can be implemented with The Last One.

After your flowchart is entered, The Last One asks you some straight-forward questions to help clarify exactly what you want your program to do. Then your work is done. The Last one takes all the data you give it and writes a completely bug-free program that does exactly what you wanted.

The Last One. Who is it for? Because you need not have any experience in computer programming to use The Last One, almost everybody can benefit from The Last One. For the businessman The Last One will give you the ability to create custom programs designed to handle your particular business needs. For the programmer The Last One will speed up your normal programming time because you don't need to spend any time on debugging your program. For teachers, engineers, scientists, and other computer users, The Last One will help you create the programs that you could spend many days or many dollars developing on your own.

The Last One. What are some of its features? The Last One includes many things that enhance its usability. If you want to modify a program written with The Last One, simply call up its flowchart and make the revisions. The Last One will do the rest of the work. To Transfer a program to another machine, simply enter the exact same flowchart into The Last One of the new machine and a program that runs identical with the original will be created. Programs can be merged, linked, or otherwise related to each other by simply referring to their flowcharts.

Overall, The Last One lets the microcomputer user with little or no programming experience write powerful, useful programs that do the job they were designed to do!

THE LAST ONE is available for use on Disk-based Pet, Apole, Tandy, Ohio Scientific, Sharp, and CP/M systems. Versions for other machines are currently under development.



Reprinted from Personal Computer World Europe's Leading Micro Magazine February 1991

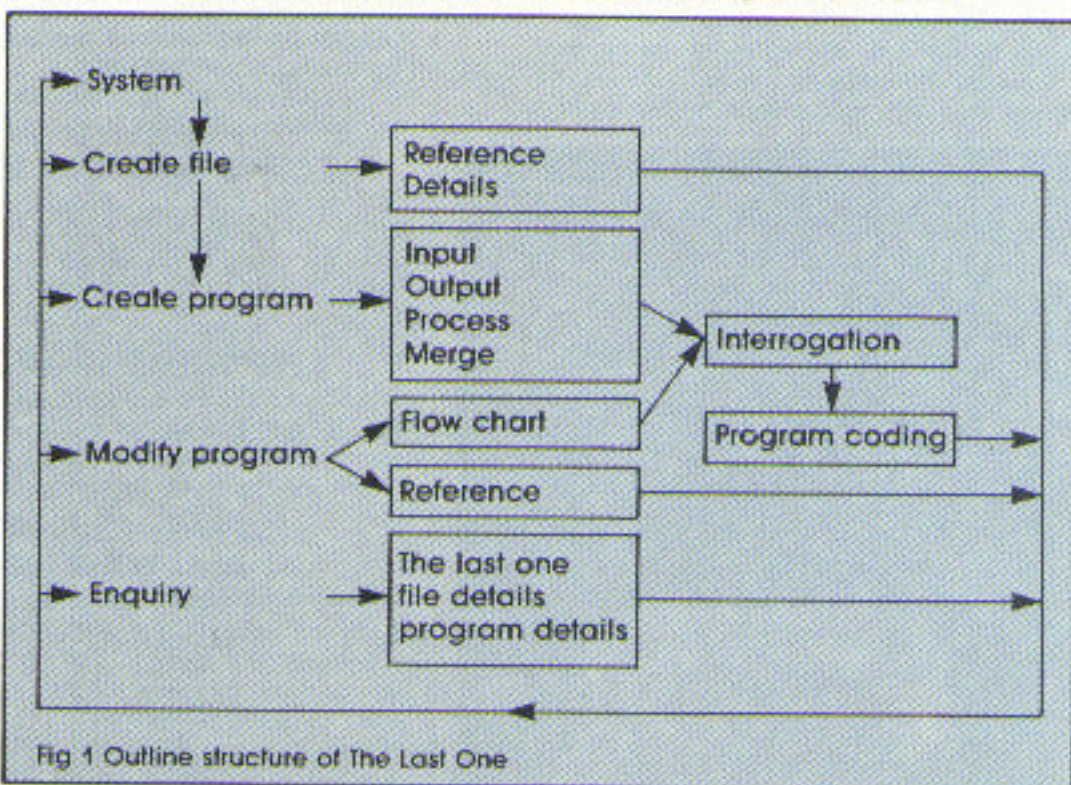
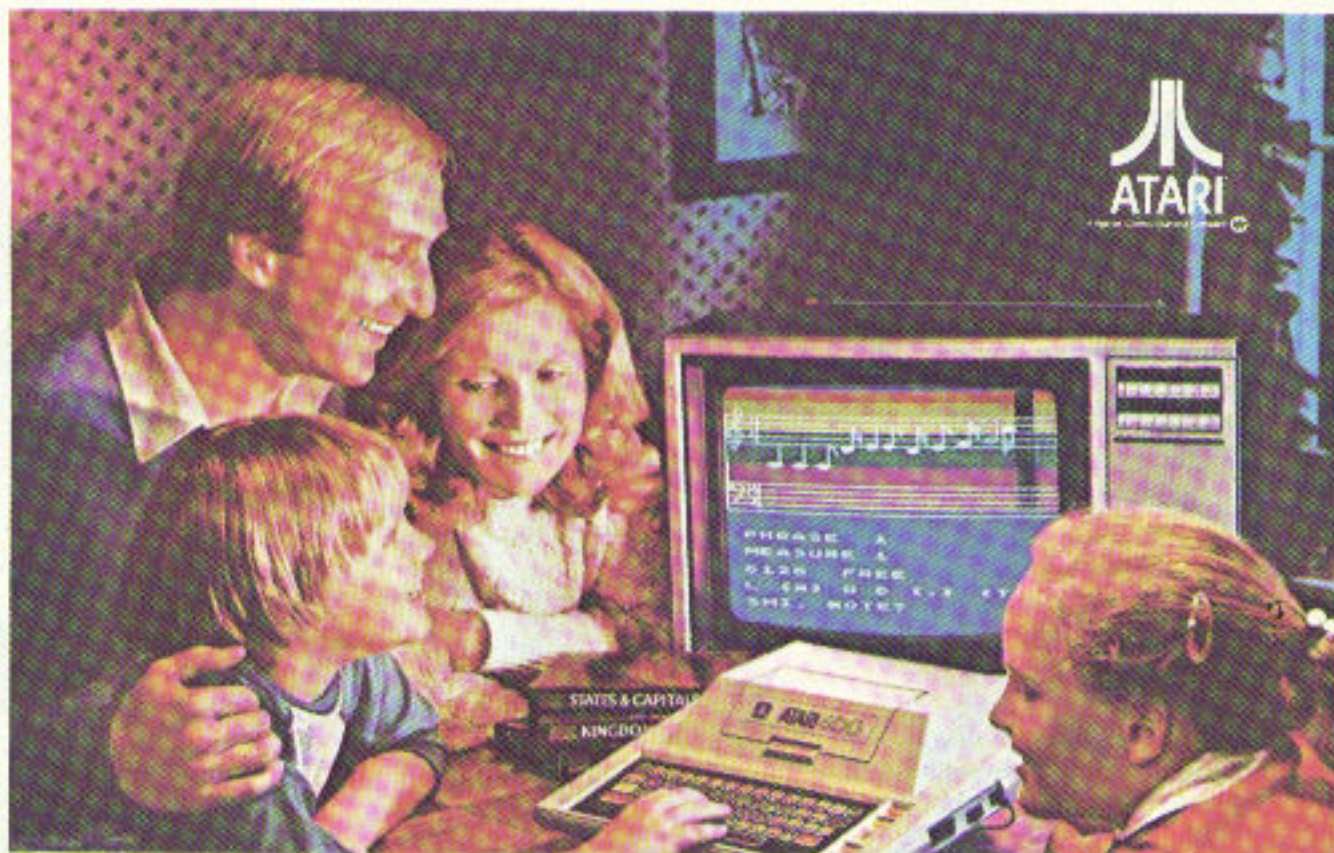


Fig 1 Outline structure of The Last One

- 1 Open files 1 - 2
- 2 Jump to end of file 2
- 3 Set Index to start of file 1
- 4 Console input using labels from file 2
- 5 Ask user 'Is this data correct?' if no jump
- 6 Search file 1 for data
- 7 Maths with files 1 - 2
- 8 Write to files 1 - 2
- 9 Ask user 'again'. If yes jump
- 10 Write 'end' to appended file number 2
- 11 Terminate program

Fig 2 A simple 'flowchart'

\$600
THE LAST ONE



ATARI BRINGS THE COMPUTER AGE HOME.

ATARI® HOME COMPUTERS BRING A WORLD OF INFORMATION, EDUCATION AND ENTERTAINMENT INTO YOUR LIVING ROOM.

Imagine, you press a few buttons and suddenly you're creating beautiful music. Or learning conversational French. Or evaluating your investment portfolio.

Futuristic? Sure, but it's here today with the ATARI Home Computer—the personal computer that brings space-age technology down to earth.

The ATARI Home Computer is designed to be so simple that when you plug it in and use one of



ATARI 400

our programs, it's ready to go. But it's so brilliant, it can do a world of wonderful things for you.

EXHILARATING ENTERTAINMENT.

The excitement is electric when you challenge the ATARI computer to a fast-moving, fast-thinking space battle with Space Invaders,* Missile Command,** or Asteroids.**

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Learn everything from languages to world history, all at your own pace, from a teacher that never gets tired or impatient.

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Press your phone into our telephone linkup and you can tap into almost limitless sources of information: News services, weather reports, airline schedules, the Stock Exchange, and much more.

EXPAND YOUR WORLD AND YOUR MIND.

Find out if today's a good day for an important decision by charting your biorhythm.

Or develop a deeper understanding of nuclear energy issues as you simulate the fascinating workings of a power plant.

Learn to invent your own games, create your own music and art, make your own experiments and discoveries.

ATARI Home Computers take you as far as your imagination can go.

THE FRIENDLIEST COMPUTERS IN THE WORLD.

The ATARI 400™ Home Computer is the perfect

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ATARI 800



way to enter the computer age. It's surprisingly affordable, amazingly easy to use, and extremely versatile.

The ATARI 800™ Home Computer is for more advanced applications, including business and science. But it's every bit as simple as the ATARI 400™ Computer.

And both grow with you because you can add many new programs and a variety of accessories.

ATARI® PERSONAL COMPUTER EQUIPMENT

ATARI PERSONAL COMPUTERS

The electronic structure of the ATARI 400™ and ATARI 800™ computers is basically the same. Included with each are the ATARI BASIC cartridge, ATARI BASIC Self-teaching Guide, ATARI BASIC Reference Manual, an operator's manual, TV Switch Box and AC Power Adapter. The two computers differ in only five ways: Random Access Memory (RAM) expandability; keyboard; dimensions; price; and the ATARI 800 provides a monitor jack which allows you to connect it to either a computer monitor or TV set. Price and memory expandability are the key considerations in determining which system best fits your present and future needs.

ATARI 400/800™ COMPUTER FEATURES

Computer Console: FCC approved, with built-in RF modulator. Connects to any TV (U.S.A.)

Color: Choose from 16 colors, each with 8 intensities.

Sound: Four independent sound synthesizers (in addition to audio through TV) for musical tones or game sounds. Four octaves, variable volume and tone. Internal speaker.

Display: Three text modes: 24 lines of 40 characters, double-width characters; or double-height, double-width characters. Six graphics modes: From 40 columns by 24 rows to 160 columns by 96 rows available with 8K of RAM up to 320 columns by 192 rows available with 16K of RAM.

Keyboard: 57 alphanumeric keys plus 4 special function keys. Upper/lower case. Inverse video. Full screen editing. Four-way cursor control, 29 graphics keys.

I/O: Serial input/output port for simple connection to peripherals. Four controller jacks for light pen, joystick, paddle and keyboard controllers.

Memory: Includes a built-in 10K Read Only Memory (ROM) Operating System. ROM may be expanded with user-installed cartridge programs.

Language: ATARI BASIC cartridge is included.

CPU: 6502 Microprocessor, 0.56 microsecond cycle, 1.8 MHz.

Power: AC transformer, UL approved, included, 120 VAC.

THE ATARI® 400™ PERSONAL COMPUTER

The ATARI 400 computer is very much at home in the classroom, kitchen, family room or den. Its monopanel keyboard is virtually child and spill-proof. Thus, it is a perfect learning or teaching tool. It can also form the basis of an inexpensive telecommunications system which allows you to communicate with other computers or access large data bases or services such as stock market quotations or electronic mail. It is the perfect computer for a beginning user. The ATARI 400 computer is available with either 8K or 16K bytes of Random Access Memory (RAM). The 8K model can be expanded to 16K at an authorized ATARI service center when you are ready for more computing power.

ATARI 400 COMPUTER FEATURES

- RAM: Two versions available — 8K or 16K bytes of RAM included. The 8K version may be expanded to 16K RAM at an authorized ATARI service center.



- Keyboard: Monopanel, pressure-sensitive, plastic keyboard.
- No monitor jack.
- Dimensions: 13-1/2" x 11-1/2" x 4-1/2", 5-3/4 lbs.

ATARI 400 COMPUTER APPLICATIONS

The ATARI 400 computer with 8K of RAM can be used in the following applications:

Personal Interest & Development

An Invitation to Programming™ 1, 2 & 3. Biohythm, Music Composer™.

Education:

ATARI Education System; Educational System Master Cartridge and Talk & Teach™ cassettes (16 subjects); Hangman, Kingdom™.

Information & Communications:

TeleLink™ 1.

Entertainment:

Asteroids™, Basketball, Blackjack, Computer Chess, Missile Command™, Star Raiders™, 3-D Tic-Tac-Toe, Video Easel™, Super Breakout™, Space Invaders™.

Programming Languages & Aids:

Basic Computing Language, Assembler Editor, PILOT™.

The following additional ATARI programs can be used with an ATARI 400 computer with 16K of RAM.

Personal Finance & Record Keeping: Mortgages & Loan Analysis.

Personal Interest & Development: Conversational French, German, Spanish and Italian, Touch Typing.

Education:

Energy Czar™, Scram™ (A Nuclear Power Plant Simulation), States & Capitals, European Countries & Capitals.

Professional Applications:

Graph II™, Statistics 1.

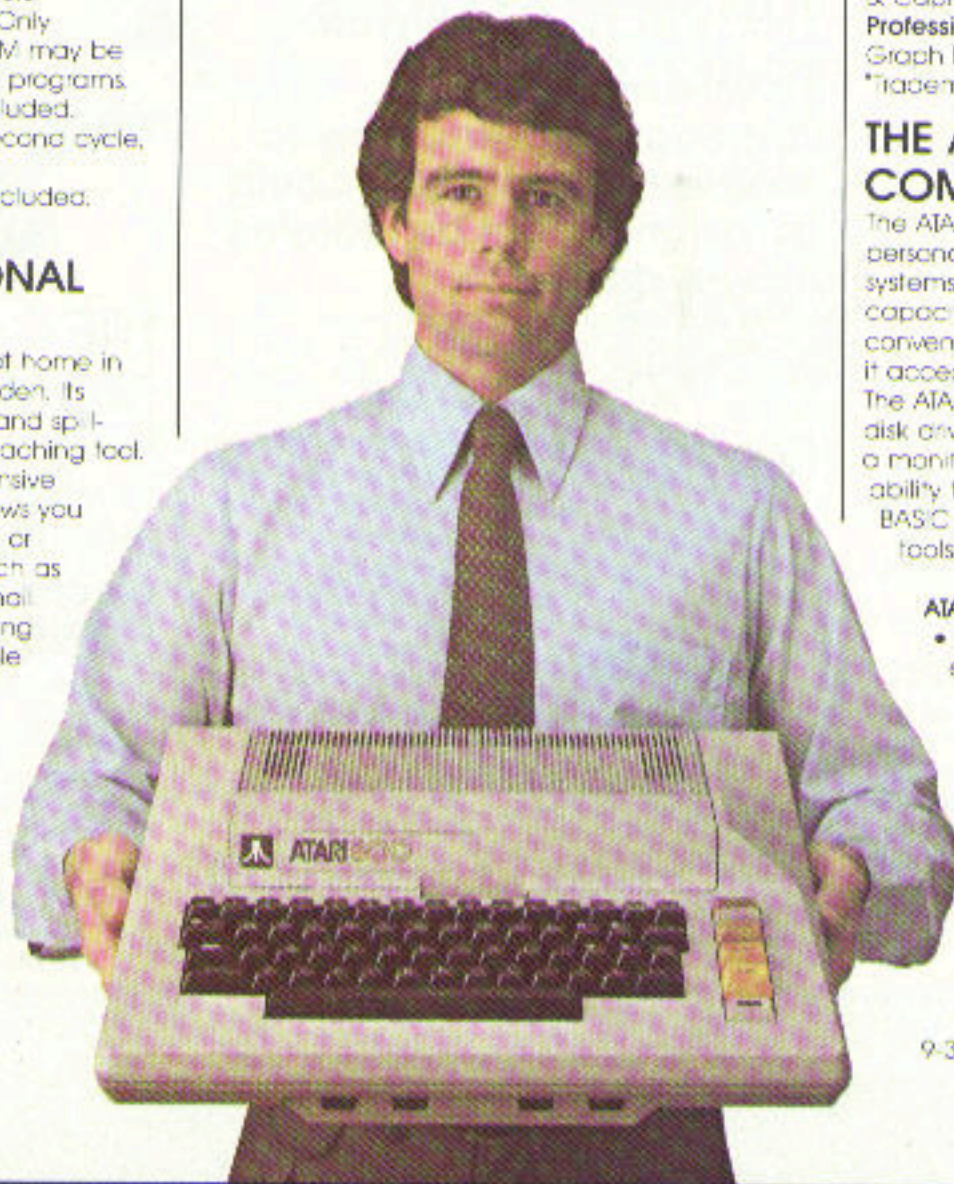
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THE ATARI® 800™ PERSONAL COMPUTER

The ATARI 800 forms the basis of advanced personal, business and professional computer systems. Its Random Access Memory (RAM) capacity may be easily expanded to 48K with convenient, slide-in Memory Modules™. In addition, it accepts all ATARI programs and peripherals. The ATARI 800 is capable of controlling up to four disk drives and a variety of printers. It also offers a monitor jack, typewriter-style keyboard and the ability to handle ATARI Microsoft BASIC, a powerful BASIC which provides additional programming tools and utilities.

ATARI 800 COMPUTER FEATURES

- RAM: 16K bytes of RAM included. May be expanded in 8K or 16K increments up to 48K RAM with user-installed Memory Modules.
- Keyboard: Full-stroke, typewriter-like keyboard which allows fast, easy data entry and interaction with the computer.
- Monitor jack allows composite video output for connection to a color or black-and-white monitor (in addition to connection to a standard television set).
- Dimensions: 16" x 12-1/2" x 4-1/4", 9-3/4 lbs.



WHAT AN ATARI PERSONAL COMPUTER CAN DO FOR YOU.

The ATARI Personal Computer along with the rapidly expanding ATARI program library can relieve you of the drudgery of dozens of routine and non-creative tasks — tasks that don't require judgment. In effect, ATARI computers can free you to use your own mind more creatively. The computer performs the routine tasks to present you with the information you need to make decisions, compare alternatives or increase your personal productivity. It also teaches, entertains and does things that you can't do. Here are a few examples:

Personal Finance and Record Keeping. ATARI's program library includes investment analysis programs for stock, bond and loan analysis, plus stock charting and a mailing list program for managing almost any list.

Personal Interest and Development. ATARI offers programs that teach foreign languages, touch typing, even computer programming. Music Composer™ allows you to play a tune on your computer...in four-part harmony. You can also print out your blarney!

Education. ATARI educational programs are available for all levels of learning. From Spelling for grammar school children to Basic Algebra, Physics, and Principles of Economics, plus learning simulations such as Kingdom™ and Saram™ (A Nuclear Power Plant Simulation).

Information and Communication. The TeleLink™ cartridge turns your ATARI Personal Computer into a remote terminal that gives you access to information stored in large computer data bases, such as airline schedules, stock quotes and the UPI Newswire, over regular telephone lines.

Entertainment. As the inventor of computer games, ATARI offers a full range of exciting, colorful games for ATARI Personal Computers. Among the most popular are Star Raiders™, Space Invaders™, Asteroids™, Missile Command™ and Computer Chess. New games are always under development.

Programming Languages. As your skill and familiarity with your ATARI Personal Computer increase, you may want to create your own programs. BASIC, PILOT and assembly language programming languages are available in slice-in cartridges.

USING THE ATARI PERSONAL COMPUTER IN BUSINESS.

ATARI provides powerful productivity tools for the small business and professional user.

The ATARI Word Processor. Word processing is a perfect example of the ATARI Personal Computer's ability to manage correspondence and reports. The Word Processor program allows writing, editing, formatting, transposition, insertion, deletion and addition of material to any text. The program will print out text or store it for later editing, all at a great saving in human time.

Calculator. With this program your ATARI Personal Computer becomes a powerful, 145-function programmable calculator. It's a particularly powerful and useful tool for engineering, scientific and professional users.



THE ENTERTAINER™ FROM ATARI

You can't beat these computer games. Even when you win.

Games on a computer. Rocket into hyperwarp to destroy the enemy in Star Raiders™. Enjoy the challenge of Computer Chess. Become a part of the world of fun and excitement when you use The Entertainer with The Basic Computer™ from ATARI.

\$89.95

Order No. ATCX481

THE ENTERTAINER™ KIT

Star Raiders™ Game Cartridge, Computer Chess Cartridge or Missile Command™ (subject to manufacturer's availability), Joysticks, one pair. The Basic Computer™ not included in The Entertainer™ kit.



THE EDUCATOR™ FROM ATARI

A lifetime educational system for your family, for about the price of a good color TV.

The Home Classroom. With The Educator™ kit, The Basic Computer™ can teach you French in your kitchen. It will let you simulate the government of an agricultural kingdom. You can learn how a nuclear power plant operates without leaving your house. You can add educational simulation programs that let you think of your computer as an electronic blackboard.

\$144.95

Order No. ATCX482

THE EDUCATOR™ KIT

ATARI BASIC Cartridge, ATARI 410™ Program Recorder, States & Capitals program cassette. The Basic Computer™ not included in The Educator™ kit.

THE PROGRAMMER™ FROM ATARI

Someday, knowing how to program a computer could be as important as learning how to drive.

Create your own games! Suppose you want to write your own computer games. The Programmer kit helps you write programs to do just that. Then The Basic Computer™ runs the programs in seconds.

\$69.95

Order No. ATCX483

THE PROGRAMMER™ KIT

The ATARI BASIC Self-Teaching Guide, The ATARI BASIC Reference Manual, The ATARI BASIC Computing Language. The Basic Computer™ not included in The Programmer™ kit.



THE COMMUNICATOR™ FROM ATARI

Bring a world of information to your living room, for less than the price of a good electric typewriter.

The world at your fingertips. Use The Communicator™ kit with The Basic Computer™ by ATARI and gain access to a world of information. Securities' prices and financial data from Dow Jones. News direct off the wires. Weather and sports reports. Libraries of information. All, over your home telephone line 24 hours a day. You can even send and receive electronic mail.

\$440.85

Order No. ATCX484

THE COMMUNICATOR™ KIT

ATARI 850™ Interface Module, ATARI 830™ Acoustic Modem, ATARI TeleLink™ 1 Cartridge. The Basic Computer™ not included in The Communicator™ kit.



THE ATARI™ PERSONAL COMPUTER SYSTEM

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ATCX400	Home Computer	\$ 399.00	\$339.95
ATCX800	Personal Computer	1080.00	899.95
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ATCX810	Disc Drive	699.95	549.95
ATCX825	80 Col Prtr	999.95	899.95
ATCX830	Acoustic Modem	199.95	179.95
ATCX850	Interface Mod.	219.95	199.95
ACCESSORIES			
ATCX104746	TV Switch Box	9.95	8.95
ATCXL4003	Assembler Debug	69.95	64.95

ATCX4109	Graph It	19.95	19.95
ATCX4110	Touch Typing	24.95	24.95
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ATCX4118	Conver. German	59.95	59.95
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ATCX4120	Conver. Spanish	59.95	59.95
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ATCX6003	Supervisory Skills	39.95	39.95
ATCX6004	World History	39.95	39.95
ATCX6005	Basic Sociology	39.95	39.95
ATCX6006	Counseling	39.95	39.95
ATCX6007	Princ. of Accounting	39.95	39.95
ATCX6008	Physics	39.95	39.95



ATCXL0114748	Power Adaptor	19.95	10.05
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ATCX410	Prog. Recorder	89.95	69.95
ATCX4115	Mortgage Loan	14.95	13.95
ATCX852	8K Mem. Mod.	90.00	90.00
ATCX853	16K Mem. Mod.	99.95	99.95
ATCX30	Paddle Controls	12.95	12.95
ATCX40	Joy Stick Controls	19.95	19.95
ATCX50	Keyboard Controls	19.95	19.95

SOFTWARE

ATCX404	Word Processor	149.95	149.95
ATCXL4004	Basketball	39.95	29.95
ATCXL4005	Video Easel	39.95	29.95
ATCXL4006	Super Breakout	39.95	39.95
ATCXL4007	Music Compzr	69.95	59.95
ATCXL4008	Super Bug	49.95	49.95
ATCXL4009	Chess	39.95	39.95
ATCXL401X	Tic Tac Toe	29.95	29.95
ATCXL4011	Star Raiders	49.95	49.95
ATCXL8001	Home Finance	69.95	69.95
ATCXVISICALC	Visicalc	199.95	199.95
ATCX4015	Teletink	24.95	24.95
ATCX4102	Kingdom	14.95	14.95
ATCX4013	Statistics	19.95	19.95
ATCX4104	Mailing List	19.95	19.95
ATCX4105	Black Jack Tape	14.95	14.95
ATCX4107	Biorhythm	14.95	14.95
ATCX4108	Hangman	14.95	14.95

ATCX6009	Great Classics	39.95	39.95
ATCX6010	Business Com.	39.95	39.95
ATCX6012	Effective Writing	39.95	39.95
ATCX6013	Auto Mechanics	39.95	39.95
ATCX6014	Princ. of Economics	39.95	39.95
ATCX6015	Spelling	39.95	39.95
ATCX6016	Basic Electricity	39.95	39.95
ATCX6017	Basic Algebra	39.95	39.95
ATCX8102	Calculator Disc	39.95	29.95
ATCX8103	Astrology	49.95	49.95
ATCX8106	Bond Analysis	24.95	24.95
ATCX8107	Stock Analysis	24.95	24.95
ATCX481	Entertainer Kit	109.95	99.95
ATCX482	Educator Kit	164.95	144.95
ATCX483	Programmer Kit	76.95	69.95
ATCX4101	Invite To Prog 1	19.95	19.95
ATCX4106	Invite To Prog 2	24.95	24.95
ATCX4002	Atari Basic	59.95	59.95
ATCX405	Pilot (w/Turtle Graph)	59.95	59.95
ATCX4121	Energy Czar	14.95	14.95
ATCX4114	Europ. Count. & Caps	14.95	14.95
ATCX4013	Asteroids	39.95	39.95
ATCX4012	Missile Command	39.95	39.95

LITERATURE

ATCX15200	Reference Manual	10.95	10.95
ATCX15307	Basic Ref. Manual	10.95	10.95
ATCX4101	Invite To Prog	19.95	19.95
ATCX14385	Atari Basic	5.95	5.95

Manage your business more effectively
with HP's personal office computer.

Introducing The HP125 Business Assistant

As the trend toward distributed data processing continues into the area of personal computing, business managers are demanding individual computers right on their desks for new kinds of applications — word processing, decision support and presentation aids.

Combining the talents of a computer with a financial calculator, a word processor, a graphic artist and a computer terminal to talk to a larger computer, the HP125 Business Assistant has just about everything you need to get your work done right at your desk.

Hewlett-Packard's newest business computer, the HP125, runs a fully HP-supported CP/M™ operating system. And five HP-supported software packages, in addition to a wealth of other inexpensive CP/M-compatible software, are available. Ideal not just for local processing, the HP125 can, at the press of a button, become a full-fledged remote terminal to an HP3000 EDP network, or to a large mainframe computer, through dual RS-232C data communications ports, at speeds up to 9600 baud. You can use it to draw data from the company's main computer, then run local "what-if?" analyses to envision the results of various operations. Or to quickly create 8-color graphs or slides and produce professional-quality memos.

It combines the power of a dedicated Z-80A system microprocessor and 64K bytes of system memory with the full capabilities of an interactive computer terminal with its own microprocessor-based intelligence. These capabilities are packaged in a compact, attractive desktop unit. A built-in 120 cps thermal printer is available as an option. Mass storage is modular and allows the user to configure the system to meet his particular storage requirements. Peripheral devices such as printers and graphics plotters can also be added. Modularity allows the HP125 to grow in capability as users' needs increase.



The HP125 Model 10

The HP125 Model 10 uses dual 5-1/4" flexible disc drives to provide approximately 512K Bytes of on-line storage. The small flexible discs store information in a high density format. Large amounts of information can be retained on- and off-line on low-cost media. The high performance and reliability of the disc drives let you store program and data files with confidence. Long flexible disc life reduces data storage costs.



The HP125 Model 20

The HP125 Model 20 provides 2.32 million bytes of formatted mass storage on dual 8" flexible disc drives. The built-in controller can recognize if the flexible disc has been recorded on one or two sides. The controller also reads and writes the IBM single-sided, single density format. The drives have been designed for high performance and reliability. Extensive self-tests are initiated at powerup and are accessible to the system processor.



SYSTEM FEATURES

System Processor

- Z-80A microprocessor
- 64K Bytes of main memory
- CP/M operating system

Terminal Processor

- Z-80A microprocessor
- 32K Bytes ROM implementing "intelligent terminal" functions
- 16K Bytes RAM for multi-page screen display

Display

- High resolution 12" CRT offers excellent readability
- Enhanced 9 x 15 dot character cell for character clarity
- Upper/lower case characters with displayable control codes
- Display enhancements: inverse video, underline, blinking, and half-bright
- Up to 5 pages of display memory, key-controlled scrolling on a line or page basis

Ease of Use

- Detachable, typewriter-style keyboard
- Separate numeric pad
- Full cursor positioning
- Full editing functions, including insert/delete character and insert/delete line
- Screen labeled function keys
- 8 user defined softkeys with 16-character labels
- Configuration menu for setting terminal parameters

Data Communications

- 2 EIA standard RS232C communication ports
- Asynchronous point-to-point at 110 to 9600 baud
- Full duplex modem support (compatible with Bell 103A modem)
- Character and line mode operation
- Flexible communication protocols

Peripheral Support

- RS232C serial printer
- Specified HP mass storage devices, plotters, and printers
- Integral thermal printer (optional) operates at 120 characters per second

Reliability and Serviceability

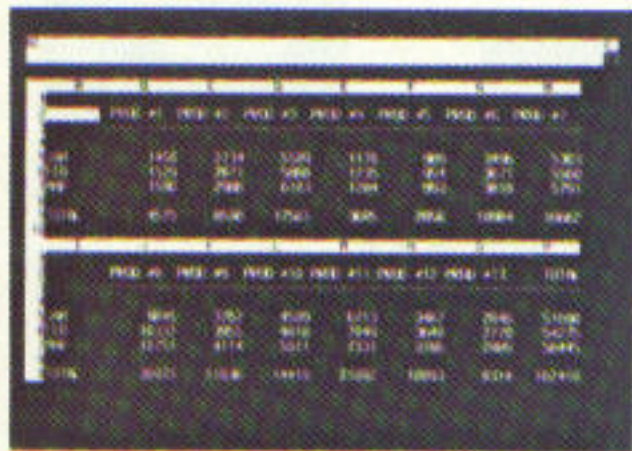
- Go/no-go and diagnostic self tests built-in
- Modular construction

	Model 10 (82901M)	Model 20 (9595A)
Total Capacity (2 drives formatted)	512K bytes	2.32M bytes
Recording Surfaces per Disc	2	2
Recording Format Density	Double	Double
Tracks per Surface	35	77
Sectors per Track	16	30
Bytes per Sector	256	256
Rotation Speed (rpm)	300	360
Average Access Time (msec)	187	179

Additional disc drives may be added to either a Model 10 or Model 20 system up to a total of 8 disc drives.

VISICALC/125

Better Financial Decisions
with VISICALC/125.



	1982	1983	1984	1985	1986	1987	1988	1989	1990
Q1	1450	2214	3290	4170	5000	5800	6500	7100	7600
Q2	1500	2300	3400	4300	5100	5900	6600	7200	7700
Q3	1550	2400	3500	4400	5200	6000	6700	7300	7800
Q4	1600	2500	3600	4500	5300	6100	6800	7400	7900
TOTAL	6100	9414	13790	17400	20600	23700	26600	29000	30700

VISICALC/125 is a powerful software program that allows you to manipulate rows and columns of numbers on the computer display screen. VISICALC/125 simplifies the entry of data by allowing you to automatically create a row or column by entering one number and a formula to calculate the remaining numbers. A single command will calculate a row or column total. The worksheet can be as large as 63 columns and 254 rows. By moving the cursor you can view any part of the work area on the computer display.

A range of function commands allow you to calculate subtotals, averages, net present values, trigonometric equations, and much more. By modifying your data or changing your assumptions you can answer "What if..." questions about your model. By changing any number on the worksheet, all numbers affected by the change will immediately recalculate and display the results. VISICALC/125 also allows you to save your model on disc for later use or to output your results to a printer. VISICALC/125 models stored on disc may also be processed by GRAPHICS/125 for multicolor graphics hardcopy output.



GRAPHICS/125

Professional Quality Graphics
For Business Applications.

GRAPHICS/125 provides sophisticated local graphics capabilities which require no programming knowledge. By filling in a menu on the computer display a user can quickly and easily create professional quality multicolor graphs and charts. GRAPHICS/125 will transform numeric data into pie charts, bar charts, and linear and logarithmic graphs. The finished hardcopy is produced by an HP graphics plotter either on standard paper or as an overhead transparency for group presentations. GRAPHICS/125 will also create text output on both media.

WORD/125

WORD/125 is a full feature word processor program designed for use by office personnel. WORD/125 uses the computer screen to display the portion of text being edited. Corrections, insertions, and movements of blocks of text take place on the screen as you execute the commands. You can view the finished text before printing. WORD/125 uses the print enhancements and proportional spacing capabilities of the HP 2601A, letter quality printer to produce documents with a typeset appearance.

Besides the extensive text editing and print formatting features, WORD/125 also maintains and sorts mailing lists. Mailing lists can be merged with form documents to create "customized" letters. New documents can be electronically cut-and-pasted by merging a series of items from a boilerplate file.

WORD/125 was designed for the infrequent user as well as the word processing professional. Screen labeled keys allow you to execute powerful commands with a single keystroke. WORD/125 changes the key labels to guide you, step-by-step, through the entire document preparation process.

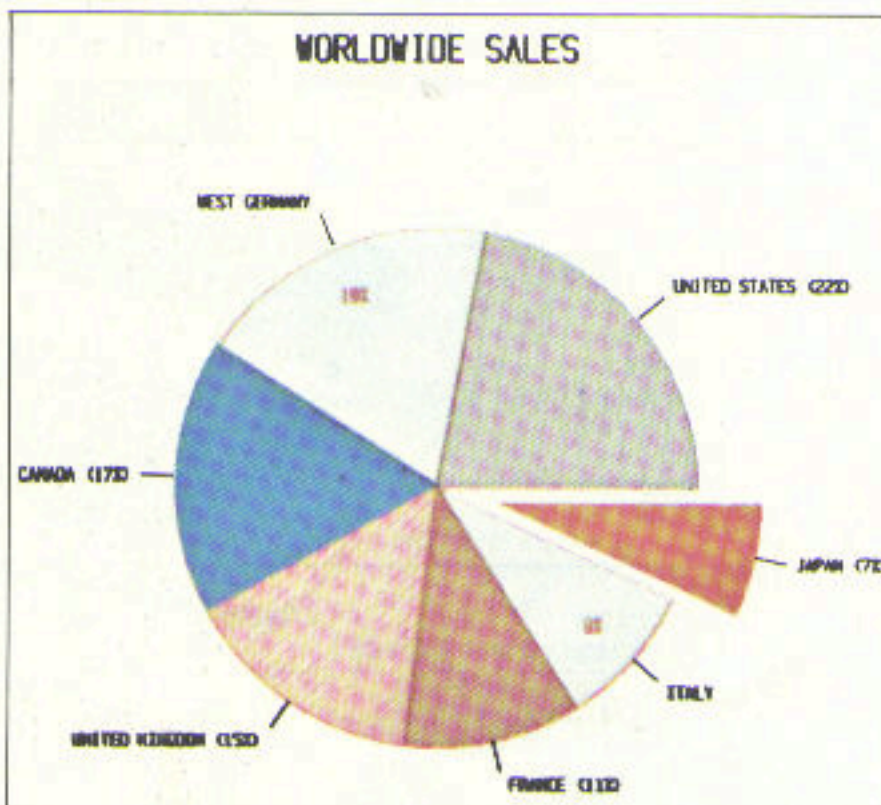
BASIC/125

For the programmer, the BASIC/125 interpreter provides one of the most extensive implementations of BASIC available on a microcomputer. BASIC/125 provides the features and performance you would expect from languages operating on minicomputers or large mainframes. BASIC/125 meets the requirements for the ANSI subset standard for BASIC, and it offers many advanced features.

LINK/125

LINK/125 is a communications program designed to transfer data files between HP 125 and HP 3000 computers. LINK/125 is the software that turns the HP 125 personal office computer into a distributed processor. With this software the HP 125 can access a remote file, transfer the file, and process it locally. Results can be stored locally, output to a printer, and transferred back to the HP 3000. LINK/125 also provides pushbutton execution of predefined QUERY/3000 procedures with inquiry results reported back to the HP 125 screen or local files. LINK/125 will support bi-directional file transfers via hardwired or remote connections.

LINK/125 was designed for ease of use. Once the communication parameters (i.e. log on message, password, etc.) are installed in the program, a user can initiate a file transfer simply by specifying the source and destination files and pushing a button. The program tells you when the transfer is complete and helps you select your next step.



HP 13265A 300 BAUD MODEM

The HP 13265A Modem is an asynchronous, full duplex, originate only data set that operates at speeds up to 300 baud. This modem allows the HP 125 to communicate with remote computer sites. The 13265A is compatible with Bell 103/113 modems or equivalent.

The direct connect feature of the 13265A allows quick installation into phone networks using the modular jack system. It also provides improved performance over acoustic couplers. Depending on whether the modem is in voice or data mode the connection can be used for incoming or outgoing voice calls, or data calls.



HP125 System & Price List

Select System



□ Model 10 (0.5 MBytes)
Order HP45500A + HP82901M

OR



□ Model 20 (2.32 MBytes)
Order HP45500A + HP9895A

Select Printer(s) (Optional)



□ Integral Thermal Printer
Order HP45500A Opt. 050

OR



□ HP2671A Thermal Printer

OR

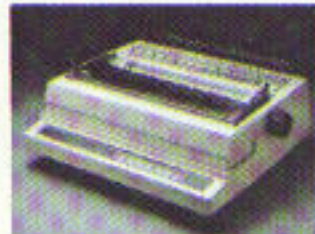


□ HP82905B Serial Printer



□ HP2631B Serial Printer

OR



□ HP2601A Serial Printer

Note: Specify either HP13242G cable (RS232C interface) or HP45529A/B cable (HP-IB interface)

Select Plotter (Optional)



□ 7225B Single-Pen Plotter
Order HP7225B + HP17601A

OR



□ HP9872C 8-Pen Plotter

Note: Specify either HP45529A or HP45529B Cable

Order Number	Option	Description	Sugg. Retail	YOUR COST
System				
HP45500A	STD	HP125 Computer System CPU/Terminal	\$3750	\$3075
	001	Swedish/Finnish Character Set	N/C	
	002	Norwegian/Danish Character Set	N/C	
	003	French Character Set	N/C	
	004	German Character Set	N/C	
	005	UK Character Set	N/C	
	006	Spanish Character Set	N/C	
	013	240V 50 Hertz	N/C	
	014	100V 60 Hertz	N/C	
	015	220V 50 Hertz	N/C	
	016	100V 50 Hertz	N/C	
	050	Thermal Printer		1210
	060	Operating System on 8" Mini-Disc	N/C	
Software				
HP45531A		VISICALC/125		\$200
	060	Software supplied on 8" Mini-Disc	N/C	
HP45532A		GRAPHICS/125		200
	060	Software supplied on 8" Mini-Disc	N/C	
HP45533A		WORD/125		500
	060	Software supplied on 8" Mini-Disc	N/C	
HP45534A		LINK/125		125
	060	Software supplied on 8" Mini-Disc	N/C	
HP45535A		BASIC/125		325
	060	Software supplied on 8" Mini-Disc	N/C	
HP45536A	060	HP125 Programming Package Software supplied on 8" Mini-Disc	N/C	75
HP82901M		5-1/4" Master Dual Mini-Disc Drive (256 KB/Drive)		\$2250
HP82901S		5-1/4" Slave Dual Mini-Disc Drive (256 KB/Drive) (Requires either 82901M or 82902M)		1995
HP82902M		5-1/4" Master Single Mini-Disc Drive (256 KB/Drive)		1395
HP82902S		5-1/4" Slave Single Mini-Disc Drive (256 KB/Drive) (Requires either 82901M or 82902M)		1195
HP9895A		8" Master Dual Flexible Disc Drive (1.2 MB/Drive)	6830	5600
	010	8" Master Single Flexible Disc Drive (1.2 MB/Drive)	4990	4092
	011	8" Slave Single Flexible Disc Drive (1.2 MB/Drive) (Requires either 9895A or 9895A-010)	3940	3230
	012	8" Slave Dual Flexible Disc Drive (1.2 MB/Drive) (Requires either 9895A or 9895A-010)	5780	4740

Order Number	Option	Description	Sugg. Retail	YOUR COST
Printers				
HP2601A		Daisywheel Serial Printer (RS232C interface)	\$4500	\$3690
HP26010A		Bidirectional Tractor Feed for 2601A	550	451
HP2631B		Serial Printer (RS232C Interface)	3900	3198
	046	HP-IB Interface	50	41
HP26097A		Pedestal for 2631B	290	237
	002	Paper Catcher	53	44
HP2671A		Thermal Printer (HP-IB Interface)	1095	897
	040	RS232C Interface	N/C	
HP82905B		Serial Printer (HP-IB interface) (Voltage option must be specified)	945	775
	002	120V	N/C	
Note: RS232C interface requires 13242G cable HP-IB interface requires 45529A or 45529B cable				
Plotters				
HP7225B		Graphics Plotter-1 Pen (Requires 17601A Interface + HP-IB cable)	\$2450	\$2009
HP17601A		HP-IB Interface Module for 7225B	750	615
HP9872C		Graphics Plotter-8 Pens (Requires HP-IB cable)	5300	4346
Accessories				
HP13265A		300 Baud Modem (Port 1)	\$395	\$323
HP13266A		Current Loop Interface (Port 1)	195	159
Cables				
HP45529A		HP-IB Cable - 1 meter		\$74
HP45529B		HP-IB Cable - 2 meter		79
HP13222N		U.S. Modem Cable (Port 1)		79
HP13222M		European Modem Cable (Port 1)		79
HP13222Y		Emp. Protect (Port 1)		53
HP13242N		U.S. Modem Cable (Port 2)		79
HP13242M		European Modem Cable (Port 2)		79
HP13242G		RS232C Printer Cable (Port 2) (Male connector)		68
HP13242H		RS232C Printer Cable (Port 2) (Female connector)		68
HP13242Y		Emp. Protect (Port 2)		74

Please Call For Shipping Weights.

Think system. Grow systematically. HP-85.

A COMPLETE COMPUTING SYSTEM

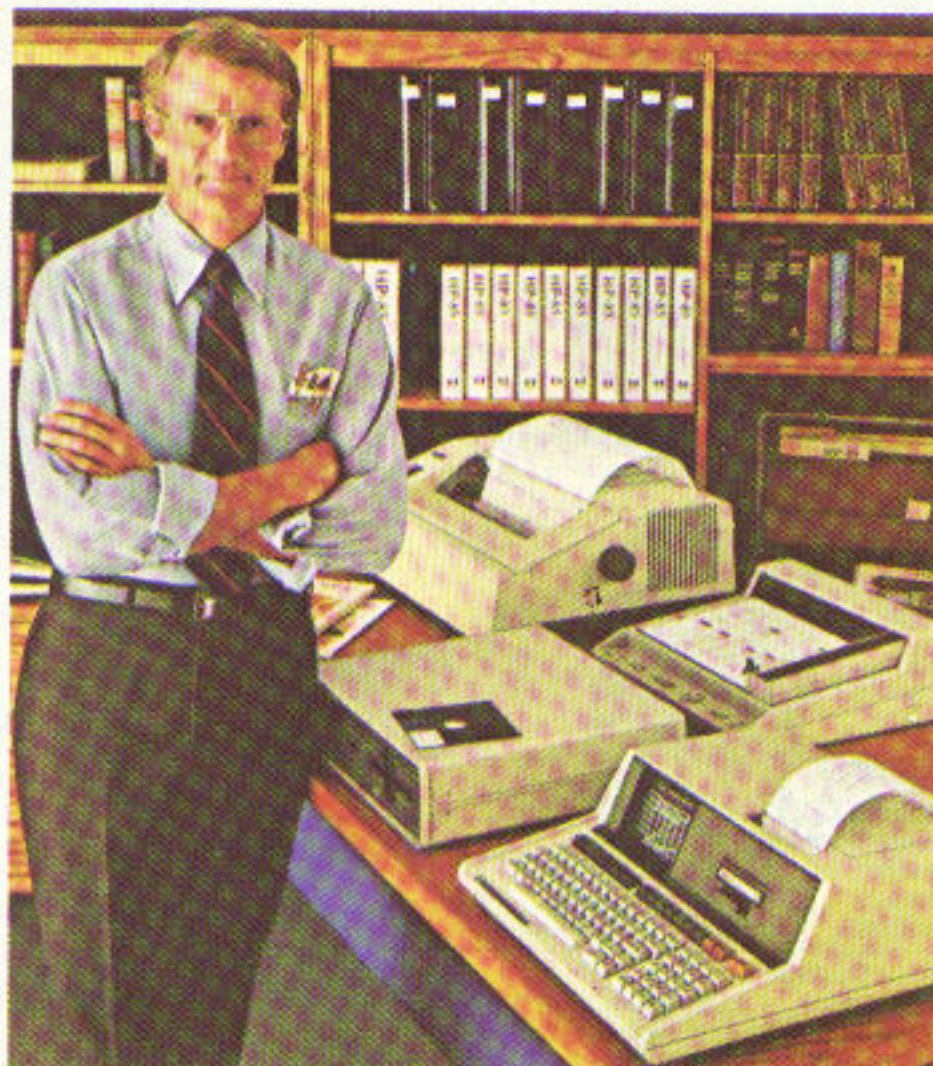
Encapsulated in a mere 20 lb. package, is a complete computing system. Keyboard, tape unit, CRT with alphanumerics and integrated graphics, printer and read/write memory — all ready for instant use. Just turn it on. That's all. Its language is powerful HP BASIC. The HP-85 is simple to use. Extremely effective. Highly productive. In brief, very professional.

"INSTANT INTERFACE" FOR EASY GROWTH

Now the HP-85 can be configured even further to accommodate your increasing demands. Instantly. Just plug in the HP interface bus and handle up to 14 peripherals or instruments. There's no need to write special operating programs. HP's peripheral ROM's do it for you. Options available now include flexible disc drives, additional read/write memory, graphics plotter, full-width printer, many software Application Pacs. More options are under development. Indeed, Hewlett-Packard is committed to providing solutions that meet your varied and changing needs.

ONLY FROM HEWLETT-PACKARD

There is no comparable computing system in the marketplace that offers you this combination of power, sophisticated growth potential, software, lightweight portability, convenience and ease-of-use.

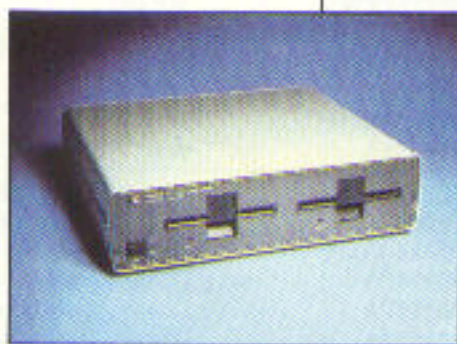


The Personal Computer For Professionals. HP-85 specifications: Memory — 16K RAM, expands to 32K; 32K ROM, expands to 80K; CRT — 32 chars/line, 16 lines; graphics — 256 x 192 dots; thermal printer — 2 lines/sec.; magnetic cartridge capacity — 200K; I/O — HP-B (IEEE 485), RS-232, 16-bit GP-C, BCD; Application Pacs include Statistics & Regression Analysis, Finance, Math, Linear Programming, Text Editing, Waveform Analysis, Circuit Analysis, BASIC Training, & Games.



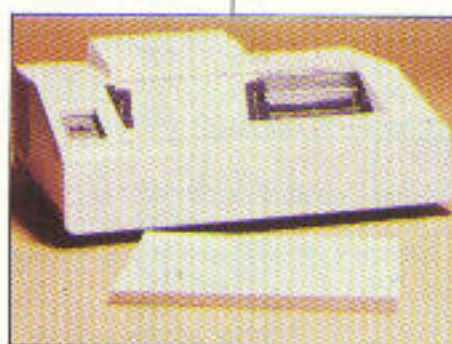
HP-IB Interface Module

Plugs into an HP-85 port and lets you add up to 14 peripherals or instruments.



HP 82900-Series Flexible Disc Drives

Provides the system with additional on-line storage. Maximum configuration using one master unit is four drives with storage of approximately 1,080K bytes. Multiple masters are permissible.



HP 2631B Printer

Provides reliable, full-width impact printing with up to 132 characters per line. Offers eight print modes, and a 7- x 9-dot matrix. Prints 180 characters per second on inexpensive computer paper or multi-part forms. Ideal for high volume output such as reports and data lists.



HP 7225A Graphics Plotter

Provides fast plotting (250 mm per second in each axis) and text labeling to produce publication-quality graphics with clean, continuous ink lines. Multicolor plots are easy with simple pen changes. The plotter accepts normal 8 1/2 x 11 paper and can produce overhead transparencies.

HP85 COMPUTER SYSTEM PRICE LIST



Order Number	Option	Description	Sugg. Retail	YOUR COST
Main Frames				
HP85A		Computer	\$3250	\$2595
HP83A		Computer	2250	1795
HP82903A		16K Module	295	255
Mass Storage				
HP82901M		Dual 5-1/4" Disk	\$2500	\$2250
HP82901S		Dual Add-On	2200	1995
HP82902M		Single 5-1/4" Disk	1500	1395
HP82902S		Single Add-On	1300	1195
HP9895A		Dual 8" Disk	5850	5600
	012	Dual Add-On	5750	4740
	010	Single 8" Disk	4990	4092
	011	Single Add-On	3940	3230
Printing/Graphics				
HP82905A		Printer	\$ 945	\$ 849
HP2631B				
	885	Impact Printer	3950	3650
	020	USASCII High-Dem.	150	144
HP7225B				
	002	Plotter Only	2450	2250
HP17601A				
	085	Personality Module Combination	750	699
HP9111A		Graphics Tablet	2050	1895
Firmware/Enhancements				
HP82936A		Rom Drawer	\$ 45	\$ 45
HP8515001		Mass Storage Rom	145	139
HP8515002		Plotter/Printer	145	139
HP8515003		Input/Output Rom	295	275
HP8515004		Matrix Rom	145	139
HP8515005		Advanced Program	145	139
HP8515007		Assembler Rom	295	275
Interfaces				
HP82937A		HP-IB Interface	\$ 395	\$ 349
HP82939A		RS232 Female	395	349
	001	RS232 Male	395	349
	002	RS232 Current Lo.	395	349
HP82940A		GPID interface	495	439
HP82941A		BCD interface	495	439
HP82949A		Centronics-type Parallel Printer interface	295	259
Application Pacs				
HP8513001		Standard Pac	\$ 95	\$ 89
HP8513002		Basic Training	95	89
HP8513003		General Statistics	95	89
HP8513004		Financial Decision	95	89
HP8513005		Math	95	89
HP8513006		AC Circuit Analysis	95	89

Order Number	Option	Description	Sugg. Retail	YOUR COST
Application Pacs				
HP8513010		Games	\$ 95	\$ 89
HP8513011		Linear Programming	95	89
HP8513034		Text Editing	95	89
HP8513035		Waveform Analysis	95	89
HP8513036		Basic Statistics	95	89
		Data Manipulation		
HP8513037		Regression Analysis	95	89
HP8513042		Visicalc Plus	200	174
HP8513044		Data Communications	N/A	
HP8513045		Information Management	200	174
HP8513046		Surveying	200	174
SOLUTION BOOKS				
HPR8590336		Stocks & Bonds	\$ 10	\$ 10
HPR8590337		Securities	10	10
HPR8590338		Budget I	10	10
HPR8590339		Budget II	10	10
HPR8590340		Management	10	10
HPR8590341		Real Estate	10	10
HPR8590346		Math Learning	10	10
HPR8590347		Science I	10	10
HPR8590363		Science II	10	10
HPR8590352		Electrical Engineering	10	10
HPR8590351		Electrical Engineering	10	10
HPR8590342		Math	10	10
HPR8590343		Numerical	10	10
HPR8590344		Probability	10	10
HPR8590345		Decision Analysis	10	10
HPR8590350		Games	10	10
Supplies, Consumables and Accessories				
HP98200A		Box Of 5 Tapes	\$ 90	\$ 90
HP82105		One Tape	20	20
HP82931A		Box Of 2 Rolls	30	30
HP82951A		Box Of 6 Rolls	90	90
HP92190A		Box of ten 5-1/4" Disks	74	74
HP92195A		Box Of Ten 8" Disks	105	105
HP82933A		Carry Case	120	114
HP82948A		Dust Cover	15	15
HP82932A		Carriage Holder	10	10
HP82935A		Binder	10	10
HP26097A		Printer Stand	275	275
	002	Paper Rack	50	50
HP1540-0560		Plotter Case	220	214
HP17055A		Overhead Kit	100	100
HP9872-60066		Digitizing Sight	35	35
HP10833D		1/2 M HP-IB Cable	70	65
HP10833A		1 M Cable	70	65
HP10833B		2 M Cable	75	70
HP10833C		4 M Cable	85	80

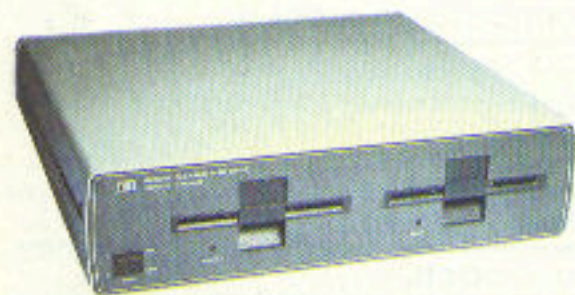
PLEASE CALL FOR SHIPPING WEIGHTS

ACCOUNTANTS — CPA'S — TAX-PREPARERS

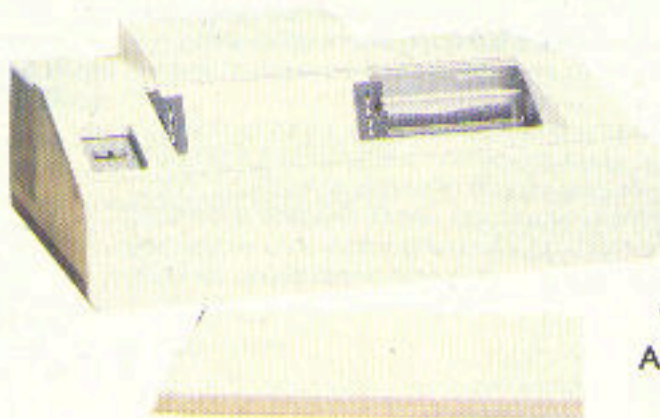
NEW TAX LAWS

ALREADY INCORPORATED IN

TAXWARE™



AVAILABLE ONLY
AT COMPUTIQUE



THE HP-85
TAX PREPARATION
AND TAX PLANNING
SYSTEM



A COMPUTERIZED MULTI-USE PROGRAM COMPRISING MANY ROUTINES USEFUL TO THE PROFESSIONAL AT A VERY LOW COST— LEASING AVAILABLE.

Taxware is a very powerful program written for the HP-85 computer that allows for the preparation and printing of federal and California income tax returns. The Taxware software will also handle corporations and partnerships. And because the Taxware program runs on the Hewlett-Packard 85 computer, you can use all of the other available programs that take care of your particular needs.

The Taxware package is broken down into five distinct modules. Module A, will run on the HP-85 with 16K memory. Module B requires a printer and extended memory, but will allow you to do much more. Client Write-up requires use of disk drive. Amortization and depreciation are independent.

Module A has the following features:

- Integrated federal and California income taxes.
- Estate planning, calculation, and forecasting program.
- 1040X and 540X for 1980, 1979, and 1978.
- California schedules P and G-1.
- Back-in-program: Give it the tax. It gives the income.
- Bank reconciliation: Many automatic features.

Module B includes:

- Individual, Federal and California partnership and corporation tax returns.
- Prints for overlays or carbon sets.

Depreciation

Amortization

Client Write-up

- After the fact payroll
- General ledger

TAX PLANNING

Due to significant tax changes, now more than ever, tax planning becomes so important. Tax planning, both during and after the tax season, is a continual process. It is often necessary to determine the optimum method of treating a transaction such as a possible installment sale, etc. The factors of income averaging, alternative minimum tax, and maximum tax on earned income cannot be ignored in planning. Therefore this program is designed to enable a professional to build a model by randomly selecting income and deduction categories and to print a report. It is important to note that both federal and state data is input rapidly. If the state is the same as the federal on any input item it is only necessary to touch a key to duplicate that for the state.

TAX PREPARATION SYSTEM

The tax preparation system was designed to provide an extremely fast, efficient and effective way of preparing federal and California personal income tax returns. Features of the system include full screen prompting to make the system effectively operable with very little training. Sales tax is automatic but may be manually overridden. Actual forms may then be printed in a matter of a few minutes or printed at a later time. Depending on printer selection the

actual forms may be printed on continuous forms, standard government forms, white paper for use with overlays, or form sets. Various printers offer these.

Taxware is sold with the HP-85 as a complete package deal at a very reasonable price. A full system allows CPA's to get started right away. Taxware is very easy to use with understandable entry and edit features.

Client Write-up was written by a CPA who uses the system in his own practice. It's very straight forward and has flexible formatting of reports with current period, year to date and percentages. Also includes After The Fact Payroll and will print W-2's.

System prices start as low as \$4315.00 and go to \$13,500.

FEDERAL	
SALARIES & WAGES	45,000.00
INTEREST	3,000.00
DIVIDENDS	5,000.00
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HOW TO ENRICH AND EXPAND YOUR FAMILY'S WORLD

The Texas Instruments Home Computer is a whole new way for you and your children to learn.

Whether it's sharpening your children's math skills, advising you on household financial decisions, or simply teaching you to win at chess, our Home Computer makes learning interesting and easy. It works for your entire family, from preschool to college and beyond.

You're the boss. Choose from many available subjects at varying levels of difficulty. We have programs for your children like spelling, math, and reading. And programs for you such as financial planning and record keeping.

You don't have to be a computer expert to learn from our Home Computer. Just slip in the program Command Module for the subject you want to study, and instantly it's ready for you to watch and learn. It sounds easy because it is. It's like having an expert right in your home, always within reach. It's ready to teach a broad range of topics anytime you want to learn.

The Texas Instruments Home Computer is a whole new way to learn.

Use it today and tomorrow.

More and more people are learning by computer. Children in modern schools are practicing their reading skills with computers. In business, engineers are learning high-level technology by computers. The Texas Instruments Home Computer gives you a wide range of learning possibilities, right in your home. It teaches you today and keeps teaching you tomorrow. The opportunities are wide open.

"It's a whole new way to learn."

WHAT IT IS.

It's your children's private tutor.

Our Home Computer is a tutor for you and your children. It makes dull subjects spring to life, holding your children's attention to make learning interesting.

Our programs for children were designed by leading educational professionals who know what it takes to motivate children to learn, and what makes learning interesting at every level, at every grade.

Programs for grammar, spelling, reading and arithmetic use time-proven methods like flash-card techniques and repeat-after-me instructions. Add sound effects, visual and verbal rewards, even Solid State Speech™, and learning takes on a whole new dimension. It's interesting and entertaining for your children.

It's your financial mentor.

Our Home Computer can help you manage your household and personal finances. From keeping your records and advising you on investments, to helping you make a difficult buying decision. It's like having a teaching accountant work for you in your home.

It's your coach.

Look no farther than your Home Computer to find a partner to challenge you to a game of football, chess, or bridge. It not only plays with you, but can help teach you important aspects of a game from strategic first moves to winning final plays.

And it talks, too.

A speech synthesizer is one of our most popular optional features. It adds a human and personal touch to many of the areas you'll explore. Our synthesizer reproduces the human voice electronically, and with the help of the plug-in Terminal Emulator II module has a limitless vocabulary.

There's no waiting.

You're ready to learn in minutes from the time you uncock the box, even if you've never seen a computer before. Prepared software modules are easy to use, easy to learn from. Slip in one of T.I.'s exclusive Solid State Software™ Command Modules on the subject you want to learn. In seconds you're on your way to mastering that subject. Step-by-step our Home Computer flashes a list of instructions onto the screen. With our advanced keyboard, you can carry on a complete conversation with the computer.

A library of knowledge waiting for you.

Command Modules are like a large library of knowledge. They are specially designed by Texas Instruments with a concept that has been proven in our line of advanced programmable calculators. Subjects, activities and instructions are permanently stored in a series of memory chips that activate when you insert the module. You can choose from a wide assortment of subjects.



THE HOME COMPUTER FROM TEXAS INSTRUMENTS

Enrichment, enchantment, excitement, enhancement.

Design your own information center.

TI offers a wide range of options and flexibility features. You can choose the accessories you need to fit your requirements for learning and communication. Here's what you can add, starting with the Main Console.

Main Console. The low-profile, compact console contains the brain of the Home Computer—a powerful TI 9900 microprocessor.

Here the operating system and TI BASIC are permanently installed. The console has a series of connectors (I/O ports) that let you add optional peripherals or accessories when you need to.

There's a special port at the front of the console to receive TI's Solid State Software™ Command Modules. At the rear, there's a dual audio cassette connector that lets you store information or programs to use later on.

A closer look. Here are some of the communication tools TI BASIC has to offer you:

Sound Effects. The sound subprogram lets you play tones over a five-octave range and up to three notes for computer music and/or sound effects. You can control sound duration and volume.

Color Graphics. The colorful graphics subprogram lets you create colorful graphs, charts, pictures, gameboards, and more, right on the screen. You can experiment with up to 128 graphic characters and 16 different colors.

The Console features our advanced keyboard design. The 48 keys include shift, function, and control keys, full upper and lower characters, alpha lock for simultaneous use of numerals and characters, plus Auto Repeat on all keys (with 2-second delay).

Optional accessories.

Disc Memory System. A min-floppy disk storage system lets you store additional information that you wish to keep and refer to at a later time. Each system must be configured with one TI Disk Drive Controller (Model PHP 1800) and from 1 to 3 Disk Memory Drives.

The Disk Drive Controller handles variable length records, as well as sequential and relative files. Free disk space is automatically reassigned for file allocation.

Each system comes with a preprogrammed Command Module that supplies disk utilities and file maintenance commands.

10" Color Monitor. Our 10" color monitor gives you excellent color resolution (192 x 256 dot density) and a display format for 24 lines of 32 characters. Because our Home Computer connects directly to the video input on the Color Monitor, it eliminates any interference and tuner distortion. You get a picture quality that is far superior to that of normal TV reception.

Video Modulator. Attach the Video Modulator and turn your existing color or black & white TV screen into a computer display. When you want to watch normal TV programming, turn the Computer/Television switch to "Television". You never have to disconnect the Video Modulator.

Solid State Printer. The Solid State Thermal Printer gives you a printed copy of your records or programs. Controlled from the built-in TI BASIC, it can print results and list programs that you have stored in the computer memory.

It prints data on a 32-column, 5 x 7 dot-matrix character format at 30 characters per second. Under program control, you can vary line spacing and print special characters. In addition to standard letters and numbers, the printer has 32 predefined graphic symbols you can use for charts and graphs. It's compact and prints on 3.5" thermally sensitive paper. Because it has few moving parts, it operates quietly and needs little maintenance.

RS232 Interface. A standard all-purpose communications adapter that lets you hook up to a wide range of serially formatted accessories, including those made by other manufacturers. You can list programs by printer, send and receive data from a terminal, and exchange TI BASIC programs directly between TI Home Computers. Using TI BASIC, you can select baud rate, number of bits, parity, and the number of stop bits. In effect, you can interface with both low and high-speed peripherals.

Solid State Speech™ Synthesizer. TI invented the integrated circuit, the microprocessor and the micro-computer. Now TI brings you Solid State Speech. The synthesizer reproduces human speech completely through electronics. It adds a personal, human quality to the Home Computer, especially important for educational and entertainment programs.

The synthesizer plugs directly into your Home Computer's built-in connectors without external cables or wiring. It also lets your Home Computer communicate with you, without your having to watch the display. And it can recite instructions to children who are too young to read. Using the synthesizer to make speech a part of programs requires a special Command Module, either the Speech Editor module or the Terminal Emulator II module (both sold separately).

Telephone Coupler. Using the RS232 interface, the Coupler allows you to send and receive messages, data, and entire programs through a standard telephone. You can communicate directly with similarly equipped computers stationed at remote locations. The Coupler also allows dial-up access to remote data bases and software services such as The Source™ and other data bases soon to be available (see your dealer for details).

Wired Remote Controllers. These optional devices let you position or move objects on the screen. Each unit includes an eight-position remote control and a convenient side-mounted action button.

Memory Expansion. The Memory Expansion Unit increases the Home Computer's random access memory (RAM) from 16K bytes to 48K bytes. It allows you to run more complicated programs and solve complex problems faster. And when the Memory Expansion Unit is attached, you can connect up to four additional accessories.

Console.

CPU: 9900 Family, 16-bit microprocessor, plus 256-byte scratchpad RAM.

Memory: Total combined memory capacity: 72K bytes. Internal ROM memory supplied: 26K bytes. External ROM memory (Solid State Software™ Command Modules): up to 30K bytes each. RAM memory supplied: 16K bytes (expandable to 48K bytes).

Keyboard: Staggered Qwerty (standard typewriter style), full travel style layout. Overlay for second functions.

Sound: 5 octaves, 3 simultaneous tones plus noise generator. From 110 Hz to beyond 40,000 Hz.

Colors: 16

Video resolution: 192 x 256

Power: 110V, 60 Hz, 20W. Wall-mounted console transformer, UL listed 5' power cord.

I/O: Composite video and audio output for monitor interface for up to 2 audio cassettes. 44-pin peripheral connector. System memory and address signals available at peripheral connector. Hand controller interface.

Size: 25.9 x 35.1 x 7.1 cm. (10.2 x 15.0 x 2.5 in.)

Weight: Less than 2.3 kg. (5 lbs.)

Note: To utilize the Memory Expansion Unit, the TI Extended BASIC Command Module or another specialized module must be inserted in the computer console. The computer's built-in TI BASIC language cannot access the Memory Expansion Unit.





TI LOGO...a child-appropriate computer language.

"I like TI LOGO because you can make any shape you want. You can make lots of neat procedures"



Helping students explore increasingly complex capabilities.

The use of computers as an educational tool is an effective way to provide for individual needs, improve the availability of classroom resources, and motivate students. TI LOGO can touch all students on a personal level of cognitive growth. It helps students discover the importance of spelling, communication skills, and sequential thinking.

Of Turtles...

With the help of "Turtle Graphics," students can learn a computational system of geometry by "acting out" the role of the Turtle. The commands in TI LOGO for controlling the movement of the Turtle on the drawing surface of the display are: **FORWARD** (a number of Turtle steps), **BACK** (a number of Turtle steps), **RIGHT** (a degree of turn), and **LEFT** (a degree of turn). A student thinks of a design, a square. He or she acts it out, draws it, or just tells the Turtle how to do it. The commands can be given one at a time, or put into a procedure and named. From this simplistic stage, a student can progress to more complicated designs.

Suppose a house was the next project. A student divides the house into a square and a triangle. The steps for drawing the components of the house then become subprocedures of the procedure **HOUSE**. Calling a procedure by its name is an example of the process of communication. The name represents shared knowledge between the student and the computer.

The procedure can be saved on a diskette or cassette tape and re-used when the student wants, just by recalling it by name.

...and Sprites

For all students, even those with learning disabilities, TI LOGO serves as an unhurried guide to a world of animated shapes. The student creates and designs this world by using the computer's 32 Sprites. A Sprite is an undefined space on the display that carries any shape. The shape can be one the computer knows (**PLANE**, **ROCKET**, **TRUCK**, **BALL** or **BOX**); or any shape a student designs with **MAKESHAPE**. The Sprites carrying a shape can then be given other features — color, speed, heading, and velocity.

Sprites can be used in simple procedures, like one that makes a black truck move across the display, or advanced ones that actually test a situation.

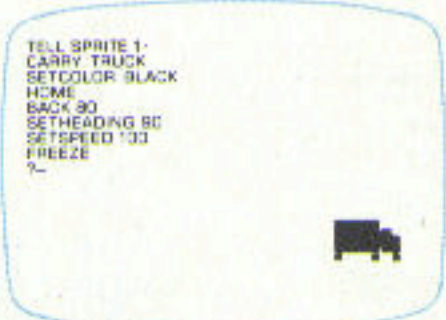
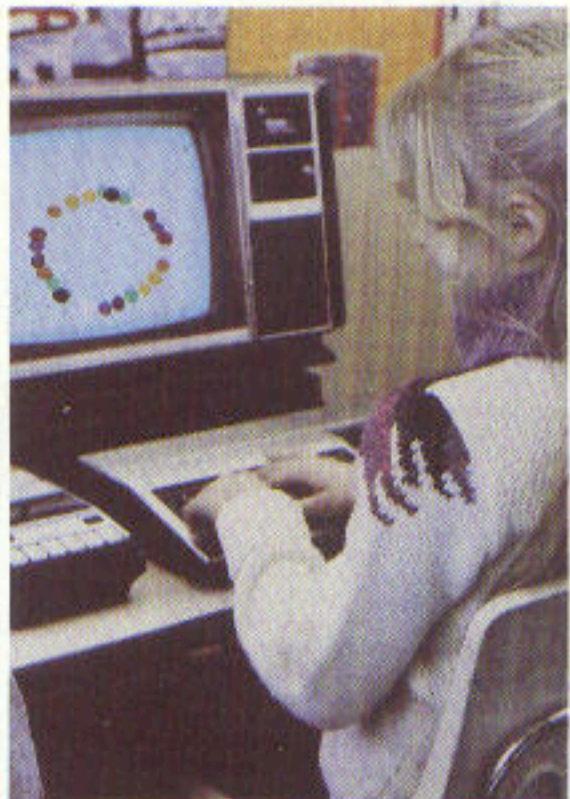
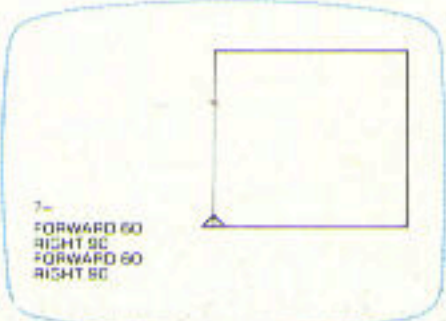
The computer has a special role in education as it can help to make practicable new styles of teaching and learning, not only for classroom situations but also for education in the home and throughout life.

The role of computers in education has traditionally cast the computer as the "teacher" and the student as a passive learner of the computer's lesson. While this approach is useful for teaching a prescribed curriculum, it does little to promote a feeling for what computers can and cannot do. TI LOGO is an innovative approach which not only develops computer awareness, but enriches a child's math, logical, and communication skills as well.

TI LOGO is a derivation of LOGO, a computer language based on a philosophy of education developed over a 12-year period by Professor Seymour Papert and the staff of the Artificial Intelligence Laboratory at the Massachusetts Institute of Technology (MIT). The core principle of LOGO is to create computer-based environments in which mathematics and other areas of "formal" learning can occur in a natural manner. Many of

LOGO's premises are based on Jean Piaget's theory of intellectual development, which describes a child's development as taking place in a series of stages. TI LOGO, which is the result of collaboration between the MIT staff and Texas Instruments, is the first implementation of LOGO on a low-cost microcomputer system — the TI Personal Computer.

For computers to become a valuable learning tool, the computer must understand a language a student can easily learn, and the computer must be able to do something for the student immediately. TI LOGO is a child-appropriate computer language, which means that it lets students, of all levels of ability, communicate with the computer using an easy-to-understand language. With its Sprite, Tile, **MAKESHAPE**, **MAKECHARACTER**, and "Turtle Geometry" capabilities, TI LOGO places children in a virtually unlimited creative environment.



"I wish I could do the computer every day"

TEXAS INSTRUMENTS TI-99/4A HOME COMPUTER PRODUCTS

1620
230
390

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TIP99/4A	TI-99/4A Home Computer	525.00	399.95
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TIP1600	Telephone Coupler (Modem)	224.95	189.95
TIP1700	RS-232 Accessories Interface	224.95	189.95
TIP1800	Disk Drive Controller (One Disk Manager module packed with each Disk Controller)	299.95	229.95
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TIP3013	Personal Record Keeping	49.95	44.95
TIP3016	Tax/Investment Record Keeping	69.95	64.95
TIP3022	Personal Real Estate	69.95	64.95

DISKETTE			
TIP5001	Mailing List	69.95	64.95
TIP5003	Personal Financial Aids	19.95	17.95
TIP5021	Checkbook Manager	19.95	17.95
TIP5022	Business Aids Library — Finance Management	39.95	37.95
TIP5024	Business Aids Library — Inventory Management	69.95	64.95
TIP5027	Business Aids Library — Invoice Management	69.95	64.95
TIP5029	Business Aids Library — Cash Management	39.95	37.95

CASSETTE			
TIP6003	Personal Financial Aids	14.95	13.95

Education/Personal Enrichment

COMMAND MODULES			
TIP3002	Early Learning Fun	29.95	27.95
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TIP3021	Weight Control and Nutrition	59.95	54.95
TIP3027	Addition and Subtraction I	39.95	37.95
TIP3028	Addition and Subtraction II	39.95	37.95
TIP3029	Multiplication I	39.95	37.95
TIP3040	TI LOGO (Requires PHP2200 Memory Expansion)	299.95	229.95

DISKETTE			
TIP5007	Teach Yourself BASIC	34.95	31.95
TIP5009	Music Skills Trainer	29.95	27.95
TIP5011	Computer Music Box	19.95	17.95
TIP5018	Market Simulation	19.95	17.95
TIP5019	Teach Yourself Extended BASIC	24.95	21.95

APPLICATION PROGRAMS CONTINUED Education/Personal Enrichment Continued

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TIP5042	Spellwriter	29.95	27.95

CASSETTE			
TIP6007	Teach Yourself BASIC	29.95	27.95
TIP6009	Music Skills Trainer	24.95	21.95
TIP6011	Computer Music Box	14.95	13.95
TIP6018	Market Simulation	14.95	13.95
TIP6019	Teach Yourself Extended BASIC	19.95	17.95
TIP6026	Bridge Bidding I	24.95	21.95
TIP6039	Bridge Bidding II	24.95	21.95
TIP6041	Bridge Bidding III	24.95	21.95
TIP6042	Spellwriter	24.95	21.95

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TIP3018	Video Games I	29.95	27.95
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TIP3037	Hangman	19.95	17.95
TIP3038	Connect Four	19.95	17.95
TIP3039	Vahzee	24.95	21.95

DISKETTE			
TIP5002	T-Trek (w/speech)	14.95	13.95
TIP5010	Mystery Melody	14.95	13.95
TIP5015	Oldies But Goodies — Games I	19.95	17.95
TIP5017	Oldies But Goodies — Games II	24.95	21.95
TIP5025	Saturday Night Bingo	29.95	27.95
TIP5037	Draw Poker	24.95	21.95

CASSETTE			
TIP6010	Mystery Melody	9.95	8.95
TIP6015	Oldies But Goodies — Games I	14.95	13.95
TIP6017	Oldies But Goodies — Games II	19.95	17.95
TIP6025	Saturday Night Bingo	24.95	21.95
TIP6037	Draw Poker	19.95	17.95

OTHER APPLICATION PROGRAMS

COMMAND MODULES			
TIP3000	Diagnostic	29.95	27.95
TIP3001	Demonstration	69.95	64.95
TIP3011	Speech Editor	44.95	39.95
TIP3014	Statistics	44.95	39.95
TIP3026	Extended BASIC	99.95	89.95
TIP3035	Terminal Emulator II	49.95	44.95

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TIP5004	Programming Aids I	14.95	13.95
TIP5005	Programming Aids II	24.95	21.95
TIP5006	Math Routine Library	29.95	27.95
TIP5008	Electrical Engineering Library	29.95	27.95
TIP5012	Programming Aids III	19.95	17.95
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TIP6004	Programming Aids I	9.95	8.95
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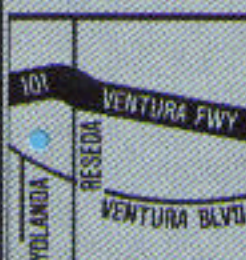
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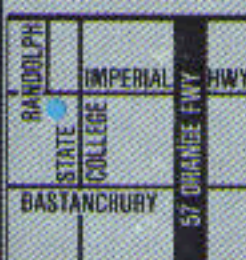
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