

©1994

Calculators, Palmtops and PDAs

\$1.00

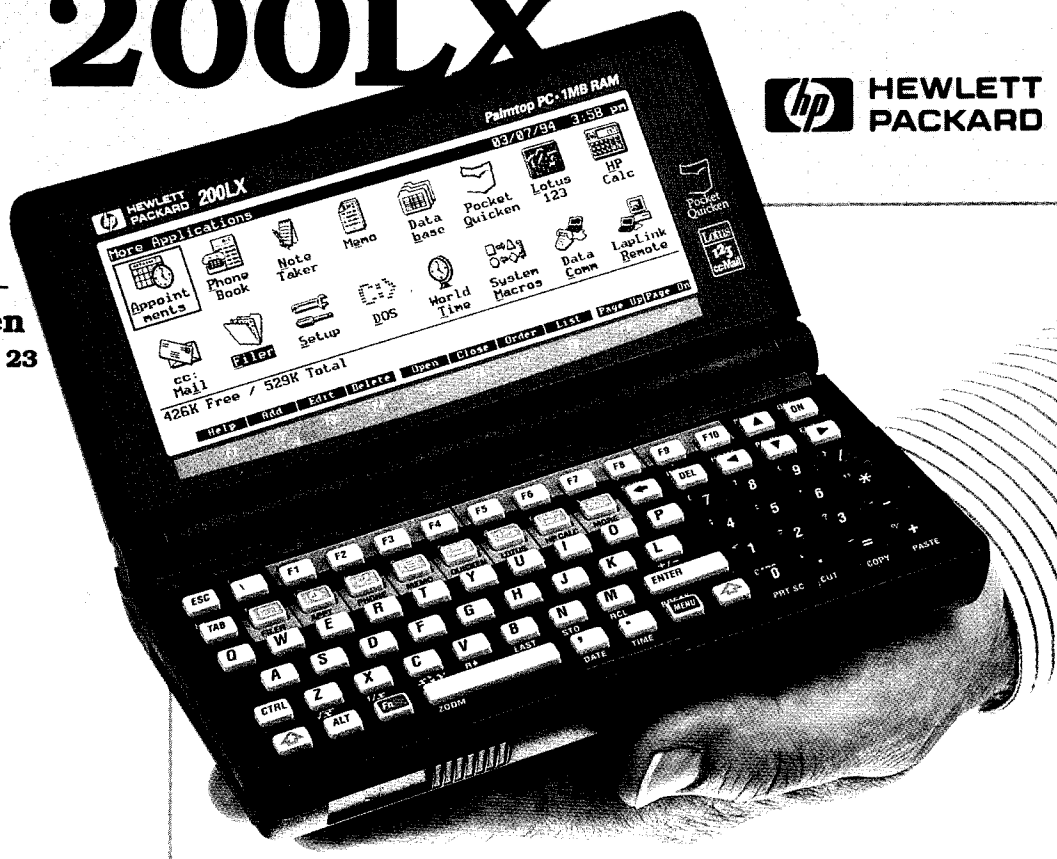
EduCALC

Catalog #65

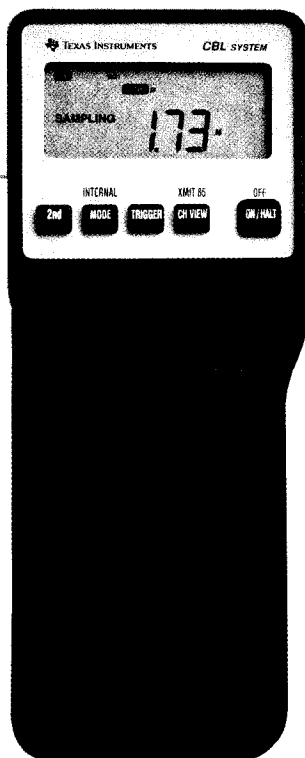
HP 200LX

hp HEWLETT
PACKARD

the 11 oz PC—
now with Quicken
see pages 8 to 23



TEXAS
INSTRUMENTS



CBL

TI's new calculator-
based data-acquisition
system
see page 38

Starlink

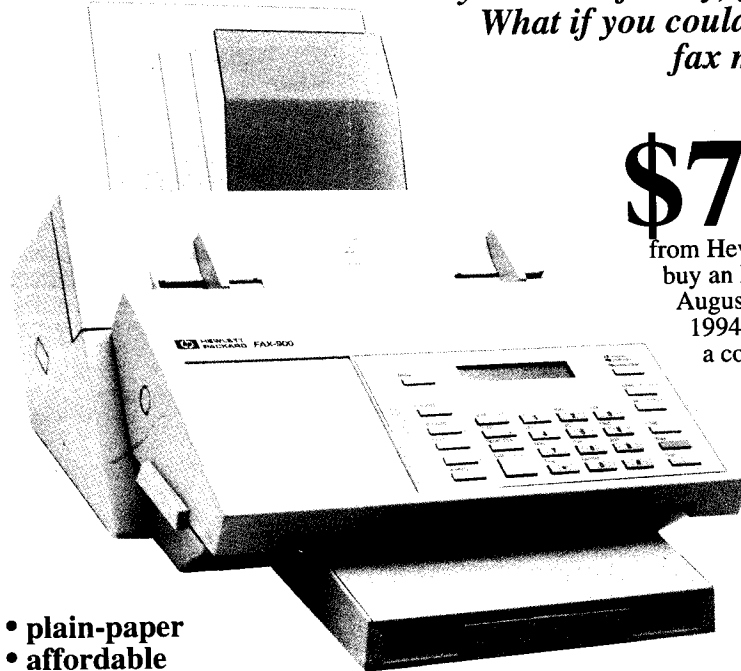
HP's wireless card—
receive personal messages,
news, weather, sports
see page 19



hp HEWLETT
PACKARD

FAX-900/950

*Why didn't you get one in the first place?
Are you tired of curly, greasy faxes now?
What if you could get a plain-paper
fax machine for \$714?*



\$75 rebate

from Hewlett-Packard when you
buy an HP FAX-900 between
August 1 and November 30,
1994—EduCALC will include
a coupon with your unit.

- plain-paper
- affordable



I mean real HP quality, with rock-solid specs plus goodies like auto-feeding.

These new Hewlett-Packard machines use the unique HP inkjet printing system, the same technology as in the DeskJet and DeskWriter printers—so your faxes are dark, crisp and readable, and so your machine is extraordinarily reliable. So reliable, in fact, that it carries a 1-year warranty, something you'll be hard-pressed to find in other fax products (that's the kind of protection you deserve—the kind you expect from HP).

Express Exchange guarantees *next-business-day* replacement for a whole year—depend on it!

The FAX-900 is **loaded** with new-generation features, speed and convenience. It feeds 30 letter/legal/A4 pages, transmits at 12 sec/page and has memory for 12 pages. It broadcasts to 50 numbers, speed-dials, can delay dialing until phone rates drop, automatically corrects errors, and polls another fax to receive from it. It can detect distinctive rings on a multiple-number line, automatically switch among fax, phone and/or answering machine, and

holds incoming faxes in memory when it's out of paper. Convenience copier function.

64 halftone levels plus new smoothing technology ensure superior photos, logos and graphics. It transmits at 200 dpi but receives at 300 dpi.

Do you want fuzzy, floppy, fading faxes? Or faxes you can actually read, write on and work with? Here's your solution—at this breakthrough price you can't afford not to have one.

Stock #C3510A [HP FAX-900] List \$970 . . . \$789

Stock #H5465A [Expr Exch extn to 3 yrs]. . . \$85

FAX-950

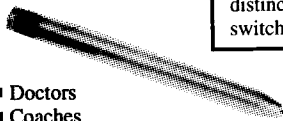
Want the very best? This powerhouse has all features of the FAX-900 plus 28 page memory (upgradeable to 148 pages), 100-number speed dialing, 300 dpi sending, confidential send/receive, added telephone handset, and much more.

Stock #C3520A [HP FAX 950] List \$1199. . . \$939

Stock #H5465A [Expr Exch extn to 3 yrs]. . . \$85

Laser Pointer Pen

ALPEC



- Speakers ■ Doctors
- Engineers ■ Coaches
- Realtors ■ Trainers
- Lawyers ■ Scientists
- Teachers ■ Executives
- Architects ■ Administrators

Power your point home with a round red laser punch! Put new life in your presentation — focus their attention where you want it with this light-pen. Always with you in your shirt pocket.

Range 55 yards, 3 hr continuous operation on 2 AAA batteries (incl) silver; pen-sized 7/16 x 5 3/8 inches. 1 yr "no B.S." warranty.

Stock #2888 [Laser Ptr] . . . \$69.95

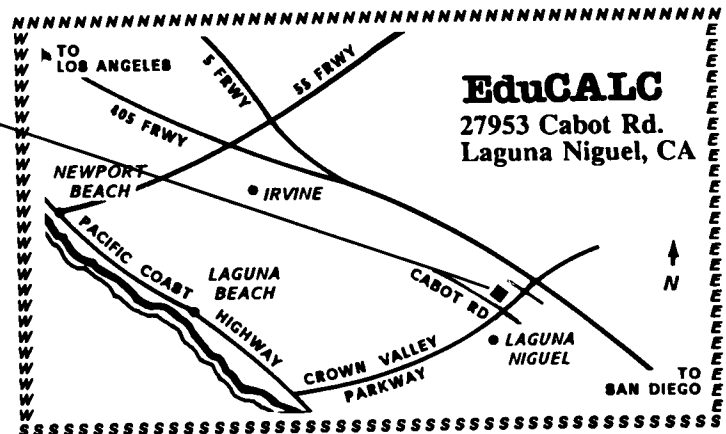
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We're located right here in Orange County, California, near the intersection of Interstate 5 and Crown Valley Parkway (across the freeway from Mission Viejo Mall).

HOURS:

8 am - 5 pm
Monday - Friday

*Prices effective
August 28, 1994*



EduCALC
27953 Cabot Rd.
Laguna Niguel, CA

here's who you'll talk to at EduCALC

EduCALC

Fall, '94

27953 Cabot Road
Laguna Niguel, CA 92677

Dear Reader,

The best just got better—the Palmtop PC has matured. If you were far-sighted, you could see that Hewlett-Packard had an instant winner on its hands with the HP 95, the little PC that defined what the palmtop should be by outselling all others combined.

Next, our technically sophisticated customers were impressed with the HP 100 for its 80-column screen, real DOS that could run your PC programs, and built-in cc:MAIL. Hewlett-Packard must have sold more than a quarter million of them.

Now there's a mature product for the rest of us. The HP 200LX is perfect for the prudent, the cautious and the just plain thrifty.

It too has new built-in software, like Pocket Quicken to manage daily finances and LapLink Remote to access your 200LX from within desktop applications. But there are many more changes. Some of these are up-front additions like the new DEMO program that automates a quick tour of the 200LX (will that impress your friends?) and 2 new GAMES, *Hearts & Bones* and *Lair of the Squid*.

There are subtle changes also, scattered through its 50% larger ROM, changes in every application to make the 200LX easy to use and indispensable to you. There's global password protection, and an added HEX calculator. You can print out monthly calendars. Many displays, icons and commands have been improved. cc:MAIL now has automatic exchanges to update the Address Book. Clipboard capacity is up, to 10K . . . The list is long.

My point is, this machine is refined, upgraded, improved, redesigned, and deinked.

Now it's ready for you!

Sincerely,

Jim Carter
Jim Carter
Manager



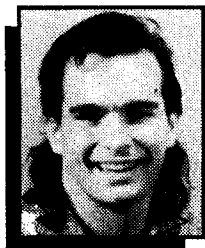
P. S. I've hidden a coupon somewhere in this issue—find it now and enter my contest for a FREE calculator.



Christy



Ellen



Brent



Kerry



Juleigh



Richard



Christy



Beckie



Jim



Jenni



Marta



Kaycee
EduCALC's
Official Greeter

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The Nature and Power of Mathematics

by Donald Davis

Get that excitement again as Davis explains some of the most fascinating ideas in mathematics to the nonspecialist—enjoy their philosophical and historical twists, their surprising applications and their beauty.

A great book for a freshman who is considering possibly majoring in math—presumes only high school algebra and geometry, and even that is not essential.

The three main topics are non-Euclidean geometry (basis for relativity theory), number theory (major component of cryptography), and fractals (elements of computer-generated art). Also discusses use of Greek math in explaining Kepler's laws of planetary motion and theoretical works behind the development of computers.

Stock #2996, Nature/Powers of Math, 389p paperbound . . . \$24.95

Conquering Mathematics from Arithmetic to Calculus

by Motz/Weaver

"a feast for the intellect"—*Publishers Weekly*
"a must for those who want to find what Mathematics is about"—*Marcelo Alonso* (Prof., Florida Inst. of Technology)

"allows us to arrive painlessly at Higher Math"—*Hugh Downs* (Host of ABC's 20/20)

After two wonderful books explaining physics, Motz and Weaver return to demystify math. Straightforward and accessible, they lead even fearful readers through the fundamentals of practical arithmetic—even to transfinite and imaginary numbers.

Always practical, they explain the derivative with Newtonian physics, algebra with continued fractions.

Stock #2543, Conquering Mathematics, 305p hardbound . . . \$23.50

Engineering in History

by Kirby/Withington/
Darling/Kilgour

"Highly readable . . . the only comprehensive, one-volume survey currently in print . . .

"The joint effort of practicing engineers, engineering professors, and professional historians . . . (its) principal strength is its attention to detail . . . The sheer number of remarkable accomplishments included in its pages is inspiring and reminds us of the tremendous impact engineering has had—and continues to have—on human civilization.

"Gives the professional a breadth of vision." *IEEE Spectrum*

Stock #2581, Engineering in History, 530p softbound . . . \$13.95

Fuzzy Thinking

by Bart Kosko

Brand New

Find out how this revolutionary new way of thinking is designing smart air conditioners, washing machines and cameras that serve us better.

It's easy now, with this popular new anti-science book. Professor Kosko of USC has degrees in philosophy, economics, mathematics and electrical engineering. With his diagrams, not equations, and with quotes from Einstein to Buddha, Aristotle to Freud, you'll broaden your science, your philosophy, your horizons, and maybe your job skills.

Stock #3234, Fuzzy Thinking, 318p softbound . . . \$24.95

200% of Nothing

by A.K. Dewdney

New

"In today's world, 'innumeracy' is an even greater danger than illiteracy, and is perhaps even more common. Advertisers and politicians exploit it; intellectuals (self-styled) even flaunt it. I hope that this wise and witty book will provide cures where they are possible, and warnings where they are necessary.

It's also a lot of fun. I can guarantee that 100%." Arthur C. Clarke

" . . . enjoyment and eye-opening enlightenment." Martin Gardner

Stock #2999, 200% of Nothing, 182p hardbound . . . \$19.95

the Fermat Fest Video

Mathematical Sciences
Research Institute

*At last—
Blockbuster Math!*

Nobody dreamed it would be a sellout—the bigdome from MSRI were flabbergasted as they watched scalpers outside the 1000-seat auditorium in San Francisco get \$25 for their \$5 tickets.

"Hottest math show in town," said reviewers, "a model of how to present mathematics to an informed and interested public." You saw it in the newspapers earlier this year. Now you can taste the excitement as a simple-to-understand, 300 year-old problem is finally solved. Feature-length video contains an interview with Theorem-Prover Andrew Wiles, musical interludes by Morris Bobrow, songs by Tom Lehrer—moderated by math-buff Will Hearst (publishes the SF Examiner).

You'll get right into this with the pizza example, small + medium vs large—it's this century's big math news, now, here, hot. Get yours.

Stock #3009 (Fermat Fest Video, VHS version) . . . \$29.95

Stock #3009F (Fermat Fest Video, PAL version) . . . \$29.95

Engineering and the Mind's Eye

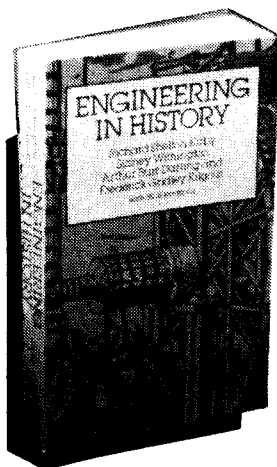
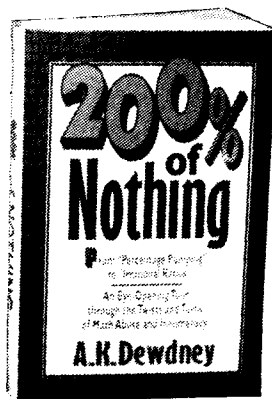
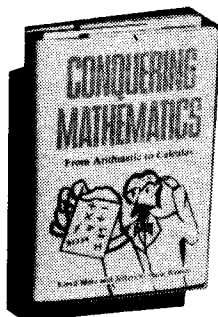
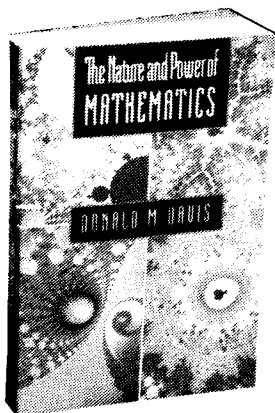
by Eugene Ferguson

" . . . overflowing with ideas and insights . . . a book that will reward many rereadings."—Henry Petroski, Duke University

This probing look at engineering design argues that, despite modern technical advances, good engineering is still as much intuition and nonverbal thinking as it is equations and computation.

Broad and deep, Ferguson (an ME and a historian) traces the strategies of technologists since the Renaissance with fascinating examples and many, many pictorial illustrations of visual thinking.

Stock #2887, Engineering & Mind's Eye, 241p softbound . . . \$12.95



Dead Reckoning calculating without instruments by Ronald Doerfler

Brand
New

If you appreciate numbers and their interrelationships, you can get much personal satisfaction and recreation from the ability to perform mental calculations.

Working in an engineering lab, the author needed the value of $\sin 28^\circ$ to check a test result. Soon after, he required an estimate of the square root of 39. This book is the result of his interest. It shows you useful methods for rapidly and mentally finding products, quotients, roots, trig values and log and exponential values—all to 3 digits and more if desired.

Even if you have no interest in competing with computers you'll learn a great deal about number theory and the art of efficient computer programming—Martin Gardner.

Stock #3243, Dead Reckoning, 182p softbound \$17.95

The Ghost of the Executed Engineer by Loren Graham

Brand
New

Technology and the Fall of the Soviet Union

For starters, there's the life story of a remarkable Russian engineer, Peter Palchinsky, who saw clearly at the beginning of Soviet industrialization the mistakes that were being made and tried to correct them. He was shot.

Then Graham gives an analysis of the next sixty years of Soviet misuse of technology and squandering of human energy.

You'll enjoy brief case studies of Soviet large-scale projects—the Great Dnieper Dam (world's largest), the Magnitogorsk Steel Mill (world's largest), the White Sea Canal, the Baikal-Amur Railway, Chernobyl.

A wonderful read, a cautionary tale about Soviet engineering, but also about engineering in general.

Stock #3235, Ghost of Executed Engrn, 128p hardbound . . . \$22.95

The Internet Companion Plus by LaQuey

Foreword by

Vice President Al Gore

Free
access software
\$39.95 value

Tap into the action! Here's your beginner's start-up kit for global networking.

If you have a PC or Mac with a modem, you can join the Internet now—hook up with access software (3.5" disk included free) to today's new electronic postal service, telephone system and research library.

You'll get clear, nontechnical instruction about Internet's powerful tools—electronic mail, file transfer and remote login—everything you'll need to bring a whole world of information into your home or office. This is going to be fun!

Stock #2986, Internet Companion Plus, 198p softbound . . . \$19.95

Digital SCALE Master Plus

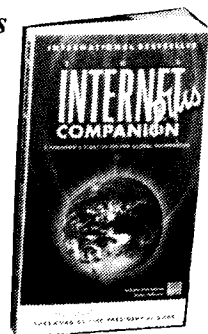
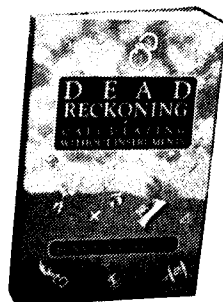
New Model

Calculated Industries

49 different scales built-in: 12 Architectural, 11 Engineering, 12 Metric, 14 Engineering/Map—plus, you can create your own custom scales, for un-scaled plans or reduced prints, even faxed blueprints.

Clicking sound confirms roller entry (user-selectable), balanced for left or right hand use, rolls dimensions Forward or Backward (or subtract with Back-Off Key). Rectangular Areas and Volumes automatically calculated. Push-button counter totals joists, electrical outlets, etc. Comes with User's Guide, Case, long-life Batteries; 1 yr warranty.

Stock #CISM [Digital SCALE Master Plus] List \$100 \$89.95



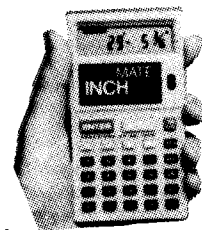
INCH-MATE The affordable Foot/Inch/Fraction Calculator

Indispensable if you use a tape-measure! Instant and accurate.

+ , - , \times , \div , square or square root, in Ft/In/Fraction to 1/16", or Decimal Feet or meters—convert back and forth! Finds diagonal or total rise with Pythagorean theorem. Memory.

USA-engineered with tough ABS case in high visibility yellow. Dust-resistant membrane under color-coded keypad. 1 year warranty.

Stock #DCINCH [Inch-Mate Calculator] List \$40 \$33.95



Construction Master III feet-inch pocket calculator with BIG keys, BIG display

Calculated
Industries

Figures with fractions! Just punch in dimensions—including fractions—and get accurate results immediately.

Accurate! Solve building problems directly in feet, inches and fractions up to 1/64". Enter dimensions right off the tape—or off plans, diagrams and prints.

Save valuable time. Solve complicated calculations such as rise, run, slope, and pitch problems in seconds!

Built-in program solves right angle problems with 100% accuracy.

Get lengths instantly for custom stairs and rafters (common, hip and valley, jack).

Eliminate costly errors caused by inaccurate decimal conversions. Instantly converts between all dimension formats: feet-inch-fraction, decimal, yards, and meters—and determines square and cubic dimensions.

Make fast, accurate lumber estimates in board feet and dollars—for single boards, multiple pieces or the entire project. Wallet included.

Stock #CMIII [Construction Master III] List \$80 \$66.95

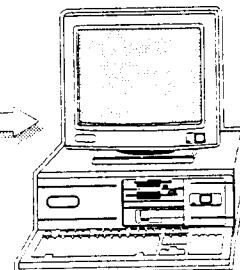
Construction Master III Trig Plus

Most of the functions of CMIII plus full trig functions, including precise angles down to minutes and seconds.

Stock #CMIIITP [CMIII Trig Plus] List \$100 \$78.95

Link your Wizard to a PC running Windows 3.0

IntelliLink



Transfer, translate and reconcile Tel, Schedule, ToDo, Business Card, Memo and Outline between a Sharp Wizard (5/7/8/9000 series as well as YO-600 and YO-610) and your desk PC applications such as Sidekick 2.0, Excel, Organizer, 1-2-3, dBASE, Paradox, AmiPro, Word, WordPerfect, Commence, Current and PackRat.

Requires Serial Interface Cable.

Stock #2758 [IntelliLink 2.5, 3.5" & 5.25"] List \$100 \$89.95

Stock #2925 [OZ-9600 Serial Cable, BSE] \$49.95

PDAs

Wizard OZ9500 Pocket Communicator

SHARP
FROM SHARP MINDS
COME SHARP PRODUCTS™

- integrated FAX software
- write or draw on screen
- touch-screen menus/icons

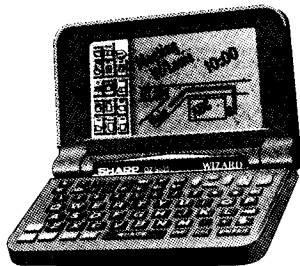
Use new Graphical User Interface (GUI) to enter/access data—just touch the screen with stylus or finger to activate menus or get on-line help.

Large screen and keyboard that is 60% of standard size let you create documents easily—reports, memos, letters, even your business schedule.

Send/receive/print email or FAX with built-in software (modem optional) right from your hotel room. Built-in organizer software including word-processor. Infrared links you to other 9000 Series Wizards, PC or printer.

OZ 9500 has 256K memory (about 2000 Names and Numbers). Software Card Port compatible with most 8000-series IC cards, plus RAM cards for more workspace or back-up. Runs about 2 months on 2 AAA batteries (optional AC adapter #EA11E).

Stock #OZ9500 [Wizard, 256K RAM] List \$590 \$349



Wizard OZ-9600II

the successor to the OZ-9600,
with 3 major technological
improvements

SHARP
FROM SHARP MINDS
COME SHARP PRODUCTS™

- huge 512K bytes of memory—
Sharp's largest to date
- twice as fast as the OZ-9600
- improved screen contrast for overall better viewing



Stock #OZ9600II [Wizard] List \$650 \$399

Stock #2763A [Deluxe Leather Case] \$57.95

Stock #3002 [Utilitarian Belt Holster] \$19.95

Wizard OZ-9000 Series Optional Accessories

Pocket FAX/Modem CEFM1 2400 data/9600 send fax requires CE137T. Series Link for PCs (Windows OZ990W; DOS OZ990D) and OZ 993 Series Link for Macintosh requires either the CEIR2 wireless interface (plus a standard PC cable) or any previous Wizard Link cable. FAX/Modem Adapter CE137T converts Wizard serial port into both a 9-pin RS232C (PC) and 8-pin RS422 (Mac) port to connect to standard PC modem or CEFM1. Wireless Interface CEIR1 goes directly to PC printer (BJ-10, LQ, FX, Proprinter, LaserJet). Wireless Interface CEIR2 connects Wizard to PC or Mac via infrared (for use with Link Options listed above).

Stock #OZ701 (Time/Expense Management) List \$120 . . . \$89.95

Stock #OZ703 (Language Translator) List \$100 \$79.95

Stock #OZ705 (Money-Planner) List \$100 \$84.95

Stock #OZ707 [Scientific Computer, BASIC] List \$130 . . . \$99.95

Stock #OZ715 [Spanish-English Dictionary] List \$110 . . . \$84.95

Stock #OZ717 [Box Jockey, game] List \$50 \$37.95

Stock #OZ783 [RAM Card, 256K] \$134.95

Stock #OZ784 [RAM Card, 512K] List \$250 \$199.95

Stock #OZ8B01 [3-D Worksheet Manager] List \$200 . . . \$154.95

Stock #OZ8B03 [Scientific Calculator] List \$130 \$99.95

Stock #CEFM1 [Fax/Modem, 9500 only] List \$200 \$179.95

Stock #OZ990W [Windows PC Link] List \$90 \$79.95

Stock #OZ990D [DOS PC Link] List \$90 \$79.95

Stock #CE137T [Fax/Modem Adapter, 9500 only] List \$80 . . \$69.95

Stock #CEIR1 [Infrared to printer] \$124.95

Stock #CEIR2 [Infrared Interface to PC] List \$120 . . . \$104.95

Stock #CE315L [Dubbing Cable] \$69.95

Stock #EA11E [AC Adapter] \$5.95

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☎ **FIRMWARE** (503)753-3617

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Repair Service (503)757-2002
Customer Support (208)323-2551
Customer Information (800)752-0900
Mobile Computing Information (800)443-1254
CVD BBS (503)750-4448

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Tech Support (508)371-0310

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(800)426-8026

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Customer Support (800)982-5151

HPCC — Handheld and Portable Computer Club. The independent group for the users of Hewlett-Packard handheld and portable computers; publishes DATAFILE 8 times a year. Direct inquiries to Membership Secretary, Geggs Lodge, Hempton Road, Deddington, Oxfordshire, OX5 4QG, Great Britain.

Series 3a

Psion

*the pocket computer for
word processing and programming*

*Infoworld's #1 palmtop
Best of Comdex, Fall '91
1991 Byte award of distinction*



The new Series 3a is a **double-strength** PDA—it was already the *Editor's Choice*, but now it can **talk**, too!

- Screen **doubles** its width and **doubles** its length—so it can now show you a full page, 80 columns × 17 lines
- Resolution **quadruples**, to CGA, so it gives you full gray-scale graphics, wonderful graphics fonts, and an easy-to-use windows-like graphics interface
- RAM **doubles** size, to 256K, and CPU **doubles** its speed, to 7.7 Mhz, so it does twice as much for you, twice as fast
- Speaker **doubles** in size, so you can do Voice Recording with the *digital audio system* and built-in mike—so when you're away on business, *you can wake up to the sounds of your own children*
- Built-in ROM **more than doubles**, to 1 Meg, to bring you upgrades on every PIM program

■ **built-in Word Processor/Outliner** is *MS WORD* compatible and can format complete, complex documents—bold, italic, flush left or right or justified, headers and footers, auto-numbering of pages, margins and tab settings, line spacings, widow and orphan control, font selection, and more—all with easy-to-use pull-down menus and *style sheets*.

Now has full-page *Print Preview* (to view entire document), new fonts so you can see the full paper width and password protection with date encryption. 18 printer drivers.

■ **built-in Graphic Programming Language**—OPL/w is BASIC-like and structured, has more than 200 statements, commands and functions, plus it handles graphics, windows and menu control. Programs are compiled and run from the program editor and can be added to the main display system with their own icons, just like other the applications.

■ **built-in Personal Info Management applications**—Database for name/address/phone records (or whatever; it's flexible) by the thousands—Agenda with day-view appointments and alarms, week-view and calendar to 2049, plus things-to-do manager. Time and Alarm with 12 or 24 hour clock, snooze or cancel—World Information with dialing codes for 400 cities in 150 countries (plus edit or add); displays map with distance between home and target city; sunrise/sunset and 4 zones of Daylight Savings.

Now has *hot-keys* for 6 viewing modes (day, week, year and anniversary screens, plus full calendar year). You can customize and view multiple To-Do lists at once on screen.

■ **built-in Spreadsheet**—1-2-3 compatible, and you can now view an entire 12 month/year at a glance. Password and encryption.

■ **built-in Calculator with Scientific Functions and Math Operators**—10 memories, unlimited parentheses, general and fix point, exponential and hexadecimal formats—complete calculations can be edited for what-if recalculations—or you can run your own OPL procedures.

■ **built-in Connectivity and Communications**—loudspeaker with DTMF autodialing, peizzo buzzer; Epson and IBM Proprinter printer drivers (and compatibles)

■ **Specs**—2 proprietary card slots, for memory or additional software. Runs for months on 2 AA cells. Pocket-sized, weighs 11 oz; 1 yr warranty. Optional Serial Links include complete 3a-programming for your desk unit; Serial Printer and Modem Adapters require a Link; all Links should be used with AC Adapter.

Stock #2963 [Series 3a Pocket PC]	List \$595	\$419
Stock #2626 [128K Flash Memory Card]	List \$80	\$59.95
Stock #2627 [256K Flash Memory Card]	List \$140	\$105.95
Stock #2628 [512K Flash Memory Card]	List \$240	\$179.95
Stock #2629 [1M Flash Memory Card]	List \$400	\$299.95
Stock #2630 [128K RAM Memory Card]	List \$140	\$105.95
Stock #2631 [512K RAM Memory Card]	List \$400	\$299.95
Stock #2763 [Delux Leather Organizer]		\$57.95
Stock #2964 [Serial PC Link]	List \$120	\$92.95
Stock #2965 [Serial Mac Link]	List \$120	\$92.95
Stock #2966 [Parallel Printer Link]	List \$60	\$45.95
Stock #2967 [Serial Printer Adapter]	List \$25	\$19.95
Stock #2968 [Modem Adapter]	List \$25	\$19.95
Stock #2969 [AC Adapter]	List \$20	\$17.95

Professional Finance—advanced financial routines for business: cash flow, % breakdown, interest, statistics, forecasting (emulates HP financial calculator).

Stock #2801 (Professional Finance, card) List \$100 \$89.95

Chess—worldwide award-winning chess game with full 3D graphics.

Stock #2802 (Chess, card) List \$100 \$89.95

Stock #2970 (Spell-Checker & Thesaurus) List \$100 \$89.95

Stock #2971 (Psion Games 1) List \$100 \$89.95

Stock #2972, First Steps Programming Guide \$19.95

Stock #2800 [Spreadsheet Card for Series 3] \$84.95

Thank you for your order!

HP 200LX

- now with LapLink PC connectivity software
- 1 or 2 MB RAM and expandable memory
- the most portable workplace
- cc:Mail Mobile and data communications
- \$50 savings now on 2MB version
- the best PDA, says InfoWorld
- complete organizer software
- new tilted keys
- global passwords
- Lotus 1-2-3 rel 2.4
- runs your PC programs with DOS 5.0
- up-to-the-minute rich green color



Now with Pocket Quicken



HP 200LX—the specs

HP 200LX Palmtop PC includes:

- User's Guide
- Quick Start Guide
- Two AA and one CR2032 batteries
- Engravable personal nameplate

Software built into ROM

- Pocket Quicken
- cc:Mail Mobile
- Data Communications
- Lotus 1-2-3 Release 2.4
- MS-DOS 5.0 • LapLink
- Appointment Book • Phone Book
- HP financial calculator
- Memo editor with outliner
- Notetaker • Database • Filer
- World time and Stopwatch
- Application manager
- System macros
- Setup utility

Physical Specifications

- 16 x 8.64 x 2.54 cm (6.3 x 3.4 x 1 in)
- 312 g (11 oz) with batteries

Optional PC-compatible Software

- The HP 200LX will run a wide variety of DOS software. (Software must be DOS-based, CGA screen compatible, and fit available memory.)

Memory

- 3-MB ROM • 1 or 2 MB RAM
- PCMCIA version 2.0, Type II

Industry-standard PC Architecture and Central Processing Unit (CPU)

- IBM PC architecture
- Intel 80C186 CPU running at 7.91 MHz

Display

- CGA-compatible FTN liquid crystal
- 80 columns by 25 rows; 640 x 200 pixels
- Zoom feature

Keyboard Layout

- Familiar typewriter-like QWERTY layout
- Separate numeric keypad
- 10 function keys
- 8 application access keys

Input/Output

- Built-in 9-wire serial interface for connection to RS-232 devices
- Built-in infrared transmitter/receiver up to 115K bps for HP 200LX to HP 200LX and other wireless communication
- Built-in printer drivers supporting these serial printer types: HP LaserJet, Epson FX-80, IBM ProPrinter
- PCMCIA version 2.0, Type II plug-in card slot for running PC software and expanding I/O memory; optional HP 5 MB, 10 MB and 20 MB flash disk cards available
- Optional HP F1021B Connectivity Pack for file transfer between an HP 200LX and a DOS-compatible PC

Power

- Two 1.5-V AA main batteries
- One 3-V CR2032 coin cell backup battery
- Optional 1.5-V AA rechargeable batteries
- Optional adapter: HP F1011A available in worldwide configurations for powering unit and recharging NiCd batteries



Manage your world with the world's most powerful palmtop PC! Carry your critical business and personal information as easily as you carry your wallet. The software you already know comes built-in with the only pocket PC that's fully DOS compatible.

Use PC power to organize your personal and business expenses on the go. Check your calendar, or let the appointment book keep you on schedule. Graph your latest sales figures or edit a quick memo. Open built-in DOS applications with a single keystroke, or add your favorite DOS programs from your desktop PC.

Advanced communication features keep you in touch everywhere. Plug in your HP StarLink card to pick up notification of phone and fax messages from home or the office.

You'll stay in charge with the most complete personal information management software on the market.

You simply touch one of 8 special keys to access this software—then switch to another program with one key-touch. *These 8 special keys will make the HP 200LX your favorite computer at any size! at any price!*



Stay in control of personal and business finances anywhere with Pocket Quicken. Enter transactions from checking, savings, credit card, and cash accounts using convenient on-screen forms. Keep on top of current balances and reconcile accounts with your bank statements. You can even organize expenses by category and create summaries for business reimbursements or tax records.

Manage your finances with Quicken all these ways:

- Enter and edit transactions in checking, savings, credit card, and cash accounts
- Review account balances and registers
- Create and print financial reports
- Share data with desktop versions of Quicken



It's a portable electronic mailbox. You'll keep in touch with a built-in cc:Mail Mobile for the HP 200LX. With a modem, check your cc:Mail post office and Exchange messages with any cc:Mail user in the world. Handle messages with cc:Mail Remote Inbox, Outbox and Saved Message folders.

Receive news, weather, and stock reports automatically. Using HP 200LX terminal emulation, built-in data communications software, and a modem, access e-mail and information services such as Compuserve.

With HP 200LX communications accessories, connect with devices like the Skystream wireless messaging receiver, modems, and global positioning systems.

Here's how you'll use built-in cc:Mail and Data Communications:

- Transfer messages or files via a modem
- VT-100, ANSI and tty terminal emulation
- Kermit, ASCII text, and X, Y, & Z MODEM file transfer capability
- File capture capability saves data from information services

123

Don't leave the office without it! Now you can download spreadsheets from the big PC to your HP 200LX. Because this is real Lotus 1-2-3.

Take that sales report, budget or investment portfolio right along with you in your pocket. Update as

you talk. See the results instantly. Zoom them. Show them around. Transfer them back to your PC when you are in the office again.

If you need to leave Lotus, perhaps to check your appointments or to find a phone number, just press another blue key. When you're ready to use Lotus again, touch the blue 1-2-3 key and you'll be back in your spreadsheet, exactly where you left off. You can also copy part of a worksheet and move it to where ever you want it, maybe into a memo.

Here are some other things you can do with this powerful version 2.4 of Lotus:

- Large worksheets—cells available from 1 to 256 columns and 1 to 8,192 rows
- Graphics • Database commands
- Macro creation and execution
- File linkage
- @ functions from @ABS to @YEAR



Sure, your HP 200LX will do the same timely chores that a Wizard or a BOSS will... to help you with appointments, schedules and priorities.

But the HP 200LX is itself a PC, so it has a big Appointment Book program, with all the frills of an office machine—plus the big memory to match.

You can set your alarms to go off, say, 15 minutes in advance. Set repeating appointments once and they'll show up as specified, weekly, monthly, or yearly.

Can't remember details from a note you saved? No problem. Enter a word or short phrase; search for it.

Here's how you use your appointment book:

- Week-at-a-glance, month-at-a-glance, and six-month calendar
- Daily schedule with appointment alarms
- Daily, weekly, monthly, and yearly repeating appointments and events
- To-do list with automatic carryover of past-due items
- Archive feature for appointments and lists
- Local and worldwide time for over 450 cities
- World map and custom city list
- Timer and stopwatch



Your HP 200LX will have all the goodies that go with a big PC Phone Book and Exchange program done by Lotus, plus its giant RAM memory

capacity. Here's what you can do with it:

- Alphabetical list of names and numbers
- Contact information cards
- Search and sort on any field
- Custom database capability
- Create multiple or subset phone books



You won't want to type a book into your HP 200LX—that's what desk PC's and secretaries are for. But you could edit a book on your 200, by

using its Memo Editor, which is a small word-processor. Or store reference information. Or take a quick note on the spot. Here's how:

- Text entry and editing including block cut/copy/paste, search and replace, bold, and underline
- ASCII file format for reading and editing
- Basic outliner with promote and demote



Do simple arithmetic simply—either Algebraic or RPN style—you decide.

But your HP 200LX will have the latest, most sophisticated Financial Calculator, one that only HP

could give you. Time Value of Money answers and "what-if" recalculations. Backsolving for any variable in your equation—and you can use this feature to compute values in worksheet cells, automatically!

Note the currency conversions and the quick plotting and root-finding in this list of powerful features:

- General and technical math functions
- Time-value-of-money calculations
- HP Solve equation-writing capability plus equation plotting
- Links to Lotus 1-2-3 including:
 - Backsolve to a desired result
 - Store/recall numbers to a worksheet
 - Send amortization schedule to a worksheet
- Currency and unit conversions
- Choice of algebraic or RPN data entry
- Cash flow analyzes (IRR, NPV) and statistics functions, both with plotting capability



Here's the quick power that touching the Filer button gets you:

- Create, rename, copy, view, and move files and directories
- RAM-disk backup
- Plug-in RAM card formatting
- DOS program execution
- Split-screen fuke transfer feature

That's what the 8 wonderful keys do, each by itself. But that's not all—these applications fit together. This means that you can jump from one to another at will, and even take data along with you. It means that you won't have to learn different schemes of commands for each piece of software, because these are consistent, as alike as Lotus programming could make them.

Look at these consistency features:

- Press a single key to access any of the 8 built-in applications
- Press a single key to switch to another application without having to close the first one
- Find your way around an application easily, guided by menu keys and softkeys
- Access Help from any application by pressing F1
- Move information among applications by copying it to a clipboard and pasting it where you need it
- Save time by creating custom user keys to recall specific sequences of keystrokes that you use often
- Read and write to flash disk cards

There's more powerful, built-in software, and it's easy to access with a single keystroke:

Notetaker

- Create, save and edit short notes
- Database of notes, indexed by title
- Title, categorize, and search capabilities

Database

- Create and modify database templates
- Add, delete, and edit records
- Search by field or text

World Time and Stopwatch

- Local and worldwide time for over 450 cities
- World map custom city list
- Timer and stopwatch

Application Manager

- Manage all HP 200LX system applications, whether built-in, plug-in, or RAM-based
- Application key assignment, application RAM use, status, current drive, and files

Setup Utility

- Display contrast, memory allocation, and beeper volume
- Printer and comm port configuration
- Battery status and NiCd recharging

palmtops



When being on the move is part of being on the job, carry all your critical information with you as conveniently as you carry your wallet.

still undecided?

Let's recap the facts—this little gem has Hewlett-Packard design excellence in its logical architecture and in its calculations. It has MS-DOS, so it's fully PC-compatible. Quicken will manage your finances. cc:Mail Mobile is built-in, so you can carry your electronic mailbox wherever you go. And it has Lotus 1-2-3 and Lotus Development's programming of its applications, so they all have similar, consistent command structures, and so you can transfer data and results back and forth between them.

- Lotus 1-2-3
- Phone book
- Memo editor
- Appointment book
- 3.7 times faster than an XT
- HP financial calculator
- Quicken
- Datacomm
- Filer
- 1 or 2 MB RAM
- MS-DOS 5.0

Is that reason enough to buy it now?

You can see the excellence of its HP machine design in its keyboard, its Input/Output capabilities, and its case (not to mention its robust reliability).

- Crisp 80 column x 25-row display
- Serial and infrared interfaces
- Familiar QWERTY keyboard
- Industry-standard card slot
- Separate numeric keypad
- Protective clamshell design
- One-key access to applications
- Easy-to-carry size and weight

Is that why you have decided to get yourself an HP 200LX, now? This is exactly the way you've always known computers should be. So it's no wonder that the HP 200LX will be your favorite computer, at any size, at any weight, at any price!

It's an always-with-you extension of your desk-bound computers, so anywhere, anytime, you can

- find important phone numbers
- calculate loan payments
- convert currencies
- check the time around the globe
- edit your letters and reports
- dial up information services

- explore "what-ifs" with your spreadsheets
- track your appointments and assignments

This computer is personal and exciting — your power tool for the '90s. Best of all, it weighs just 11 ounces, fits into a pocket and costs only a fraction of what a laptop or desktop PC does.

which model fits your needs?

You get your choice of two models, the HP 200LX and the HP 200LX2MB. There's just one difference, but it's a big one—one has 1MB of RAM memory, while the other has a full 2 Megabytes of internal RAM. Having the extra memory is like having a second card slot with a 1MB RAM card permanently installed in it (and everyone seems to want more memory).

You'll have EduCALC's 30-day warranty, for a no-questions credit or refund. You can try out your HP 200 for a month, put it through its paces and make sure it is exactly what you need—there is no risk, because we want you to be delighted.

Live technical support is available 5 am - 5 pm (Pacific time) Monday - Friday. You pay only for the call. (503)757-2004.

Express Exchange Coverage for 1 year—so if your 200 fails you merely call for a replacement, which arrives next day! Then just send back the old unit (full 3-year coverage optional).

Offer includes PC, Quick Start Guide, User's Guide, nameplate and alkaline batteries; 1 yr Express Exchange warranty.

Stock #HP200LX1MB [Palmtop PC] . \$499
Stock #HP200LX2MB [Palmtop PC] . \$679
Stock #H5465A [Expr Exch - 3 yr] . \$85

We still have a few new HP 100s in stock.
Stock #100LX1MB [Palmtop] . . . \$479

your name engraved - free

We will personalize your name or initials free on a small plate that you can neatly adhere in a countersunk space on the back of your new 100. Just include Stock #95CNP and we will include everything you need to get your FREE engraved name plate. You'll be limited to 16 characters and your imagination.

Stock #95CNP [Nameplate]Free

Trade In Program

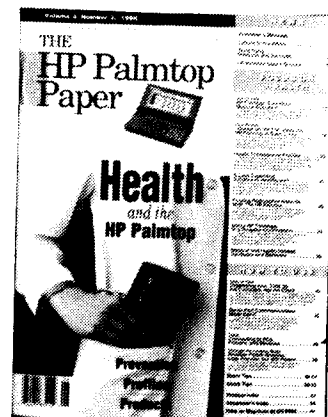
Save even more—

TRADE IN your used HP 100LX 1MB or 2MB. Just send it to us, insured, in working order, with all its Manuals. Take CRedit on your Order — \$170 for a 100LX 1MB and \$250 CRedit for an HP 100LX 2MB. Put the order and your check right in the box.

If you prefer to keep your old instrument until your new HP 200 arrives, just send it to us up to 45 days later, along with its Owner's Manual and a copy of the sales receipt for your new machine —we'll send you your refund right away.

Subscribe now to
The HP Palmtop Paper
for HP 95/100/200

Thaddeus
Computing



- Be an insider
- Be an expert
- Be fully up-to-date

You'll find out about the hidden features of your 95/100/200—how to access secret utilities—even hidden games!

You'll have how-to tips and tricks that make your work easier—solve your problems—even give you impressive new powers!

You'll read comparative brand-by-brand surveys of the software and programming languages that work best in your 95/100/200—plus consumer's advice on peripherals like RAM cards and drives.

Think of it as a giant (50 pages average) supplement to your EduCALC catalog—a new issue will come every other month, packed with the latest information—focused right where you want it, on your HP 95/100/200.

Extra BONUS . . . each year's subscription comes with a copy of the Subscriber Disk for that year—the 1992 disk contains 34 free programs (no shareware), fully documented and easy to use utilities, games, templates and programmer's aids (8 of these are system-compliant).

FREE Issue . . . this subscription starts with the current issue, and you'll also get an extra back-issue—that makes 7 issues in all, plus your bonus Subscriber's Disk of programs.

(Allow 4 to 6 weeks for your subscription to start.)

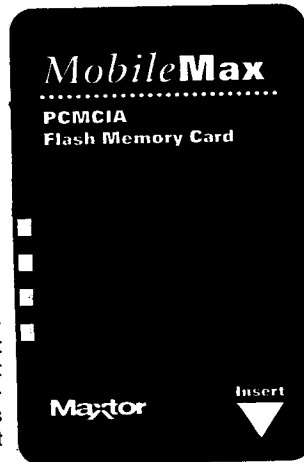
Stock #2676, 1 year to U.S. address . . \$39
Stock #2839, 1 yr air to Canada/Mexico \$45
Stock #2840, 1 yr air, foreign \$57

here's where you find . . .

accessories	10
cables / interfaces	13
peripherals	15
software	19
programming aids	23

accessories

Plug-in Flash Cards the hot new high-capacity memory for your palmtop, laptop & desktop



Better than a hard disk on a card—with flash memory chips and a built-in solid-state controller. It slides into the PCMCIA Type II slot of your instrument and is 100% MS-DOS compatible.

You can store many really big programs in one, and plenty of data, just like a hard disk. But you can remove it when you're done—lock it up for security, give it to a friend for use in his PCMCIA-equipped computer, or mail it back to your office.

No back-up is required—**this is a back-up!** Flash memory is non-volatile so there are **no batteries**. This means no replacements for you. It also means **super reliability**—up to 100 years!

Your flash card will be up to **20 times faster** than a hard disk drive, and it will consume **100 times less power**. It has no moving parts, so it's **extremely durable** and can take heavy shocks or vibration even while it's operating.

Some flash cards come with built-in data-compression routines (Stacker LZS technology). These cards are marked for 2:1 compression ratios in our descriptions, but spreadsheet files may compress at a more than 3:1 ratio while some DOS files may have only a 1:1 ratio. This data compression is transparent to you—it's handled in real time, and flash cards are so fast that you probably won't notice any difference in speed. Note: all specified capacities will be reduced somewhat by formatting

for HP 95/100/200/OmniBook



For Type II or III slots, HP 100/200 or OmniBook. HP 95 requires a PC and connectivity kit for installation; 1-yr warranty.

Stock #F1018A [5/10MB for HP 95 only] List \$525	\$359
Stock #F1012A [5/10MB compr. FlashCard]	\$364
Stock #F1013A [10/20MB compr. FlashCard]	\$579
Stock #F1014A [20/40MB compr. FlashCard]	\$959

Maxtor®

Fits in a Type I, II or III slot (PCMCIA 2.10 protocol). True FLASH File System uses only 22K system memory; automatic installation (no connectivity kit required) in all DOS or Windows environments; allows HP 95 to use 19.8 MB; 200 nsec access time; up to 8 times faster writes. Up to 9 times less current draw. 1 yr warranty.

Stock #3242 [1/2 MB Maxtor Flash]	\$99
Stock #3236 [2/4 MB Maxtor Flash]	\$165
Stock #3237 [4/8 MB Maxtor Flash]	\$269
Stock #3238 [8/16 MB Maxtor Flash]	\$485
Stock #3239 [12/24 MB Maxtor Flash]	\$619
Stock #3240 [16/32 MB Maxtor Flash]	\$749
Stock #3241 [20/40 MB Maxtor Flash]	\$899

EPSON

Fits in Type II or III slots. Epson reliability, with 2 yr warranty. HP 95 requires a PC and Connectivity Pack for installation.

Stock #2917 [2.5 MB/5 MB compr Epson Flash]	\$345
Stock #2918 [5 MB/10 MB compr Epson Flash]	\$349
Stock #2919 [10 MB/20 MB compr Epson Flash]	\$539
Stock #2920 [20 MB/40 MB compr Epson Flash]	\$949
Stock #3034 [40 MB/80 MB compr Epson Flash]	\$1689

the Leather Desk our best organizer for the executive's HP Palmtop

EduCALC



Sumptuous black napa leather coddles your palmtop, with extra padding for instrument protection.

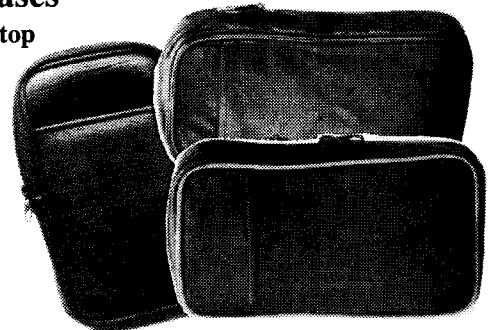
Software and memory cards fit into 6 slots, 2 pockets hold notes and diary. There's a zippered compartment for important documents and a loop for your pen.

It feels soft and rich in your hand, but there's a detachable carry strap, too. Plastic tray grips your computer; 8 1/4 x 5 x 1 3/4 inches outside.

Stock #2764 [HP Leather Desk]	\$64.95
Stock #LT1 [extra plastic tray]	\$7

Carrying Cases for the HP Palmtop

Look good being safe! This handsome zippered pouch will protect your HP Palmtop from dust, dirt and spills as well as scratches, knocks, and bruises—just what's needed for a go-everywhere computer.



Handy outside pocket plus inside pocket for IC cards, etc. Naugahyde model is tough-skinned, has belt loop. Nylon model is made of washable, waterproof fabric. Leather model is soft and elegant.

Stock #2665 [Naugahyde Carry Case, black] List \$30	\$23.95
Stock #2519 [Nylon Carry Case, black] List \$25	\$19.95
Stock #2520 [Leather Carry Case, black] List \$40	\$27.95

palmtops

accessories continued

At last, the perfect
Computer Briefcase—
a black leather beauty
for your palmtop/laptop



You'll have a place for everything in this truly beautiful briefcase—your palmtop and/or subnotebook PC, memory and software cards, modem, cables, books . . . the works.

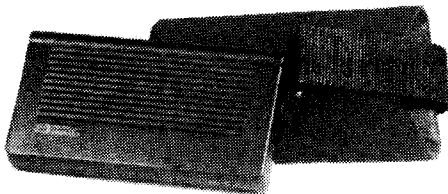
Our Executive version has 2 discrete pockets on the outside (for tickets, etc.), and its springy handle detaches with brass clips. Inside there is one big pocket (for documents or books) and a couple of pen loops. But everywhere there are velcro patches, so you can arrange things exactly as you want them. Leather accessories include a PCMCIA card pouch and a pen case (also for batteries, paperclips, etc.). Velcro stickers are included to attach your PC, pager, . . . and 8 velcro straps to hold your cellular phone, cables, . . . , whatever.

Deluxe Accessory Kit contains Post-it folder, business-card holder, passport/cable/ticket wallet and shoulder strap (brass clips), all made of the same handsome black leather and built to stay in place for you.

Stock #2983 [Executive Leather Briefcase] \$119
Stock #2984 [Deluxe Accessory Kit] \$39

The Pouch for your HP 48 or Palmtop

The Pouch

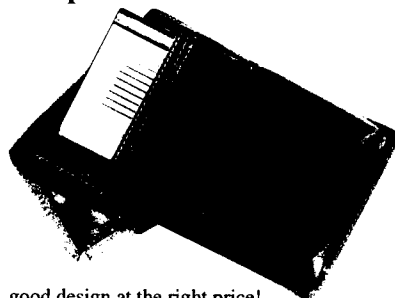


Are you a utilitarian? Here's a no-frills pouch for the simple life—made of bouncy neoprene foam and nylon, with belt-loop and velcro closure.

Stock #2736 [Instrument Pouch] \$19.95
Stock #3047 [Omni Pouch] for OmniBook \$29.95

The Belt Holster for your HP 48 or HP Palmtop

Ripoffs



The very best belt clip we've ever seen, on a double-stitched black nylon holster with velcro closure, interior card pocket and foam padding—good design at the right price!

Stock #3000 [Belt Holster] \$14.95

To find batteries and chargers
for your palmtop, see page 30

Plug-in RAM Cards

for Palmtop
or OmniBook



- store giant spreadsheets
- run huge programs

Each card has its own long-lasting battery—it can be stored or mailed without losing the data or programs you've filed on it.

These cards satisfy PCMCIA specifications—they fit in the HP 95, 100 or 200, the Poqet PC, the Sharp PC-3000 and the NEC Ultralite.

Some RAM cards come with built-in data-compression routines (Stacker LZS technology). These cards are marked for 2:1 compression ratios in our descriptions, but spreadsheet files may compress at a more than 3:1 ratio while some DOS files may have only a 1:1 ratio. This data compression is transparent to you—it's handled in real time, and RAM cards are so fast that you probably won't notice any difference in speed.



- simply the best!

Stock #F1003A [512K RAM card] List \$300 \$249.95

PreMax

Dual lithium batteries that beep you when they're low. 1 yr warranty.

Stock #2987 [512K PreMax RAM Card] \$99
Stock #2988 [1 MB PreMax RAM Card] \$139
Stock #2989 [2 MB PreMax RAM Card] \$249

EPSON

• from the world's largest manufacturer of memory cards—these use latest low power CMOS SRAM and include a custom system power controller that automatically lowers power to 0.25 ma standby. Our Epson cards have a secondary lithium battery so you can replace the card battery while card is out of computer.

Stock #2767 [512K Epson RAM Card] \$119
Stock #2768 [1MB Epson RAM Card] \$209
Stock #2769 [2MB Epson RAM Card] \$334

Chaplet

• Ego RAM cards are preformatted, preloaded with software utilities. 2 yr warranty with free battery replacement for 5 years.

Stock #3007 [1MB Ego RAM card] \$169
Stock #3008 [2MB Ego RAM card] \$289



• DoubleCards not only compress data on card, but also have an extra DoubleRAM program that doubles your palmtop's RAM capacity by compression.

Cards are preformatted and loaded with free utility software (a 3.5" disk is also included with duplicate program). Free card batteries for 5 years, too; reassuring lifetime warranty.

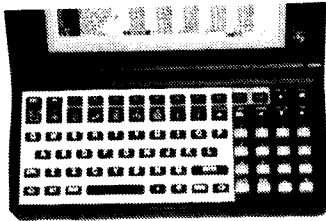
Stock #2595 [512K/1MB compressed ACE DoubleCard] . \$123
Stock #2596 [1MB/2MB compressed ACE DoubleCard] . \$189
Stock #2598 [2MB/4MB compressed ACE DoubleCard] . \$319

accessories continued

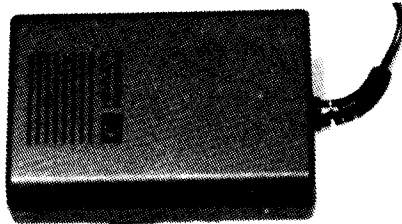
Hot Key Overlay for HP Palmtop

Girard

Label the keys the way you want them—you may even erase them later.
Stock #2921 [Hot Key Overlay] \$3.95



AC Adapter for your HP Palmtop



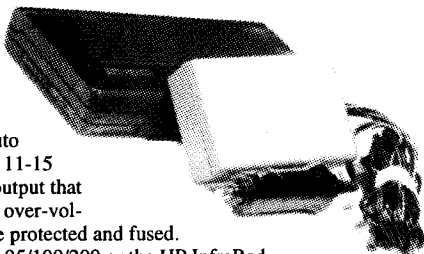
Input 100-240 VAC;
output 12VDC, 0.75A.
Power for HP 95, HP 100,
HP 200 or HP 82240B Printer. Recharges NiCds in your HP 100.
Stock #F1011A [AC Adapter for USA, Canada] List \$40 . . . \$34.95
Stock #F1011ABB [AC Adapter for Europe] \$34.95
Stock #F1011ABG [AC Adapter for Australia] \$34.95
Stock #F1011ABU [AC Adapter for the U.K.] \$34.95
Stock #F1011ABQ [AC Adapter for So. Africa] \$34.95

Cigarette-lighter Adapters for the HP 95/100/OmniBook and portable printers

EduCALC

Just plug it in—standard automotive plug accepts varying 11-15 VDC input. You'll have an output that is reverse-voltage protected, over-voltage protected, surge-voltage protected and fused.

Our #2783 powers the HP 95/100/200 or the HP InfraRed printer. #2862 powers HP 95/100/200, IR printer, or the Canon Bubble Jet/HP DeskJet printers. #2863 powers HP 95, IR printer or the Kodak Diconix printer. #3029 powers the OmniBook, #3030 for the HP 95/100/200 in an aircraft/marine 28VDC application.
Stock #2862 [Cigarette-lighter Adapter] List \$45 \$39.95
Stock #2863 [Cigarette-lighter Adapter] List \$45 \$39.95
Stock #2783 [Cigarette-lighter Adapter] List \$40 \$34.95
Stock #3029 [Cigarette-lighter Adapter for OmniBook] . . . \$41.95
Stock #3030 [Cigarette-lighter Adapter for Aviators] \$41.95

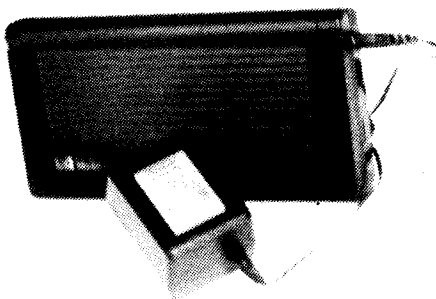


Econo Adapter

Brand New

Smaller, lighter and lower cost than the HP version, but limited to use in the USA or other countries with 110 volt, 60 Hz input. UL and CSA listed with a 90 day warranty.

Stock #3045 (AC Adapter) \$15.95



cables / interfaces

How to hook up your HP 100/200

All you'll need is HP's Connectivity Pack (#F1021B)—it connects to PCs, printers, modems and other peripherals. With the Connectivity Pack you'll also be able to run HP 100/200 applications, like Appointment Book, on your desktop PC.

How to hook up your HP 95

It's simple to connect to a PC—you'll need a cable (we offer several below) and some software which includes a standard datacomm protocol (such as Kermit or XMODEM).

But suppose you want to be able to hook up to printers and modems as well? If your cable is EduCALC's #2449 or CMT's #2342 (or you're using JetEye) you should have no problem. But if it is our #2556, #2609 or #2588 or HP's Serial Interface Cable, you will require their Adapter Kit #F1023A also.

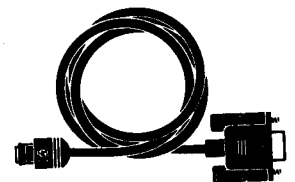
Connectivity Pack HP100/200 to desktop PCs



Seamlessly transfer files and worksheets directly or via modem, with a convenient split-screen filer interface. Includes desktop PC versions of most of the built-in PIM applications of the 100/200 (and they are fast). Also has 3 other PC programs—one merges, synchronizes or translates Phone Book or Appointment Book files, and another lets your palmtop treat the PC's drives as its own. Now there is also LapLink, the popular PC connectivity software. You'll also have the ability to synchronize Pocket Quicken with desktop DOS or Windows Quicken data files.

Includes a cable and adapters to connect your HP 100/200 to a 9- or 25-pin PC serial port, a modem or a printer. PC must have 286 processor and EGA or better; software will run as a DOS application under Windows. Software only is the upgrade path for #F1021A Connectivity Pack owners.

Stock #F1021B [Connectivity Pack, 3.5" & 5.25"] List \$125 \$109.95
Stock #F1021S [Connectivity Software only] \$64.95
Stock #F1015A [95/100/200 to DB 9-pin Serial Cable, 6'] . . \$24.95



Connect your 95/100/200 to your PC

this software runs with the following applications under Windows 3.0:

- IBM Current including mainframe PROFS
- Borland Sidekick 2.0 (under Windows 3.0)
- Asymetrix Toolbook and Daybook, with memos
- MS Word for Windows & AmiPro & Excel
- Paradox database (maps PHONE and MEMO fields)
- Q + E support for dBASE & SQL Server
- Windows 3.0 Clipboard • Lotus 1-2-3 for Windows



IntelliLink

Direct imports/exports to/from Windows applications at the field level with a few simple clicks of the mouse! Requires HP 95/100 with Serial Cable and PC running MS Windows 3.0 (IntelliLink is HP New Wave aware).

Stock #2517A (IntelliLink 3.0, 5.25" & 3.5") List \$100 . . . \$89.95

Serial Cables

- Engineers
- Instrument Makers
- Hobbyists

Connect your HP 95/100/200 to anything you want! Six foot cable has 4-line serial connector (2601) or 10-line (3003) molded onto one end, with the other end unterminated (just 4 wires for you to solder).

You can also order this cable terminated with a female 9-pin (computer RS-232) connector and built-in strain relief.

Stock #2601 [Unterminated Serial Cable - 95LX, 6'] \$15.95
Stock #3003 [Unterminated Serial Cable - 100/200LX] . . . \$16.95
Stock #2609 [4- to 9-pin Serial Cable, 6'] \$22.95
Stock #2793 [HP 100/200 to 9-pin Serial Cable] \$22.95

palmtops

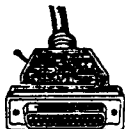
cables / interfaces continued

Dual-Purpose HP 95 Serial Cable

Switches so it can connect to computer or to printer—eliminates adapter and NULL modem. Elegant, lightweight, 6' long.

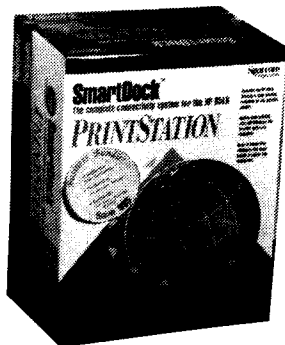
Stock #2449 [Dual Purpose Serial Cable] \$36.95

EduCALC



SmartDock docking-station connectivity for your HP 95, HP 100 or HP 200

Sparcom
CORPORATION



- quickly up/download to desk units
- easily FAX your memos
- conveniently send/receive e-mail

When you click the Palmtop into your docking station's elegant contours, its 4-pin serial port and AC adapter port align automatically—simple, all at once, without unsightly cables or plugs (an AC adapter and PC serial cable are included with each SmartDock along with a 90 day warranty).

- **Station95 or 100** instantly connects your Palmtop to a PC so you eliminate time-consuming hook-up procedures and prevent battery drain.
- **MacStation 95** instantly connects your 95 to your Macintosh computer.
- **PrintStation 95 or 100** connects your Palmtop to any parallel printer, as well as to a PC — has built-in series/parallel converter, comes with DOS/Windows connecting software on 3.5" disk.
- **MailStation 100 and ComStation 95** have it all! Built-in modem accesses Internet, CompuServe, ATT-Mail, MCI Mail, Prodigy and other e-mail services—PSILink and DOS/Windows connectivity software included on 3.5" disk. Connect to a PC with serial cable and Data Exchange software. Also, connect to a parallel printer with built-in series-parallel converter. ComStation 95 includes system-compliant Fax Manager software to FAX any text file, and rechargeable batteries (not with MailStation 100).

Stock #2588 [Station95] List \$60 \$49.95

Stock #2737 [Sta95 + Pod Pal (#2684) + Games (#2687)] . . . \$89.95

Stock #2756 [MacStation 95] List \$80 \$69.95

Get your PrintStation95 or ComStation95 now and you'll save many dollars off our already discounted prices. But, best of all, you'll also get (with either docking station) two free programs—Podium Pal (#2684) for presentations and Games 95 (#2687) for fun (see the Palmtop Software Section in this catalog for complete software descriptions).

Stock #3004 [PrintStation95, #2684 & #2687] List \$280 . . . \$149

Stock #3005 [ComStation95, #2684 & #2687] List \$510 . . . \$249

Station 100 is available with or without DataExchange software (DOS or Windows) included on 3.5" disk (same as for PrintStation100).

Stock #3022 [Station 100] List \$80 \$74.95

Stock #3021 [Station100 + software] List \$100 \$89.95

Stock #3023 [PrintStation100 + software] List \$200 . . . \$169.95

Stock #3228 [MailStation100 + software] List \$250 . . . \$229.95

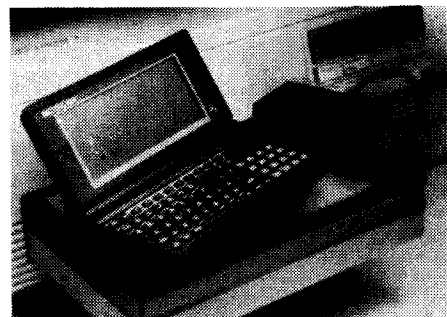
*EduCALC has lots of
items you can't find in a store*

JetEye InfraRed to LaserJet Printer Interface

for the HP 95/100/200/OmniBook

**Extended
Systems®**

A point and shoot printer interface you can install in seconds without power cords, cable changes or printer reconfigurations. You merely insert its plug between your printer cable and LaserJet — your one or many PCs will still print as usual.



Model #ESI9500A works with HP 95LX and also the HP 48 series. #ESI9510A is for the HP 100/200LX or the OmniBook.

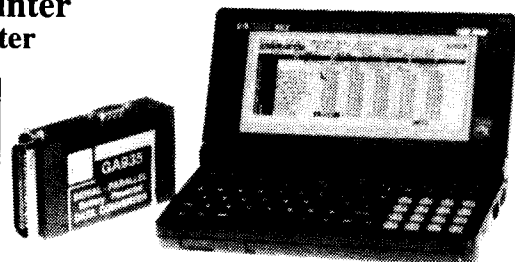
Supports LaserJet, DeskJet and any other parallel (Centronics) printer. Multiple-page printing requires driver software (included) for your computer and optional Serial Interface on your PC to install it. InfraRed reception distance 8 inches. 2 yr warranty.

Stock #ESI9500A [JetEye for HP 95] List \$129 \$99.95

Stock #ESI9510A [JetEye for HP 100/200] List \$159 . . . \$139.95

Battery-powered HP 95/100/200 to Parallel Printer Data Converter

**Greenwich
Instruments**



Get beautiful printout — now your HP 95/100/200 can drive a portable parallel printer (such as the Canon BJ-10e Bubblejet).

You connect this serial-to-parallel converter to any PC via a serial cable, and send its output to any parallel printer via a 'Centronics' 36-lead cable. Up to 250 hours on one 9v battery (not included).

Stock #GA935 [Serial/Parallel Converter] List \$100 \$79.95

Stock #9V [Alkaline Battery] \$2.80

The Parallel Port connects HP 48/95/100/200 to parallel printer or peripheral BYTE User's Choice Award 1992

-bse-

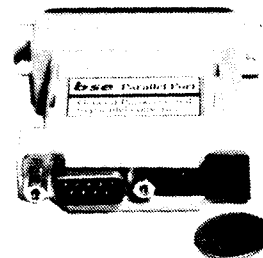
Just plug in this tiny (2" long, less than 1 oz) converter to your serial cable — it's self-powered and bi-directional.

No switches, no configuration or software drivers, and no problems — compatible with any PC, application software, printer or hard drive. 9600 Baud to printer via 36-pin Centronics male connector.

Stock #2816A [Parallel Port w/o serial cable] \$79.95

Stock #2609 [48/95 to 9-pin Serial Cable, 6'] \$22.95

Stock #F1015A [48/Palmtop to 9-pin Serial Cable, 6'] . . . \$24.95



cables / interfaces continued

Connectivity Products for HP 95



Use the 4.9 foot Serial Interface Cable to link the HP 95 to your IBM-compatible PC—optional Connectivity Pack includes cable and datacomm software for the PC, plus a female 9- to 25- pin adapter (in case you need one).

Pack contains PC versions of the Appointment Book, Phone Book and Memo Editor, all programmed by Lotus specifically to take advantage of the HP 95's environment—plus this software will translate files from *Metro*, *Sidekick* or *PC Tools* for your 95.

You get PC versions of the HP Financial Calculator and Filer applications, too, along with *DOS-Connect*, a utility that lets you treat the HP 95 as a disk drive while you are within other software applications on your PC.

With the Connectivity Pack you'll have symmetric environments on your HP 95 and your PC. But users who don't want this added convenience can still do PC-to-HP 95 file transfers by purchasing the cable alone to connect to their PC and communicate via standard datacomm protocols (for example, Kermit or XMODEM).

You can use your Serial Interface Cable to connect the HP 95 to a printer or modem, but you will need the Serial Cable Adapter Kit as well.

Pack includes both 5.25" and 3.5" disks and a brief manual.

Stock #F1001A [HP 95 Connectivity Pack] List \$100 \$79.95
 Stock #F1015A [48/95/100 to DB9 Cable] \$24.95
 Stock #F1023A [Serial Cable Adapter Kit] \$24.95
 Stock #F1016A [Mac/Apl to HP 95/100 Serial Cable only] . . \$24.95

Connectivity Kit between PC and HP 95



Transfer and translate Lotus spreadsheets, word-processing text or Hyper card files—merge, upload or download the appointment book and phone book, memo, calculator and filer. Autotranslation (just point and click) of HP 95 *Phone* and *Appointment Book* to *Sidekick*, *Paradox*, *Metro*, *PC Tools* or *CDF*.

Kit contains 1.5 meter serial cable, communication software, Owner's Manual.
 Stock #2556 [95-PC Connectivity Kit, 3.5" & 5.25"] List \$99 \$39.95

Serial Interface Kit for HP 95

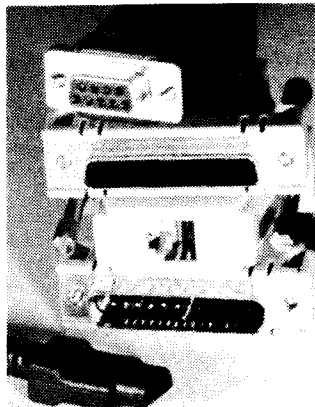
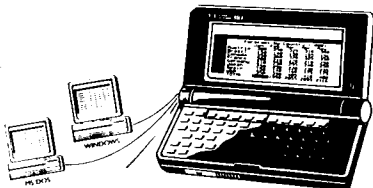
CMT

Avoid connector misfits! This 6' cable fits HP 95 Serial Port on one end and its other end is a phone jack. Cable is shielded and has strain relief.

4 adapters are included that accept the cable's phone jack—a 9- and a 25-pin female to fit PCs, a 25-pin male for a modem, and a 25-pin male for a printer.

Kermit communication program for PCs is included on disk, along with brief directions for its use.

Stock #2342 [95 Serial Interface Kit, 5.25"] \$36.95



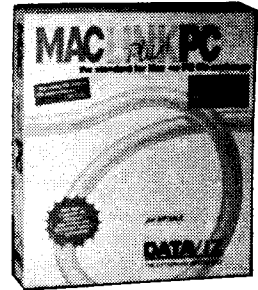
MacLinkPlus for the HP 95/100/200

DATAVIZ

Back up, translate and transfer files between your HP 95/100/200 and any Mac Plus (with hard disk and OS 6.0.3, or newer; System 7 compatible)—with a few clicks!

Translate files between popular word processors, spreadsheets, databases and PIM applications for the Mac and the HP 95/100, including its Phone and Appointment Books, Memo and Lotus 1-2-3.

Includes serial cable, Mac and 95/100/200 software and Reference Manual.
 Stock #3032 [MacLinkPlus, 3.5"] List \$129 \$109.95



peripherals

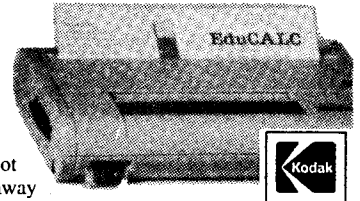
Diconix 180si Portable Printer for HP 95/100/200

- Create new overheads in an instant
- Customize your proposals on the spot
- See your letters in final form right away
- Respond to clients while you're on the road
- Make last minute revisions to your presentations

Only 2 x 6.5 x 10.8 inches, and it weighs just 2.9 lbs (3.5 lbs with optional batteries); RS232C serial interface; prints on sheet or tractor plain paper or transparency. Multiple fonts and print modes in 96 x 96 dpi Draft or 192 x 192 dpi Quality resolution. Quiet; just 45 dB. Includes AC adapter/recharger.

HP ink-jet print head is user-replaceable. Can recharge its batteries even while printing. 1 yr warranty.

Stock #K180SI [Diconix Serial Printer] List \$349 \$299
 Stock #CN [NiCd C Cell] (requires 5) ea \$5.10
 Stock #2351 [Kodak Print Head] \$13.95
 Stock #51604A [HP InkJet Print Head] \$8.95



Drive95 or Drive100/200 Portable 3.5" Disk Drive for your HP 95, HP 100 or HP 200

Sparcom CORPORATION

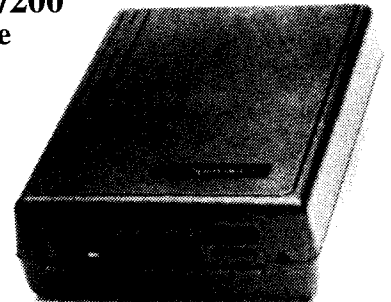
This lightweight, battery-operated disk drive features Sparcom's device driver software, engineered to read and write in MS-DOS format on standard 3.5" HD floppy disks.

This drive makes it affordable to store data, simplifies program execution from 3.5" disks and facilitates basic file operations, such as copying, transferring, and formatting.

Designed for remote operation, the drive has an intelligent cache which extends battery life up to 15 hours on a single charge. Compact (7.25" x 5.25" x 2") and contoured to complement the HP instrument, the drive95 also interfaces with the HP 48S/SX/G/GX or most DOS based palmtop, laptop, or desktop computer, and supports 720K and 1.44MB capacity 3.5" disks.

Includes device-driver software, manual, serial cable and AC charger/adaptor; 90 day warranty.

Stock #2602 [Drive95 for HP 95 & 48] List \$330 \$285
 Stock #3024 [Drive100/200] List \$330 \$299



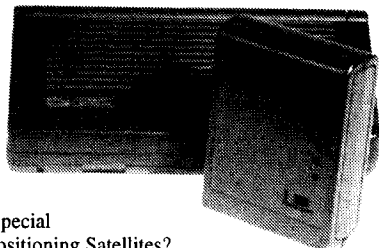
palmtops

peripherals continued

Engineer's Interface Box

for HP 95/100/200

EduCALC



Attention: hardware developers and electronic hobbyists—let your imagination soar.

How about a tiny hard drive? a special modem? a receiver for Global Positioning Satellites?

We've done the hard part for you—here is an empty plastic shell to house your product—precision molded to fit perfectly with an HP 95/100/200 into the MDL cradle. It has texture and color exactly like the Palmtop itself, so your finished product will have that fully professional look!

Comes with drawings for overlays and 2 PCBs you may mount inside, and there's enough internal volume to accommodate more electronics. Battery compartment can hold a 9v block-type battery. 5 plastic pieces and drawings are included; approx 1 x 2 1/2 x 3 3/8 inches outside.

Stock #2688 [Engnr's Interface Box] 1 to 9 units each \$4.95

Stock #2689 [Engnr's Interface Box] 10 to 49 units each \$3.95

(Please call us for quotations in large quantities.)

External Card-Link Drive

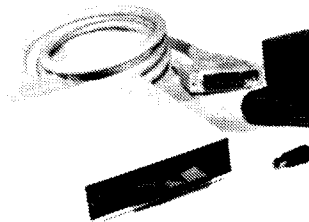
(ok for HP 95/100/200/OmniBook)

SCT

Lo-cost convenience—transfer files, programs and data between your palmtop and desktop PCs.

4 x 1 x 6 inches, 1 lb, transfers data at 80KB/sec. Includes AC adapter, connects to parallel printer port on PC. Reads or writes to RAM or FLASH cards, Type I or II, 5 or 12 v. Comes on 3.5" floppy to download (free exchange to 5.25" disk).

Stock #CL680 [SCT Card-Link] List \$190 \$164.95



Internal ThinCardDrive

(ok for 95/100/200)

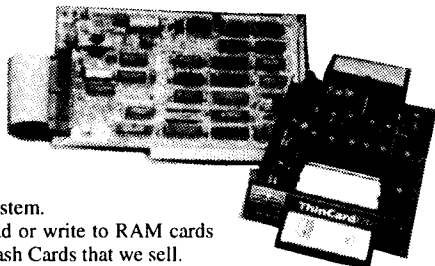
Databook

Transfer data from IC memory cards to and from PC/XT/AT computers—in all popular formats including PCMCIA (Type I & III), POQET, Metaformat and Microsoft Flash File System.

Model TMB-240 will read or write to RAM cards and can also program all Flash Cards that we sell.

System contains a half-length PC board, 24" interconnect cable, card drive unit which fits into slots for either 3.5" or 5.25" disc-drive units, software and user's guide.

Stock #TMB240 [ThinCard Drive] List \$250 \$229



We guarantee everything we sell. You may return it to us in new condition within 30 days for a full refund, no questions asked.

External ThinCardDrive

(ok for 95/100/200)

Databook

Read and write to cards with your PC! Just plug this into the printer port of your DOS or Windows computer, and plug your printer into this for pass-through operation.

Model TMD500 reads and writes static RAM cards in all popular formats: TMD550 also handles FLASH cards. Both models come with complete, self-installing software, cable and User's Manual.

Stock #TMD500 [External Card Drive] List \$300 \$229

Stock #TMD550 [External Card Drive] List \$349 \$259

Mobile Data Link

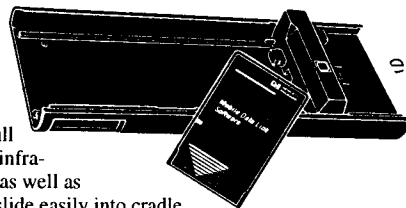
for HP 95



Cradle connects HP 95 with NewsStream receiver while still providing access to serial and infrared communication interfaces as well as the AC adapter. Your 95 will slide easily into cradle.

The NewsStream receiver is a product of Motorola, Inc.; it is not included in this package. Cradle size 8.7 x 3.7 x 1.08 inches; software application card, nameplate and User's Guide included.

Stock #F1006A [95 Mobile Data Link, card] \$119.95



Reflection-To-Go v.4.4

HP 700/92

Terminal Emulation

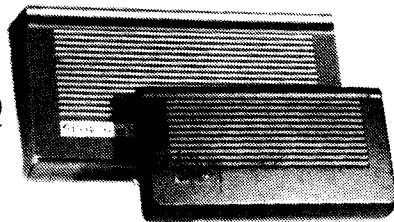
for your HP 95/100/200



Lets you connect up to your host, maybe a HP 3000 or even a UNIX host like the HP 9000. Transfer files to it, or to a PC. Redefine your keyboard. Automate tasks you perform regularly.

Comes on an uncompressed PCMCIA card so your RAM remains free; includes a 3.5" floppy with additional files. Supports serial, modem and infrared connections.

Stock #2974 (Reflection-To-Go, card & 3.5") \$189.95



Fax/Modem & Memory PCMCIA Type II card

professional communications for 100/200/OmniBook

Brand New

Smart

Available September '94

Combines 9600/4800 bps fax send/ receive and 2400 bps modem with the memory—2 or 4MB—that turns your HP portable into a real mobile communications center.

Features error correction, fallback for slower-speed modems, auto dial and answer. Prints incoming faxes on HP LaserJet & most other printers, schedules faxes for economical phone rates, faxes to multiple destinations. Has built-in phone-line interface, Auto Stand-by and Sleep modes, and is COM 1 or COM 2 configurable.

The 2 or 4MB memory can be used as non-volatile FLASH storage when modem is not in use. 5 yr warranty.

Stock #3251 [Fax/Modem & Memory Card, 2 MB] List \$399 . \$289

Stock #3252 [Fax/Modem & Memory Card, 4 MB] List \$499 . \$379



peripherals continued

SwapBox internal PC card drive

SCM Microsystems

Here's the bridge, between your PCMCIA-equipped palmtop and any desktop PC.

Now you can share the same set of function cards in both machines—save on the cost of peripherals like memory cards and also FAX/Modems, LAN adapters, etc. You'll maximize your computing investment dollars.

Each drive accepts all PCMCIA release 2.0 cards, types I, II and even big, fat type III. Each carries an unprecedented 5-year limited warranty, the hallmark of fine engineering and precision manufacturing. Each transfers data at 2MB/sec.

Entry-level drive #2977 has a single slot with access at the rear of your PC, #2978 has a single front-access slot, and power-user's #2979 has both slots (one front and one rear, for simultaneous use). Only #2979 will boot your PC.

Stock #2977 [MMCD-V PC Card Drive] List \$119 \$99.95
Stock #2978 [MMCD-D PC Card Drive] List \$289 \$199.95
Stock #2979 [MMCD-SD PC Card Drive] List \$399 \$329.95

Modem or FAX/Modem for HP Palmtops or Sharp Wizards



- access databases and email from anywhere in the world
 - use with your PC connectivity cable; no extra cable to carry
 - pocket size, 1.2 x 2.5 x 5 inches, and battery powered
 - just plug it in—no software needed
- Stock #3249 [BSE 96/24 FAX/Modem] \$99.95

ThinFax Basic LX the first fax/modem that lets you send and receive faxes from your HP 100/200

EXP

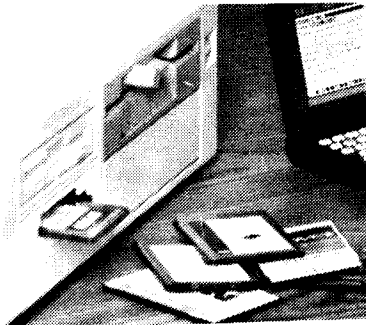
Plug & play software built into card, has user-friendly look and feel of the built-in HP 100/200LX applications. You can preview faxes on screen before sending or view received faxes. Customized fax cover page. Custom phone directory for frequently called numbers.

Fast 9600 bps send/4800 bps receive for faxes and up to 2400 bps for data. Lifetime warranty.

Stock #2985 [ThinFax Basic LX] List \$279 \$219.95

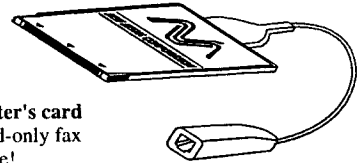


New



PalmModem 2400/PalmFax for HP 95 or for HP 100/200

New Media



Just plug this into your computer's card slot—you've got a modem or a send-only fax machine that's PCMCIA compatible!

Up to 2400 bits/sec for data, compatible with all major communication standards. Fax transmission will go at 4800 bits/sec using CCITT V.27ter, V.22 bis, V.22, V.21, Bell 212A, and Bell 103 standards.

All terminal emulation and facsimile software is built into this card, plus there's 128K RAM onboard, so data is made transmittable without using your computer's memory.

With this you won't even have to carry a printer—just fax your output to a local fax machine to get hard copy!

Stock #2680 [95 PalmModem] List \$199 \$169.95

Stock #2777 [100/200 PalmModem] List \$199 \$174.95

14400 FAX Pocket Modem

leaves your PCMCIA port
open for memory or software
for 100/200/OmniBook

PRACTICAL
PERIPHERALS.

Brand New



Palmtop powerhouse weighs 4.2 ounces yet combines V.42 error control and V.42bis data compression to get effective throughputs up to 57,600 bps.

Six pages of HELP are in ROM, so you won't need to pack a manual. Comes with 4 AA batteries and a plug-in wall power cube, data comm and fax software on 3.5" disk and telephone cable, all in a leather carry-case with a lifetime warranty. It also comes with a cable, MINI-DIN to DB-9 pin, that works with an OmniBook; however, to connect to an HP 100/200 you'll have to get a separate HP 9-pin cable.

Stock #3205 [FAX Pocket Modem] List \$399 \$359

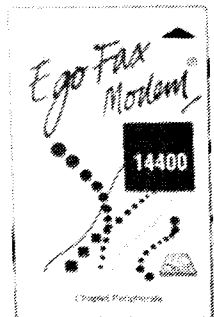
Stock #3211 [MINI-DIN to HP 9-pin Cable] \$29

FAX Modem for HP 100/200/OmniBook

Chaplet

14,400 bps PCMCIA Type II Fax/Modem is loaded with software. You can view your transmitted fax or print to a serial printer. It is compatible with the HP 100/200's DATACOM and cc:Mail—even has cellular phone capabilities. The built-in V.42 bis data compression allows greater throughput as well as advanced error correction.

Stock #3010 [Ego Fax Modem]. \$389



EduCALC News Line (714)582-3976

Phone EduCALC any time for weekly reports on the latest products and activities for handhelds and palmtops. Updates are made each Tuesday. Topics include new products or services, special offers, novel applications, and news about the activities of user groups.

palmtops

peripherals continued

Fax Modem for HP 100/200/OmniBook

Epson

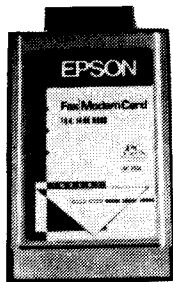
Slide this card into your PCMCIA Type II slot and you've got a go-anywhere modem and send-only fax machine!

Comes complete with Window Fax Software for a PC and Socket Services Software for your portable. Epson reliability, with a 2 yr warranty.

Model EFM96 has a 2,400 Baud modem and 9,600 Baud fax.

Stock #EFM96 [Epson Fax Modem] List \$329 \$49

While they last!



Will you want to phone home? Take along this tiny modem! for HP 95/100/200

WORLDPORT

About the size of a deck of cards, it's completely portable. There is an internal 9-volt battery, so it draws no current from your computer or from a phone line.

Even though it's the smallest modem of its kind, and Hewlett-Packard recommends its use with the HP palmtop, it works just fine with your desktop PC as well (or any other computer that has a serial port).

The WorldPort comes in several models, each designed for the HP 95 or 100 200. Each provides dual communication standards, so you can use it anywhere in the world. It supports the Bell 103/212A standards in the USA and also the internationally recognized CCITT v.21 (300 bps) and v.22 (1200 bps) standards, and it is both switch- and software-selectable. The 2400-baud models also support the world-wide v.22 bis standard.

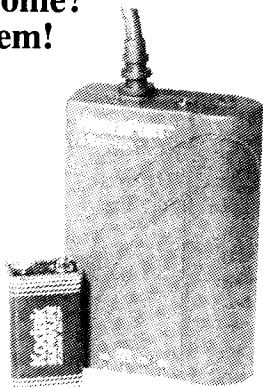
Each modem is fully compatible with the Hayes AT Command Set, including all the latest extended commands. It also has Auto-dial and Auto-answer capabilities and automatic power control.

Of course, it has a U.S.-standard modular phone jack. But sometimes you're in a phone booth, a hotel room or a foreign country where no jack is available. The WorldPort gives you additional, direct interface to optional, low-cost acoustic cups for such field situations.

Comes with battery and AC adapter, 7' modular phone cable, acoustic cups adapter cable, internal speaker, Manual and Quick Reference Guide, plus bonus MNP Level 5 software for fast transmissions by data compression; 2-year warranty. It's made in the USA; furthermore, you'll have 800-number tech support. To use it with your HP 95 or 100/200 you'll need a Serial Cable (best buy for your HP 95 is #2449). Two year warranty on all modems.

Stock #2461 [95 WorldPort 1200 Modem] List \$139 . . . \$119.95

Stock #3033 [100/200 WorldPort 2496 Modem] List \$199 . . . \$179.95



New MDL cradle model—needs no serial cable, instead slides directly into HP palmtop cradle #F1007B. Runs on internal 9 v battery or cradle AC power. MNP 2-4 error control, MNP5 data compression.

Stock #2766 [95 WorldPort 2400 V42.bis] List \$249 \$224

FAX with your modem—new model will send-only, ASCII symbols only, to a FAX machine at 4800 bps (has all other features of #2462).

Stock #2383 [95 Worldport 2400 Plus Modem] List \$249 . . . \$219

Save 75% on telephone charges—world's fastest pocket-size lightweight external 9600 to 300 bps modem with MNP 4 error control. For HP 95 or 100/200.

Stock #2585 [Worldport 9600 v.42 Modem] List \$289 \$249

Thank you for your order!

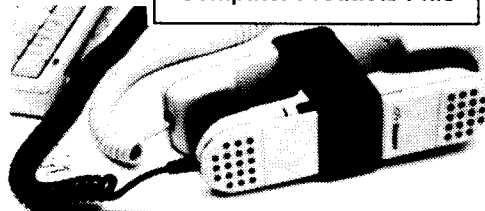
Telecoupler II for HP 95/100/200/OmniBook

- ✓ pay phones
- ✓ foreign phones
- ✓ customer's phones
- ✓ hotel phones
- ✓ digital phones
- ✓ car phones

Works with virtually any telephone, and most modems—you won't have to search for an RJ-11 jack. Does not work with "line-powered" modems. Transmits up to 14,400 bps for data and fax.

Stock #3001 [Telecoupler II] List \$160 \$139.95

Computer Products Plus



DOCK101 Keyboard for HP 95

Key Tronic

Speed data entry with 101 key full-size keyboard and viewing platform. AC powered; connects to serial port. Use with MS-DOS 3.2 and above, Windows 3.x. Requires HP serial cable #F1015A or #2609.

Stock #3013 [HP 95 Keyboard] \$99.95

cc:Wireless Kits



HEWLETT
PACKARD



Lotus

RAM
MOBILE
DATA



Everything you'll need to start using the RAM Mobile Data® service! Save with these two kits from EduCALC, the world's discount source for palmtop electronics.

The Mobile Kit—get one of these for each traveler who wants to be more productive. It's easy to carry and simple to use. Kit contains the Intel Wireless Modem, HP 200LX 2MB computer, RJ45-HP 10 pin serial cable and a rich leather case. You save \$106.

The Server Kit—add this to your office's LAN email server (running Lotus cc:Mail Router) so you can exchange messages with its users just as if you were back at the office. Kit contains Intel Wireless Modem (server version) and HP 200LX Connectivity Pack. You save \$35.

Intel Wireless Modem—your 2-way radio modem, for email without the phone lines. It has simple, automated operation, with only 2 keys!

- Size: 2.7 x 7.9 x 1.3 inches
- Weight: approx. 1 lb (470g)
- Terminal Connector: RJ 45, which connects to your PC's DB9 terminal.
- Includes: Lotus cc:Mail Wireless Pack and Intel installation/diagnostic/activation/registration software on 3.5" disk, two batteries with charger and AC/DC adapter, and an RJ45-DB9 serial cable. (Note: server version includes an AC adapter with battery instead of adapter, charger and batteries listed above.)
- Operation Time: 10 hours per charge
- Data Transfer Speed: 9600 bps

The rich leather case, black and elegant—hold your HP 200LX and Intel Wireless Modem steady so you can work with them right in this case—has places to put spare batteries for both instruments, business cards, pen and pencil, plus pockets for PCMCIA cards and papers.

RJ45-HP 10 pin Cable—connects your 200LX to the wireless modem.

Other brands and names are Trademarks of their respective owners.

Stock #2941 [cc:Wireless Kit-Mobile] List \$1619 \$1499

Stock #2942 [cc:Wireless Kit-Server] List \$920 \$879

Stock #2935 [Intel Wireless Modem] List \$800 \$749

Stock #2936 [RJ45-HP 10 pin cable] List \$30 \$20.95

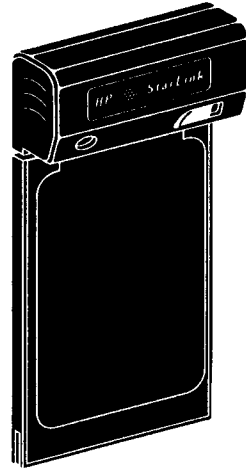
Stock #2937 [Leather Case] List \$90 \$69.95

peripherals continued

StarLink wireless receiver card for 100/200/OmniBook



Brand New



- News and Sports
- Stocks and Company Reports
- Messages from anyone with a telephone, anytime, anywhere
- email from anyone with a modem, anytime, anywhere
- update your appointment book

You just plug this into a PCMCIA Type II card slot—receiver card contains StarLink software.

Then choose coverage to match your needs—local, regional or nationwide—news and sports, stocks, or any of a whole list of options. Call 1-800-917-LINK for service pricing information or answers to technical questions.

StarLink card has a bulge outside your palmtop or laptop card slot—includes one AAA alkaline battery with approximately 21 days life, 128KB applications flash and 128KB message RAM memory. One year warranty with Express Exchange overnight replacement if you need it.

Stock #F1028A [StarLink Receiver, card] List \$229 \$219

SkyStream Receiver with MDL cradle for HP 95/100/200



Receive e-mail & messages, news & sports, weather and market reports—right now, when you need them. Even works inside buildings and airplanes.

Update appointments & travel schedules, to-do lists and Lotus spreadsheets—instantly, wirelessly, anywhere, anytime.

Receiver is built for a fixed frequency, ready for SkyTel service (not included here, costs perhaps \$50-\$80 per month)—telecommunications via satellite, nationally, regionally or internationally. To learn more about subscription, call 1-800-456-3333, ext. 764.

The new SkyStream Receiver has 32K message memory when standing alone. But slide it into the MDL cradle (included) along with your HP Palmtop (not included) and you can store incoming message-files in the palmtop or automatically update files that are already there—then you can read and review these files or send them to your printer.

Receiver weighs 3 oz, comes with MDL cradle, software application card (F1006A), User's Guides and operating instructions; 1 yr warranty.

Stock #F1009B [SkyStream Receiver] List \$525 \$429

Stock #F1007B [95 Cradle only] List \$60 \$54.95

Stock #F1027A [100/200 Cradle only] List \$79 \$69.95

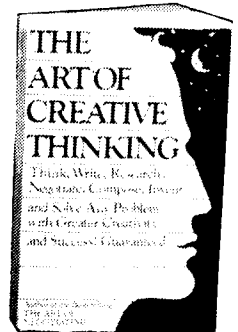
Recycle the already recycled — just remove the cover and this catalog is 100% recycled, 100% recyclable (as "newsprint").

software

The Idea Generator Plus Think, Write, Research, Negotiate, Compose, Invent and Solve any Problem for 100/200/OmniBook

**Experience
in Software**

Brand New



This 'intelligence amplifier' thinks *with* you (instead of *for* you). First it helps you get a clear statement of your problem, your goals and the people involved.

Then it guides as you use 7 idea-generation techniques—such as remembering similar situations, and then seeing your situation through the eyes of Tom Edison or Lee Iacocca. Your package will include a *free* copy of the book, *The Art of Creative Thinking*, by Gerard Nierenberg, so you can find out more about any of these steps when you want to.

Finally you evaluate these ideas you have generated in terms of costs, benefits and effects on people. When you choose the best one, you can print it out or send it to management software like Agenda, GrandView or MaxThink. 30-day money-back guarantee!

Stock #3245 (Idea Generator Plus, 3.5") List \$195 \$97.50

Project KickStart the 30-minute project organizer for 100/200/OmniBook

**Experience
in Software**

Brand New



- launch a product
- start a business
- plan a career move
- develop a marketing campaign
- increase team communication
- organize an event or project

Not a project-management program (they're great for schedules and budgets)—Project KickStart starts where you do. Fast and easy, it uses 10 simple steps to help you create your own solid, up-front strategies. Within minutes you'll view or print out The Project Plan, an overall strategy and task-list. If you like, feed this into Lotus Agenda, MS Project, etc.

You get a 30-day guarantee of dramatic results—or your money back! Just one use will save more than its low cost—then it's free!

Stock #3244 (Project KickStart, 3.5") List \$98 \$79.95

The Art of Negotiating for 100/200/OmniBook

Experience in Software

Brand New

your coach-on-a-disk for proven everybody wins strategies

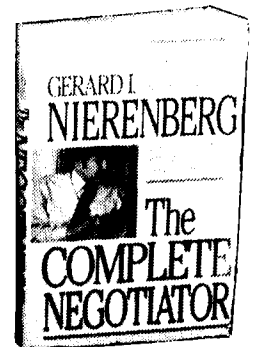
Get whatever you want, fast and easy—it's guaranteed!

You'll use this breakthrough software to—

- analyze your opponent's needs . . . and your own
- respond to his strategies and gambits
- control the situation . . . all the way
- overcome deal-killing obstacles
- propel the negotiation toward its mutually satisfying conclusion

Includes a *free* copy of master-negotiator Gerald Nierenberg's book, *The Complete Negotiator*.

Stock #3246 (Art of Negotiating, 3.5") List \$195 \$97.50



palmtops

software continued

ACT! for HP Palmtops

Symantec



take your ACT! on the road
you'll have the world's most popular contact-management software where you need it most—right with you, in your palmtop.

Track your contacts and clients

Tasks **Contacts** **Directory**
Phone-list
 Company: Corporate Image Products
 Contact: Tom Huffman
 Phone: 214-357-4998 X: CC:
 Title: Owner
 Sec: Maryanne Dear: Tom
 Address: 32432 St. Thomas
 City: Irving ST: TX ZIP: 76062
 Call: :
 Meeting: :
 To-do: 09/05/91 10:00a order new cata
 Screen 1 of 11 02/27/92 18:53

- Tracks up to 4000 contacts
- 71 user-definable fields
- Hide/protect field attributes
- Database Password Protection
- User-definable and keyboard
- Automatically-updated contact history
- User-definable, pop-up windows for easy data entry
- Instant contact 'Look-Up' capability
- Date-stamped notes for each contact search

Generate reports, to view, file and print out

Edit **Schedule** **Clear** **Lookup** **Phone**
View **Expenses** **Report** **Quit**
 Comp: :
 Cont: :
 Ph: :
 Ti: :
 Addr: :
 C: :
 062
 Meeting: :
 To-do: 09/05/91 10:00a order new cata
 Screen 1 of 11 02/27/92 28:53

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

- Address list
- Phone List
- Tasklist for all activities
- Future Activity report
- Contact report
- Calendar of to-do's

ZAP business cards and integrate data

- Import/export ASCII delimited data
- ZAPCARDS wireless business card exchange
- Direct ACT! data exchange with PC's via cable (included)

Manage your calendar and to-do list

Calendar	Calendar	To-Do's
Thursday-- Sep 5 Thomas Huff 9:00a Thom Friday-- Sep 6 Jordan Office 9:30a Will OK Office Su 2:00p Nels Sunday-- Sep 8 Paper Moon 8:00a Step	Saturday-- Sep 7 Express Offi 4:00p Kell Monday-- Sep 9 Corporate Im 8:00a Huff Wednesday-- Sep 11 Superior Dis 2:00p Lena	Friday-- Sep 6 National Pap Make travel

Tasks 09/05/91 - 09/15/91 02/27/92 4:50

- Daily activity list of calls, meetings and to-do's
- 'One-finger' scheduling of multiple activities
- Instant "Tasklist" for any date-range
- Week-at-a-glance calendar view
- "Pop-up" alarms for critical activities

Track all your expenses, on the fly

- Expense detail, billable hours and mileage
- Expense reporting by date range or type of expense

What, you may ask, does 'Zapcards' mean? That's when you wish to give your business card or other contact info to a friend—you simply press CTRL-Z, line up the infrared ports on your two HP Palmtops and Zap! it goes like a TV remote.

It's easy to get started—to download you connect your HP Palmtop to your PC using a serial cable (not included), put the ACT! program disk in your PC, and type INSTALL—that's all! In one step, ACT! is transferred to your palmtop. Once it's there, you have easy-to-use menus to guide you. Keystroke commands are like those for the PC version of ACT! and there's friendly HELP at your fingertips.

This program needs at least 150K free system RAM in your HP Palmtop.
 Stock #3031 (ACT! for HP Palmtops, 3.5") List \$129 \$89.95
 Stock #F1015A [Serial Cable] List \$39 \$24.95

What about ACT! in your PC?

If you want ACT! in your HP Palmtop to exchange data with your PC, you'll need ACT! version 2.11C in that PC.

If you need a copy of ACT! for your PC as well, order this latest version now at our deep discount price. It comes on both 3.5" and 5.25" disks.

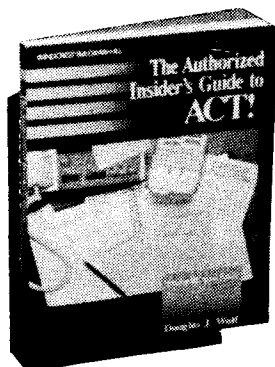
Stock #2620 (ACT! for PCs v. 2.11C) List \$395 \$249
 Stock #2735 (ACT! for Windows v. 2.0) List \$495 \$349

The Authorized Insider's Guide to ACT! by Douglas Wolf

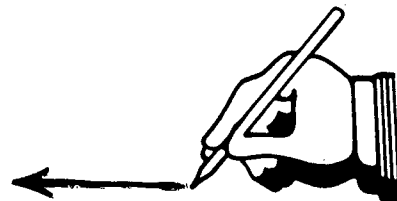
Get the most out of ACT! on the job—here's everything you need to know about how to install, use and customize it.

Create a database or a form letter, schedule a call, extract and merge word-processed files, generate reports, customize multiple databases, record macros, protect data with passwords, send documents directly to a FAX machine.

Stock #2879, Insider's Guide to ACT!, 165p hardbound . . . \$26.95



Developer's Kit for Switch 2.0 for HP 95



You can develop System-Manager compliant applications in just minutes! Kit gives you a simple application interface (API) to convert your DOS programs. Easily makes Assembler, C, QBASIC, PASCAL, Forth, etc., programs compliant, too. Includes unlimited royalty-free license to distribute.

Requires RAM card.

Stock #2807 (95 Switch 2.0 Developer's Kit, 3.5") List \$99 . . . ~~\$89.95~~

software continued

acCIS CompuServe Automation Program for 95/100/200



Brand New



- Send Faxes
- Get Stock Quotes
- Read the Latest News
- Send/Receive Electronic Mail
- Communicate around the World
- Download Software to your Palmtop

acCIS is the only CompuServe access program that is fully SYSMGR compliant and works on all HP palmtops.

Join the HP HAND forum and correspond with authors and experts.

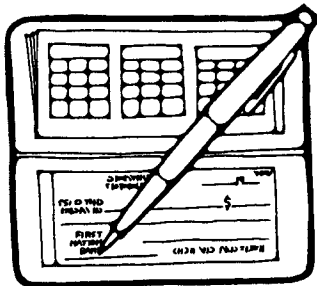
Free DOS version of acCIS included for your desktop.

Stock #3255 (acCIS, 3.5") \$63.95

Checks! v3.1 for 100/200/OmniBook

**Snappy
Software**

Brand New



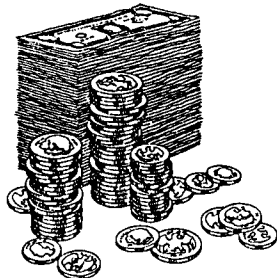
At last—you can automate your checkbook register, so it will be portable and very easy to use (inexpensive, too).

A demo version of Checks! is posted in the HP Palmtop Forum of CompuServe. It's small (192K), has a password, and can be used while you're inside other programs. Handles checks, deposits, ATMs, electronic transfers (ETFs), service charges, voided checks. It totals debits, credits and grand total for you, then prints out the register if you want.

Stock #3247 (Checks!, 3.5") \$18.95

Money Manager software for your HP 95

Autobyte



Portable accounting in the palm of your hand — gives full control over banks, checks, credit cards, income and expenses — plus simple reconciliation of banks and credit cards. Complete reports on screen or sent to printer.

Requires HP 95 with #F1015A serial cable. Includes versions for 95 and also for your PC/compatible (512K RAM) on 3.5" or 5.25" disk.

Stock #2492 [95 Money Manager, 3.5" & 5.25"] List \$60 . . \$54.95

Quicken for DOS 7.0 for your desktop PC

Intuit

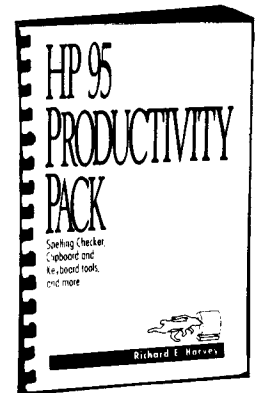


Useful to you? Of course. It's the world's most popular software program.

Stock #3253 (Quicken for DOS, 3.5") List \$69.95 \$49.95

HP 95 Productivity Pack

Richard Harvey



Spelling checker, Clipboard enhancer — and all System-Manager compliant, so you can switch easily between these and built-in programs.

Spell-checker has 3 versions, so you can choose the one you have room for. You can edit the clipboard and copy its files to disk. There are even 2 games as a bonus. Manual included.

Stock #2809 (HP 95 Productiv Pck, 3.5" & 5.25") List \$50 . . \$38.95

Dictionary/Thesaurus ROM Card for the HP 95/100/200

**hp HEWLETT
PACKARD**

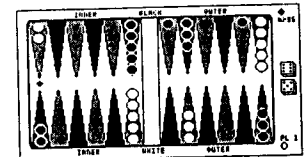
Based on *The American Heritage Dictionary* and *Roget's II: The New Thesaurus*. Checks your spelling of a single word or every word in your document. Gives you all the meanings of a word, and then finds similar words for any one of the meanings. Next, you can insert just the right synonym in your document with the touch of a key, since this ROM program works neatly together with other HP 95 applications, like MEMO.

Extra features include Wildcards searches, where it finds all the words when you have a partial spelling. Also has an Anagram function that gets you every word you can spell with a given collection of letters — for killer Scrabble! Includes the popular word game Hangman.

Stock #F1005A (Dictionary/Thesaurus, card) List \$150 . . \$129.95

Games95

**Sparcom
CORPORATION**



- Chess ■ Checkers
- Tetris ■ Backgammon
- Space Invaders

Comes on diskette with manual; 1 yr warranty.

Stock #2687 (Games95, 3.5") List \$50 \$44.95

GAMEcard volume 1 for HP 95/100/200



Plug a lot of fun into your HP Palmtop—here are 14 games on a single ROM card: Unscramble, Checkers, Meko, Qubic, Klondike, Mines, Solitaire, Tetris, Blackjack, Craps, Adventure, Reversi, Go and Poker.

Stock #2651 (GAMEcard vol 1, card) \$78.95

Switch 2.0 Launcher/Control Program for HP 95



*Now -
Multi-tasking*

You'll have easy control of your 95—to launch up to 48 HP-specific programs (.EXM files) from a single menu. Now supports multi-tasking—no more closing System Manager before running your DOS applications.

You'll have that same menu-power over an additional 48 DOS programs per drive. Plus the convenience of having your favorite programs (DOS or EXM) under their very own hotkeys, for instant launches.

You'll also get a Function Key Control Panel so you can supervise many of your HP 95's functions—defaults, auto power-off timer, battery levels, free memory & disk space, port status, cursor and scrolling.

Comes on disk to download; requires 128K RAM card and uses 94K active, 66K on disk.

Stock #2679 (95 Switch, 3.5") List \$69 \$64.95

Switchable Programs - for HP 95/100

HP 95/100 applications that will run simultaneously with the built-in programs like MEMO, PHONE, and LOTUS. Additionally, Switch 2.0 comes with a loader file that will make ACT! for the 95LX switchable. Also, Personal Food Analyst (#2852) is switchable.

fastNOTES!

Lets you create, organize and access information as electronic pop-up notes—features include auto time-stamp, global search, ASCII import/export and quick index. 40 column display in HP 100/200.

Stock #2869 (fastNOTES!, 3.5") \$69

fastLINE!

Fast HP 95 outliner and text processor—supports up to 8MB outlines and can be used for text retrieval with global searching. Auto date and time stamping for PIM functions. Built-in File Manager, requires less than 200K of RAM. 40 column display in HP 100/200.

Stock #2871 (fastLINE!, 3.5") \$89

Medical Databases

for your HP 100/200 or OmniBook

New

PEPID

Orthopedics Database includes Diagnosis and Management essentials of all Fractures, Sprains, Ligament and Joint Injuries and Infections. Also Orthopedic procedures such as joint aspiration, reduction of dislocations, splinting and casting.

Pediatrics Database is an essential Emergency and Primary Care source for all Pediatric problems—includes neonate to teenager, growth and development, all diseases and Emergency Resuscitation.

Toxicology Database includes General Management, Overdoses, Antidotes, Drugs of Abuse, Occupational Exposures, Plant Identification and Poisonings, General Toxins and complete listing of Poison Control Centers.

Trauma Database includes Resuscitation Basics and Management of all traumatic emergencies plus a step-by-step guide to procedures.

Stock #3206 (Orthopedics Database, 3.5") \$69

Stock #3207 (Pediatrics Database, 3.5") \$69

Stock #3208 (Toxicology Database, 3.5") \$69

Stock #3209 (Trauma Database, 3.5") \$69



Mechanical Engineering Equation Library for the HP Palmtop

Paul Harmon

160 most-used equations for MEs—plus Lotus 1-2-3 spreadsheets containing ME conversion factors, properties of common shapes and volumetric properties of common geometries. In addition there are text help files for each subject. All in less than 60K bytes of disk space.

Equation groups include spring design, gear design, beam design, stress analysis, press fit design, pressure vessel design, heat transfer analysis, electric motor design, fluid motion equations, a third order steam table approximation, more.

The equations are grouped together in logical sets by a practicing mechanical engineer and greatly simplify iterative design tasks. Using the HP Palmtop's calculator, spreadsheet, and cut and paste facility allows straightforward access to problem solving algorithms, the material and conversion constants required by the algorithms, and an easy way to bring the two together. The equation sets are simple to modify or extend, and new ones can be integrated with the library.

Comes on PC disk; requires Serial Cable (#F1015A) to download.

Stock #2535 (ME Library for HP 95/100, 5.25") \$29.95

ME Equation Library for Spreadsheet Use

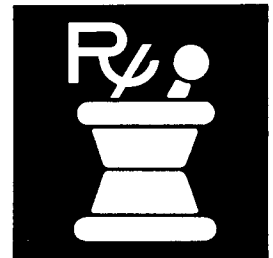
Same as #2535 with all equations done in Lotus 1-2-3 spreadsheet form so the HP 95/100/200's HP-CALC program is not used. Spreadsheet format is HP 95/100 friendly, but may be used with any 1-2-3-compatible spreadsheet program.

Stock #2810 (ME Equation Library for Spreadsheets, 5.25") \$29.95

Medical Software for your HP 95/100/200

COMPUTERBOOKS

*Sale -
New Low Price!*



■ **Pharmaceuticals**—gives you instant dosages on over 10,000 drugs, warnings and contraindications, therapeutic and pharmacologic classifications, and supplier information on over 3300 generic and trade-named drugs. Fits into 500K. 1.7 MB.

■ **Patient Management**—replaces those cumbersome 3 x 5 cards with automated records, styled your way, for patient information, medical history, lab results, notes, reminders, etc.—so you'll never have to call your office again to get this updated data. Fits into 256K.

■ **Patient History**—eliminate hand-written questionnaires, rapidly record each patient response using yes/no, multiple choice, fill-in-the-blank, numerical and reference table formats. Satisfy HCFA documentation requirements for higher-charge CPT codes and justify all charges in a Medicare audit. Creates tailored history with over 260 questions on general information, personal and family medical history and complete review of systems. Fits into 256K.

■ **Drug Interactions**—gives you quick and easy, yet thorough research on interactions. Works 3 ways: give it your list of drugs and it tells you their interactions. Or it will find all drugs that interact with a single agent. Or select a drug classification and it will list all the member drugs. Fits into 256K.

Each program comes on 3.5" diskette for downloading from your PC (requires Serial Interface). EduCALC can load any of these programs onto a RAM card for you—call us for details. Each program comes with complete User's Manual plus an 800-number for technical support. 40 column display on HP 100/200.

Stock #2790 (Medical Demo Disk, 3.5") Free

Stock #2781 (Pharmaceuticals, 3.5") \$129

Stock #2761 (Patient Mgmt, 3.5") \$99

Stock #2762 (Patient History, 3.5") \$99

Stock #2760 (Drug Interactions, 3.5") \$99

Free—buy any 2 of these Medical Software programs and we will include a free copy of Physician's Reference 1, a \$199 value, to save you time in your daily diagnostic analyses. 26 formula-based subprograms from Alveolar-arterial O₂ Gradient to Systemic Vascular Resistance. When you buy 2 of the above programs just add following line to your order:

Stock #2899 (Physician's Reference 1, 3.5") Free

software continued

Personal Food Analyst, Consumer Version Nutritional software for your HP 95/100/200

- Used by all 1st year students at Univ. of Arizona Medical School
- Recommended by Take Care, Inc., one of the country's largest HMOs

Mirical

Take control of your own body!

Take this intelligent diet program along with you—it will analyze food for 27 nutrients to show you how much you should eat (based on your personal profile and daily goals), record what you do eat, and keep track of how well you've done during the past week (printing it out if you wish).

The Personal Food Analyst + HP Palmtop acts like your own personal Nutritionist or Dietician, and does it right at the table with you! You can preview the full spectrum of a food's nutritional content before you eat it—there's a built-in data base of over 4000 foods, and you can add as many more as you want. Then the Analysis Screen shows you bar graphs of your day's or week's results—you can see at a glance how well you've done.

Comes on 1 Meg ROM card to slide into the slot on your HP Palmtop—so easy to use that in 20 minutes it will start having a stunning effect on your health and appearance! Illustrated booklet included.

Stock #2852 (Personal Food Analyst, card) List \$149 \$129

System 95 Surveying Software for HP 95/100/200

TDS

Have your field data-collection AND your office-computation software all in the same machine—your HP 95 palmtop! This is small and easy to carry and to use, yet it's powerful and fast, with a big display to make your work easier.

You'll have all of the popular TDS-48 Survey Card and much more. Here are the groups of functions you'll work with—Job Creation and Review, Setup, Data Collection, Triangle Solutions, Leveling, Sun Shots, Earth Work, Coordinate Geometry, Stakeout, Curves, Adjustments, File Transfer to PC, and Print/Plot.

Comes on ROM card that plugs right into your palmtop. Communicates with all major RS 232 serial-port Electronic Total Stations.

Stock #2716A (System 95 v 2.2, card) List \$695 \$549

Stock #2717 (TDS Tripod Bracket) List \$75 \$69.95

ExpressDecoder universal Barcode Wand with Software for 100/200/OmniBook, DOS or WINDOWS

New

- inventory
- field sales
- order entry
- warehousing
- retail POS
- document control



Now—bar code reading the way you knew it could be, with the data going directly into your application program (spreadsheet, database, etc.). Plus you can enter via keyboard.

Pen-type wand plugs directly into either serial or parallel port on your computer—you choose version with DB9 or DB25-pin adapter (it's flexible, so you can still use your other port for mouse, printer, etc.). Power comes from your computer, yet it draws less than 1% of notebook power.

Reads 1 2 of 5, code 39, full ASCII Code 39, UPC/EAN/JAN, Code 128, Codabar. Variable beep frequency and duration. Visible red LED source.

Stock #3203 [Barcode Wand/Software, serial] List \$249 \$199

Stock #3204 [Barcode Wand/Software, parallel] List \$249 \$199

Scale-Link Plan Scaler for the HP 100/200

Scalex

New



- save time spent scaling
- eliminates errors

Just roll this scaler along your print—Scale-Link software transfers the scaled take-off into your PC—either use included DOS spreadsheet program or virtually any DOS 2.0/WINDOWS 3.0 or later software.

Automatically calculate total cost for each item and for job—52 built-in and 3 user-defined scale factors include all common architectural, engineering, mapping and metric scale factors. Calculates square and cubic dimensions for regular areas and volumes. 1-yr warranty.

Stock #3226 [Scale-Link] List \$189 \$179

BATTman for HP 95



Protect yourself from sudden data-loss—use this battery-management software and nickel-cadmium rechargeable batteries.

This program constantly monitors your batteries. Its special algorithms predict the sharp voltage drops that are inevitable with rechargeable batteries. BATTman warns you, and it shuts your 95 off automatically, saving your data.

Also gives you a timely warning when your RAM card battery is low (if one is installed) or if your HP 95's backup lithium battery is low.

Algorithm works equally well with NiCd, Lithium, Nickel, Metal Hydride or Alkaline cells installed in your 95. Comes complete with 2 NiCd batteries and a quick charger; manual.

Stock #2727 (95 BATTman, 3.5") List \$59 \$49.95

programming aids

95-UTIL FORTH Programming System

EMS

Turn your HP 95 into a portable software - development system with this small and very fast implementation of the Forth programming language. UTIL is System-Manager compliant, so it can be popped over other applications with a hot key.

Includes a Forth compiler, an 8086 assembler for speed-critical routines, a de-compiler and disassembler for testing and debugging, and numerous source-code utilities and examples. Requires under 30K of system memory, maximizing space for your data and programs.

- Create System Manager loaders for your favorite DOS programs
- Source code tools to access built-in 95 graphics capabilities
- FREE games like Merlin and Master Mind provided as examples
- Music routine code makes your 95's keyboard musical
- Runs on your PC with HP's Connectivity Pack APP95 program

Manual included; comes on disk (requires Serial Interface to download from your PC).

UTIL Source Code Option

Examples of Forth programming to help you develop your own applications. Includes source code for: UTIL 8086 assembler, HP 95 EXM loader, line and screen edit functions, DOS gateway, System Manager menu and file services interface, disassembler and decompiler, tools to build UTIL system from kernel file.

Stock #2385 (95-UTIL Source Code, 5.25") \$49.95

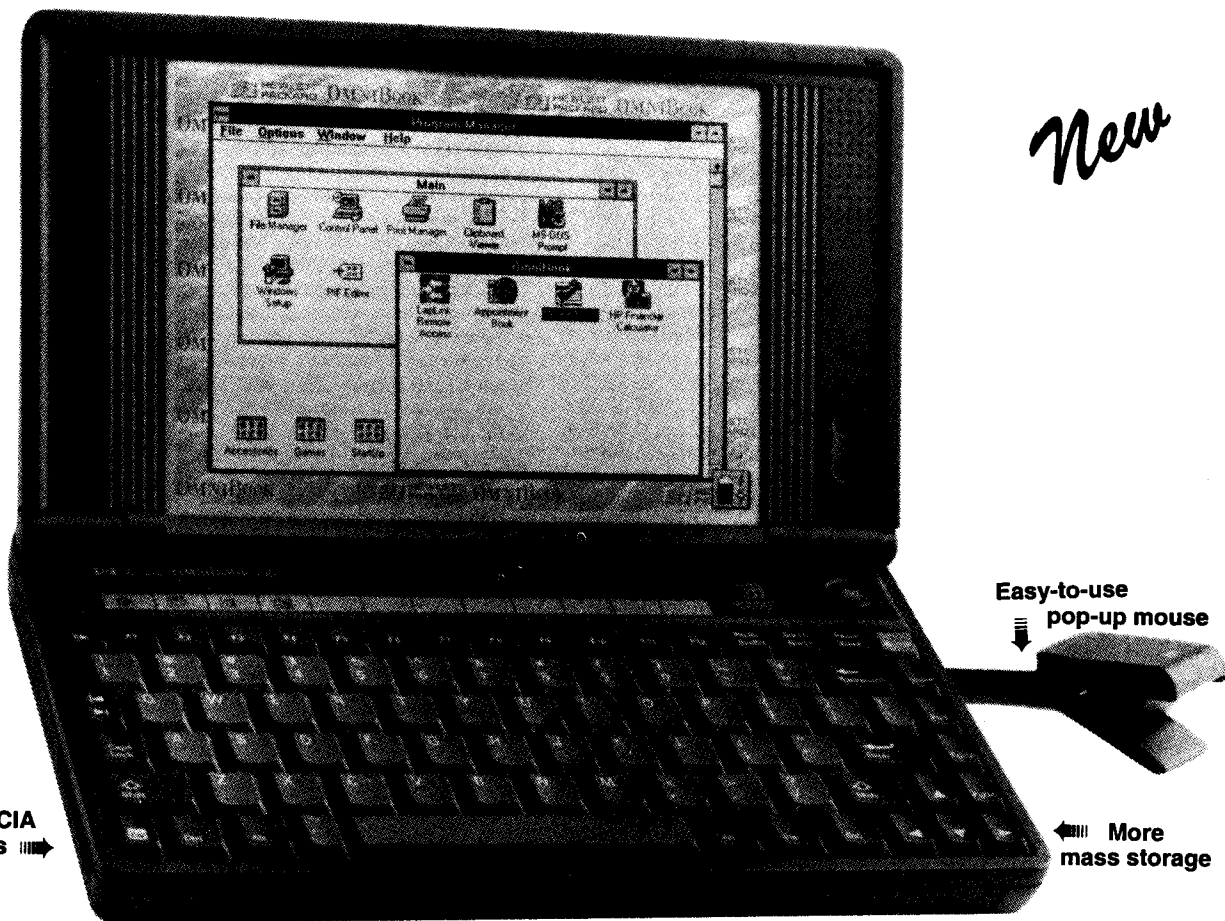
UTIL Metacompiler Option

Lets you create tiny executable applications. You explicitly define only those words that are needed for your application and eliminate the overhead of the assembler, test interpreter, etc. Several examples of typical meta-source code are provided, including a file dump utility that metacompiles to only 1228 bytes. Requires UTIL Forth to run.

Stock #2384 (95-UTIL Metacompiler, 5.25") \$24.95

Stock #2641 (95-UTIL Hex Editor, 5.25") \$29.95

HP OmniBook



OmniBook 530 Superportable PC



Lightest and Smallest full-function PC—only 2.9 lbs with battery, only 99 cubic inches, so it's the most convenient subnotebook on the market.

As *PC Computing* magazine put it, convenience is what portable computing is all about. If you prize that above all else, the OmniBook can't be beat. *Here's the portable that still fits on the incredible shrinking airline tray table.* it will run till you land, too—a battery charge lasts more than 4 hours.

Full-function? You bet—Intel 486/33MHz power with DOS and WINDOWS preloaded, 4 to 12 MB RAM, 130 MB Hard Disk Drive (250MB with compression), plus two PCMCIA type II (or one type III) slots.

This is the speed and power you'll want to run your own DOS or WINDOWS software—the exact word processor, data base, spreadsheet or whatever that you're used to. Every application will be your familiar choice, with no learning at all.

More good news—you'll be using a full-size standard keyboard (this is the only notebook under 5 lbs

that offers instant, effortless touch-typing). Plus, when you turn it ON it wakes up instantly where you left off—no more rebooting every time you use it.

There's also a built-in pop-up mouse—works just like the desktop mouse, but without the hassle. *Portable Computing* magazine gave this mini-mouse its Exceptional Merit Award—only HP offers it.

The OmniBook's two-way **InfraRed** port is another goodie, handy for instant interfacing. HP PIM software is preloaded, so you can handle all your personal information on the go. **LapLink Remote Access** is also included so you can exchange files easily with other PCs via the included serial cable.

All this will work for you with legendary Hewlett-Packard reliability—and their umbrella technical and product support handles any questions you have. There's a 1-year **Express Exchange** warranty, so if your unit should need service, a new one will be sent to you within 24 hours (extendable to 3 years).

HP OmniBook



the first *Post-Dock* Portable

If you ever need another desk computer, at home or at the office, just use your OmniBook 530—it comes with a VGA-out connection and cable, so you can simply hook it up to an external monitor to have full-screen Super VGA, bright and clear with 16 color, 800 × 600 resolution.

The idea is that, with 486/33 power and a full-sized keyboard, all your OmniBook 530 needs to qualify as a modern desktop PC is that big VGA monitor. Plus your desk will look elegant without a big CPU and its docking slot.

Remember, the OmniBook 530 has **two PCMCIA type II card slots** (or one type III) for easy I/O or backup. But it also has a **25-pin parallel connection**, so you might want to add the **optional external 3.5" floppy drive**—this is small and lightweight, and it just plugs into the parallel port. Needed software drivers are already loaded into your OmniBook 530.

Does this start your imagination working?

Hardware Platform



- 2.9 lbs. compact size: 6.4 × 11.1 × 1.4"
- 33 MHz Intel 486SX CPU
- 130 MB 1.8" Maxtor HDD (PCMCIA type III)
- VGA-out supports 800 × 600 Super VGA output with 16 color to external monitor
- 2 user available PCMCIA type II or 1 PCMCIA type III card slots
- Rechargeable NiMH battery pack
- System BIOS on mother board
- Display: 640 × 480 VGA FTN reflective LCD
- 16 levels grey
- I/O: RS232 (9 pin), parallel, IR
- Local bus video

Hardware Features:

- 100% full-size touch-typeable keyboard
- 130 MB HDD (-250 MB with DoubleSpace)
- Optional external 3.5" floppy drive
- VGA-out adapter included
- >4 hour battery life
- 4 MB RAM standard (expandable up to 12 MB)
- Built-in pop-out mouse
- 2 user available PCMCIA type II or 1 PCMCIA type III card slots
- SRRAM provides for instant-ON

Preloaded Applications (on HDD)

- Windows 3.11 and DOS 6.2
- LapLink Remote Access for file interchange
- HP PIM for information on the go
- Companion disk with PIM, LapLink Remote Access and Utilities

Stock #F1052A [OmniBook 530]	List \$1799	\$1689
Stock #H5508A [Express Exchange Extension to 3 yrs]		\$200
Stock #F1040A [U.S. Fax Modem, 9600 Fax/2400 baud]		\$359
Stock #F1041A [2MB RAM expansion]		\$169
Stock #1042A [4MB RAM expansion, HP 300/425/430]		\$386
Stock #F1054A [4MB RAM expansion, HP 530]		\$386
Stock #3035 [4MB RAM, Simple Tech brand]		\$249
Stock #F1055A [8MB RAM expansion - HP 530]		\$634
Stock #F1044A [extra AC/DC adapter/charger cord]		\$94
Stock #F1045A [extra Battery Pack]		\$94
Stock #F1049A [replacement Pop-up mouse]		\$45
Stock #F1012A [5MB flash disk card]		\$364
Stock #F1013A [10MB flash disk card]		\$579
Stock #F1014A [20MB flash disk card]		\$959
Stock #F1057A [extra 130MB hrd disk dr, HP 425/430/530]		\$674
Stock #F1059A [External floppy drive, HP 530]		\$186
Stock #3039, extra User's Guide		\$30

Do you need one of these for your OmniBook?

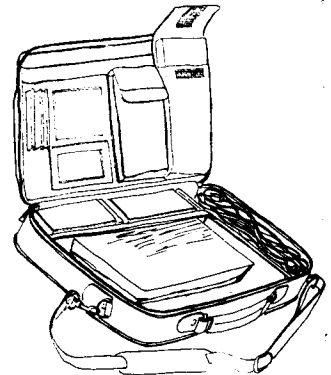
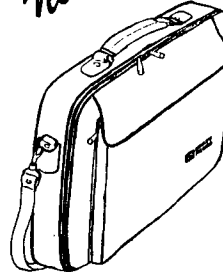
Flash and RAM Cards
Cigarette Lighter Adapter
JetEye Printer Interface
External Card-Link Drive
FAX & Data Modems

page 11
page 13
page 14
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page 16

the leather *TakeItEasy* OmniBook carry case

ISIC

New



- **Look smart** with softly rich, black leather—handsomely designed and meticulously constructed
- **Act smart** with everything together where you need it—organized for instant readiness
- **Be safe** with ultra-light padding, secure pockets and an adjustable, detachable shoulder strap

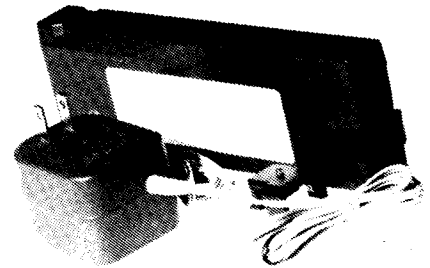
4 inside pockets plus space dividers and pen slots, with velcro-closed outside pocket—so your OmniBook can go in or out. Will also carry books and papers or catalogs, PCMCIA cards, a modem, a disk drive—everything you need!

Stock #3200 [TakeItEasy Leather Case] \$89.95
Stock #3037 [TakeItEasy Nylon Case] \$59.95

External Power Pack for OmniBook and DeskJet Portables

Palmtops, Utilities & Peripherals

Brand New



4 times the power = 4 times the running time—with this standard cam-corder lead-acid gel-cell.

You'll have on-the-go backup power, plus 1 + 4 = 5 times the (approx. 4 hr) operating time of the internal battery pack alone. Cable (included) has LED indicator for low charge. Recharger (included) works overnight, and you can buy a spare battery and always have a fresh one (will not overcharge). Weighs 1.4 lb, 7.4 × 1 × 2.5 inches.

Stock #3043 [External Power Pack] List \$100 \$89.95
Stock #3041 [External Battery only] List \$55 \$49.95

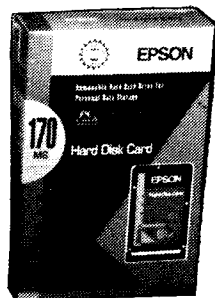
Check out our Palmtop section for more accessories and peripherals for your Omnibook

HP OmniBook

Hard Disk Card 170MB, for Type III slot

Epson

Brand New



Upgrade your data storage capacity—it's easy with this affordable, state-of-the-art PCMCIA 2.1 Type III card.

If the whopping 170MB size of this Epson card is not enough for you, you can use the bonus coupon (included) for a substantial discount on data-compression software direct from the Stackter company—then you'll own a 340MB hard disk!

You'll have convenient data transfer between your OmniBook and desktop or another notebook PC. You'll appreciate intelligent power-saving modes that prolong battery life, and a 250,000 start/stop cycle rating. Preformatted for immediate use, and you don't have to shut down your computer to install it—it's hot-insertable.

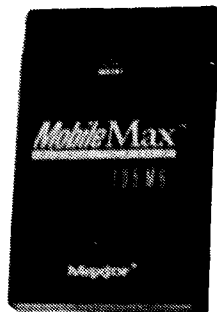
It has a shock-resistance rating of 750 Gs (non-operating), but if you ever have severe damage, its 2-yr warranty guarantees to send you a fully operational drive with your data mounted on the new card for only \$75.

Stock #3044 [170MB Hard Disk, card] List \$499 \$459

Mobil Max 105 or 131 MB hard disc drive on a PCMCIA type III card

Maxtor®

New



At last you can carry your own environment in your shirt pocket—the software you are used to, configured the way you like it, plus all the files and documents you use daily, automatically updated.

It's all instantly ready to use, in your own computer or one you have never seen before—notebook, subnotebook, handheld or desktop—Pen-based, DOS or Windows—all it requires is a PCMCIA type III slot.

These 1.8-inch hard drives have the highest capacities available today. Quality? Maxtor supplies them to Hewlett-Packard and Toshiba! They weigh 2.5 ounces and are 10.5 mm high.

About the size of a credit card, they can take a 100G shock while they're operating, and 600 Gs non-operating. Data transfers to/from host at 4 MB/sec.

CardLock access security gives you flexible password protection that can unlock automatically on your Ethernet address or your particular machines as well as personal passwords, and there's an emergency password feature when all else fails.

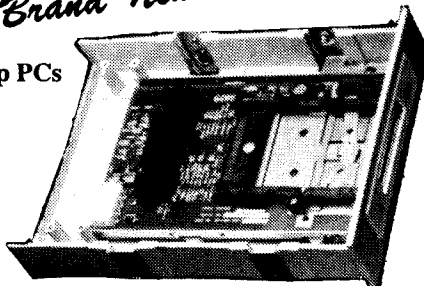
Isn't this the kind of true portability you've been looking for?

Stock #3201 [Mobil Max 105 MB Card Drive] \$329

Stock #3212 [Mobil Max 131 MB Card Drive] \$349

Desk Runner single internal PCMCIA type III card socket for desktop PCs

Brand New



Maxtor®

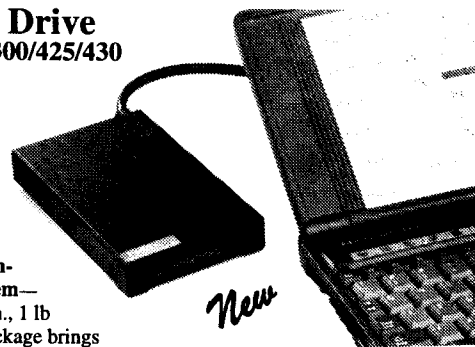
- Cut upgrade costs and increase card usage
- Easily installs into 3.5 or 5.25-inch drive bay of any standard PC
- Industry-standard interface supports a wide range of I/O, ATA, PCMCIA/ ATA and memory cards

Requires PC/AT/386/486, 8 MHz bus clock. Makes no modification to system or application software. Comes complete with host adapter, software (includes GUI utility program), cables and easy installation instructions. Requires DOS-5.0 or later, DOS-V (Japan), Windows 3.1 or later.

Stock #3036 [internal single type III Card Socket] \$107

P35 Floppy Drive for OmniBook 300/425/430

PacRim



New

Transform your OmniBook into a complete computing system—this 3.5", 6.4 x 4 x 1 in., 1 lb pocket or briefcase package brings

3.5", 1.44MB/720KB computing ability along wherever you go (operates on 110 v AC; battery case optional; batteries not included).

Everything included for installation. Use with any DOS computer; connect or disconnect anytime without rebooting. Pass-through parallel port allows simultaneous use of a printer with the drive.

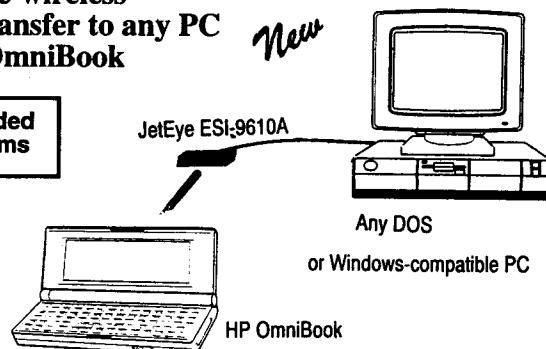
Stock #3223 [P35 Floppy Drive] \$189.95

Stock #3224 [P35 Battery Case] \$18.95

JetEye wireless data transfer to any PC from OmniBook

Extended Systems

New



With JetEye you can transfer data at 115,200 baud between your OmniBook 300/425/430/530 and any PC running DOS or WINDOWS.

JetEye is self-powered from the PC's serial port (9 or 25-pin)—you just line up your OmniBook's infrared port with JetEye and start your built-in LapLink Remote Access program. Networks are supported. 2 yr warranty; easy to install yourself.

Stock #3225 [JetEye PC] List \$135 \$109.95

Fax & Voice modem

Smart

Brand New



- big-office voice mail
- 14.4K bps fax/modem
- PCMCIA 2.0 Type II card

You can get messages anywhere you can find a phone jack—even if you can't answer the phone.

Voice mail features include remote mail retrieval and multiple mailboxes—and low power consumption, standby and sleep modes save up to 60% of battery power when not in use. QuickLink Message Center for Windows software.

Modem is 14.4K but compatible with lower speeds, MNP 2-5 Data Compression and V.42 bis & V.42 error correction, Auto dial and answer. Fax supports group 3 standards, faxes through Windows apps, prints to HP LaserJet and most other printers, schedules for economical phone rates, faxes to multiple destinations, has V.17 & V.29 & V.27 ter send/receive.

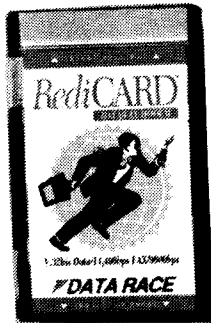
Comes with User Manual, 6 ft phone cord, Y-jack for connection to phone handset, Voice Mail, Fax and Communications software with PCMCIA driver on diskette. 5-yr warranty.

Stock #3259 [ST1414L Fax & Voice modem] List \$279 \$189

HP OmniBook

RediCARD Data/FAX Modem PCMCIA type II for 100 or OmniBook

DATA RACE™
Connections for Computers™



Connect it to your Cellular Phone with optional adapter

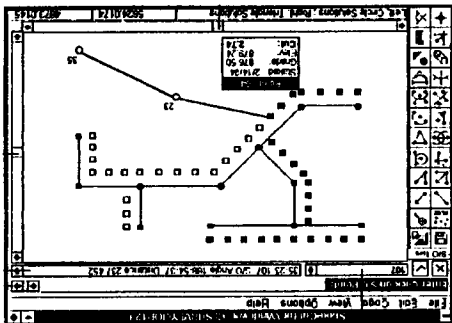
14,400 bps send/receive data via V.32 bis and 9,600 bps FAX via V.29—
with on-board error detection/correction and data compression. Automatically
slows down for bad connections and speeds up when the line improves.

Fits into any portable PC with a PCMCIA type II or III slot. Includes light-
weight RJ-11 cable. Cellular adapter (optional) is ultra lightweight (1.25 oz) with
low power consumption (35 mw)—uses intelligent Tone Burst Technology.

Stock #3213 [RediCARD Data/Fax Modem] List \$399 . . .	\$299.95
Stock #3214 [AT&T 3710/3730 Adapter] List \$129 . . .	\$99.95
Stock #3215 [AT&T 3760 Adapter] List \$129 . . .	\$99.95
Stock #3216 [Fujitsu PCX Adapter] List \$129 . . .	\$99.95
Stock #3217 [Motorola MicroTAC Ult/L Adptr] List \$129 . . .	\$99.95
Stock #3218 [NEC P100 Adapter] List \$129 . . .	\$99.95
Stock #3219 [NEC P200/300 Adapter] List \$129 . . .	\$99.95
Stock #3220 [OKI 900/910 Adapter] List \$129 . . .	\$99.95
Stock #3221 [OKI 1150 Adapter] List \$129 . . .	\$99.95
Stock #3222 [Pioneer PCC-700/900 Adapter] List \$129 . . .	\$99.95

StakeOut for Windows

**Mid-Atlantic
SOFTWARE**



Just one look is all it takes . . .

. . . to verify survey computations and construction stakeouts—you'll enjoy a new
and easier way to survey.

You'll get fast graphic feedback on cogo computations—so you can check data
as you go.

And when it comes to construction stakeout, you'll have what others only
dream about—points that you staked out are displayed with a solid block—you
click on one point that was staked out to display the date it was staked, the grade,
elevation and the cut or fill date.

Features include Circle and Triangle solutions with Areas, Cogo Programs,
Intersections, Horizontal and Vertical Baselines, Slope Stake, Elevations, Areas,
Rotate and Translate (simultaneously, with visual display of moving points)
Compass Rule, RPN Calculator.

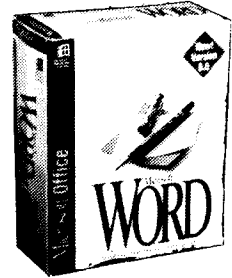
Cutsheets can store both points and station and offset information. You can
produce two separate reports, one for contractors and another that displays how
the points were staked out (so you can check your work).

Requires Windows 3.1 or later, 4MB RAM, disk drive and hard drive with
2MB free, VGA; mouse recommended. Free lifetime tech support and software
updates for 1 year.

Stock #3268 (StakeOut for Windows, 3.5") List \$395 \$299

Word for Windows 6.0

Microsoft

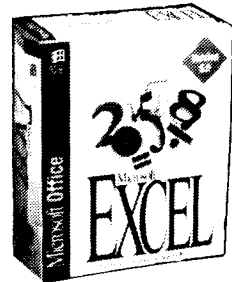


Everything you will want is in this, the
most popular word processor. We used it to
make up this catalog you're reading right now.

Stock #3256 (Word for Windows, 3.5") List \$495 \$299

Excel for Windows 5.0

Microsoft



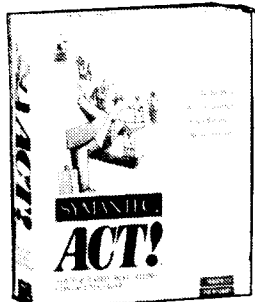
The most popular spreadsheet for
Windows—now has IntelliSense, to offer help
before you think to ask for it, to recognize
trends on your inputs and intelligently extend
them, to be an automatic calculator, and more.

Stock #3257 (Excel for Windows, 3.5") List \$495 \$299

Act! for Windows 2.0

Symantec

New



The top-rated, best-selling way to manage
your business relationships—now with full
email integration and fully networkable.

Stock #2735 (Act! for Windows, 3.5") List \$495 \$349

The Omni OmniBook Book

by David White

Brand New

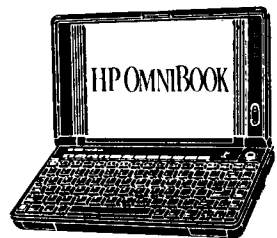
*Available
Fall '94*

Get the most out of your HP OmniBook
with these tips and techniques.

You'll trim down all that excess baggage
in your machine's memory to maximize your
disk space with the chapter on Opti-
mizations. Other chapters bring you up to
speed on Memory and Power Management,
Word Processors, Databases, Spreadsheets,
Personal Information Managers and Utilities.

But you'll be glad you got this book for the
Quick Tips chapter alone.

Stock #3260, Omni OmniBook Book, \$24.95



Read our mail from Georgia —

"We have been using EduCALC for many years
now for our HP needs and we have never
taken the time to thank you for your prompt
and courteous service."

Ross A. Lynn, Associate V.P., Keck & Wood, Inc., Atlanta

calculator stands, cases, & batteries

START HERE

First find your instrument in these lists, then check out the stands & cases that fit it. Buy your batteries from the list on p 30.

	Calculator	Battery No. x Size	Stands	Hard Leather Cases	Protective Cases	Vinyl Cases
A	HP10B, 14B, 17B(II), 20S, 21S, 22S, 27S, 32S(II), 42S	3 x A76	642, 2403 2127, 2326	2062	92169K	
B	HP18C, 19B(II), 28C, 28S	3 x N	769, 2025	2063	92169D/E/F	
C	HP11C, 12C, 15C, 16C	3 x A76	629, 998		92169B	82174
D	HP41C, 41CV, 41CX	4 x N	2403, 642, 2127	511		82111A
E	HP71B	4 x AAA				
F	HP48S, 48SX, 48G, 48GX	3 x AAA	2403, 2249, 2252	2225	2736, 2763 2865, 3000	82221A
G	HP 95LX HP 95LX1MB HP 100/200LX HP 95/100/200 RAM Card	2 x AA 1-CR2032 1-CR2025		2736, 2665, 2519, 2520 2764		

Manufacturer	Stock #	Battery No. x Size	Stands	Manufacturer	Stock #	Battery No. x Size	Stands
CI	CMIII	1 x CR2032	642, 2127	Psion	2963	2 x AA	
CI	CMIIITP	1 x CR2032	642, 2127	Sharp	PC3000	2 x AA, 1 CR2016	
CI	CISM	2 x CR2430	642, 2127	TI	TI30STAT	2 x A76	
CI	ECP	1 x CR2032	642, 2127	TI	TI68	1 x CR2032	642, 2127
Franklin	DBS11	4 x CR2032		TI	TI81/82	4 x AAA	2249, 2252
Franklin	LM3000	4 x AA		TI	TI85	4 x AAA, 1 CR1616	2249, 2252
Digitool	DCINCH	2 x A76		Casio	FX115D	solar power	
Digitool	DTTM	solar power		Casio	FX7000GD	3 x CR2032	2249, 2252
Sharp	OZ9600/II	4 x AAA		Casio	FX7000G	4 x CR2032	2249, 2252
Sharp	OZ7420	3 x CR2032		Casio	FX7700GB	4 x CR2032	2249, 2252
Sharp	EL9200C	4 x AAA	2249, 2252	Casio	FX8700G	4 x CR2032	2249, 2252
Sharp	EL9300C	4 x AAA	2249, 2252	Casio	FX6300G	2 x CR2032	

Desk Stands

Dramatic—give your desk a professional look
Sensible—avoid keying errors by putting your instrument at the right angle on non-skid feet
Eye-easing—reduce fatigue with a better view of your readout

Astech

Rigid Plastic Case & Stand—tough, good-looking protection—with a clever double hinge so it becomes a stand when open. Coffee brown.
 Stock #2326 [Rigid Case/Stand, size A]. \$18.95

EduCALC

Ice-clear acrylic stand—strong and thick, for desk-top sparkle.
 Stock #998 [Acrylic stand: Clear, size C]. \$14.95
 Stock #2025 [Acrylic stand: Clear, size B]. \$18.95
 Stock #2127 [Acrylic stand: Clear, sizes A, D]. \$9.95
 Stock #2252 [Acrylic stand: Clear, size C]. \$11.95

Brown plastic folding stand—adjustable viewing angle, quickly collapses for your pocket. *A Best Buy.*
 Stock #2403 [Plastic stand; Brown, size A, D, F]. \$5.95

Oak stand—dense, thick and sturdy—complements your desk and blends with other accessories.
 Stock #629 [Oak stand, size C]. \$14.95
 Stock #642 [Oak stand, sizes A, D]. \$14.95
 Stock #769 [Oak stand, size B]. \$19.95
 Stock #2249 [Oak stand, size F]. \$16.95

CHROME NAMEPLATE for your desk stand

Personalize any stand above with your own name, engraved in blackened letters on bright chrome-plated brass. Self adhesive backing. Please fill in boxes below for up to 16 engraved characters (including punctuation and spaces)—just tear out this page and send it with your order. Dimensions: .375" x 2".

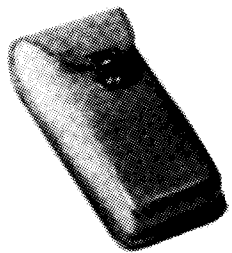
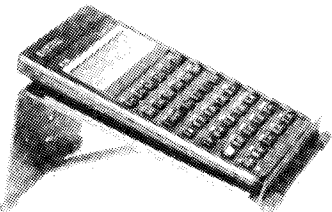
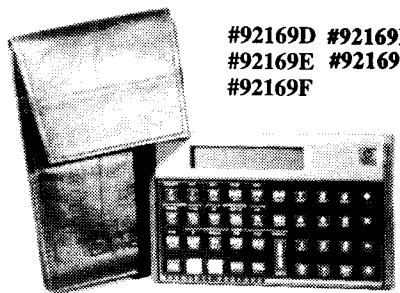

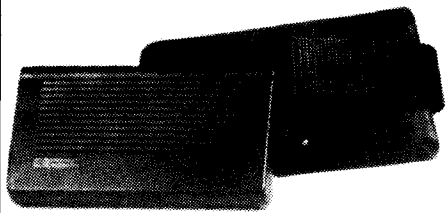

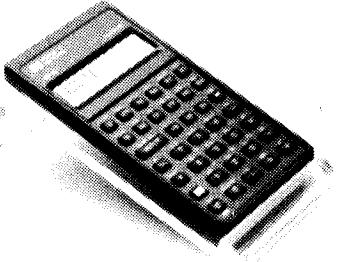
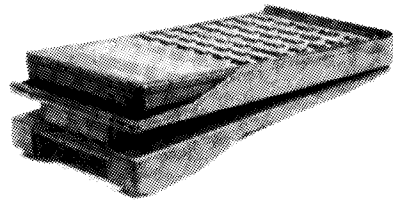

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Stock #AWNPN [Custom Nameplate: Chrome]. \$7.95

*Get Instant Gratification—
use our optional UPS Overnight Delivery!*

*Catalog shopping is convenient—
why suffer the mall?*

calculator stands, cases, & batteries

 <p>#2225 #511 #2062 #2063</p>	 <p>#2403</p>	 <p>#92169D #92169K #92169E #92169B #92169F</p>
 <p>#2763</p>	 <p>#2736</p>	 <p>#3000</p>
 <p>#998 #2025 #2127 #2252</p>	 <p>#2326</p>	 <p>#629 #642 #769 #2249</p>

Find out what fits your instrument in chart on preceding page

Hard Leather Cases

Outdoors—surveying, construction, line work
Inside the shop, factory, lab or mill

Insure your calculator—if you work rough and ready, protect it with rigid 8 oz brown cowhide. Rugged, professional looking, with broad belt loop.

These cases are handcrafted; they may require a long delivery time.

Stock #511 [Case: HP 41 without Crd Rdr, size D] List \$39 \$34.95
Stock #2062 [Hard Leather Case, size A] List \$35 \$34.95
Stock #2063 [Hard Leather Case, size B] List \$56 \$48.95
Stock #2225 [Hard Leather Case - 48SX, tan, size F] \$42.95

Soft Vinyl Cases



Just like the one that came with your instrument.

Stock #82221A [Vinyl case: Black, size F] \$14.95
Stock #82174A [Vinyl case: Black, size C] \$4.50

Belt Holster with belt clip

Stock #3000 [Belt Holster] \$14.95

Tuck-top wallet with a second layer of pliant cowhide

Stock #92169K [HP wallet: Black, size A] List \$19 \$17.95
Stock #92169D [HP wallet: Black, size B] List \$19 \$17.95
Stock #92169E [HP Wallet: Brown, size B] List \$19 \$17.95
Stock #92169F [HP Wallet: Burgundy, size B] List \$19 . . . \$17.95
Stock #92169B [HP Wallet: Black, size C] List \$14 \$11.95

the Leather Desk

Sumptuous black napa leather coddles your HP 48, Wizard or Psion 3 with extra padding for instrument protection. Software and memory cards fit into 6 slots, 2 pockets hold notes and diary. There's a zippered compartment for important documents and a loop for your pen.

It feels soft and rich in your hand, but there's a detachable carry strap, too. 8 1/4 x 5 x 1 3/4 inches outside.

Stock #2763 [HP 48 Leather Desk] \$57.95

In a hurry? Use our UPS 2ND DAY AIR

A Big Hurry? UPS OVERNITE AIR!

batteries

business calculators



Batteries

- Get extra batteries now—avoid memory loss—avoid shopping trips!
- Get fresh batteries from EduCALC—we sell the most calculator batteries, so we replace our stock fast!
- Premium brands (Eveready, Kodak, Duracell, etc.) guarantee longer life and freedom from leakage and corrosion—they're tested!
- Find out what fits your instrument in chart on page 27.

The most used calculator battery size is A76, an alkaline button which is also called LR-44, PX76A, 1166A or V13GA. The A76 may also be replaced with our super long life (at least 225% more) silver-oxide battery, S76 (also called SR44, EPX76, MS76, RS76, G13, V76PX or 1107SOP).

Stock #A76 (Alkaline battery) \$0.89
Stock #S76 (Silver oxide battery). \$3.20

The following alkaline batteries are usually the original equipment specification. We also offer nickel-cadmium (NiCd) rechargeables in most of these sizes (and rechargers)—please call us for details.

Stock #AA [Alkaline battery] \$0.89
Stock #AAA [Alkaline battery]. \$0.89
Stock #C [Alkaline battery] \$1.39
Stock #D [Alkaline battery] \$1.39
Stock #N [Alkaline battery] \$0.98
Stock #9V [Alkaline battery]. \$2.80

The lithium button-cells listed below last twice as long as alkalines.

Stock #CR1616 [Lithium battery] \$1.75
Stock #CR2016 [Lithium battery] \$1.75
Stock #CR2025 [Lithium battery] \$1.95
Stock #CR2032 [Lithium battery] \$1.95
Stock #CR2325 [Lithium battery] \$1.95
Stock #BR2325 [Lithium battery] \$1.95

New—Rayovac Rechargeable Alkalines

'Renewal' brand, last up to 3 times longer per charge than NiCds, recharge 25 to 100 times, ready to use new, hold their charge in storage, no memory problem, not harmful to environment. *You get lots more and pay a lot less!*

The portable wall unit PS1 will recharge up to 4 AA or AAA Renewal batteries, while the tabletop PS2 charges any combination of up to 8 D, C, AA or AAA cells. Renewal AA and AAA cells will charge in 3-5 hours, C and Ds overnight. No other type of cell can be charged in these units, and Renewal cells require them.

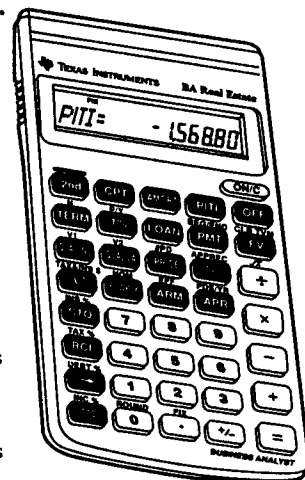
Stock #AARE [Renewal alkaline AA, Qty 4] \$4.99
Stock #AAARE [Renewal alkaline AAA, Qty 4] \$4.99
Stock #CRE [Renewal alkaline C, Qty 2] \$4.99
Stock #DRE [Renewal alkaline D, Qty 2] \$4.99
Stock #PS1 [Renewal Portable Charger] \$13.99
Stock #PS2 [Renewal Tabletop Charger] \$27.99

The HP 200 requires 2 AA batteries, and alkaline batteries come with it. If you replace them with NiCds, any one of HP's AC Adapters (#F1011A . . .) will act as a recharger. But, for most power per charge and least cost, use Rayovac's new 'Renewal' alkalines with their recharger.

Stock #NAA [NiCd rechargeable 500 m AH, AA] \$2.89
Stock #2784 [Hi-capacity NiCd 850 m AH, AA, Qty 2]. \$6.95
Stock #2785 [Hi-capacity batteries (2) w recharger]. \$24.95

BA Real Estate
everything you've wanted
in a RE business calculator
for professionals and students

**TEXAS
INSTRUMENTS**



- Buyer Qualification amounts calculated for both income and loan amount
- Calculates PITI (principal, interest, taxes and insurance)
- figures ARMs (adjustable rate mortgages) and Bi-Weekly mortgages
- TVM (time value of money) calculations and amortization schedules with an automatic increment feature

You'll find instant annual percentage rates using points and fees, total mortgage payments based on variable values entered, property appreciation.

You can even input local rates of tax, insurance and qualifying ratio values for your Buyer Qualification and PITI calculations.

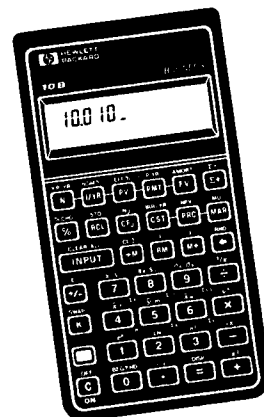
Display labels guide you through calculations. Includes guidebook and worksheets plus quick reference card.

Stock #TIBAIIRE [Real Estate Calculator] List \$60 \$47.95

HP 10B

**Algebraic entry—
for Business Professionals
and Students**

**Now —
Traditional HP reliability
is affordable**



**The HP 10B is the ONLY calculator
under \$40 that gives you ALL 3**

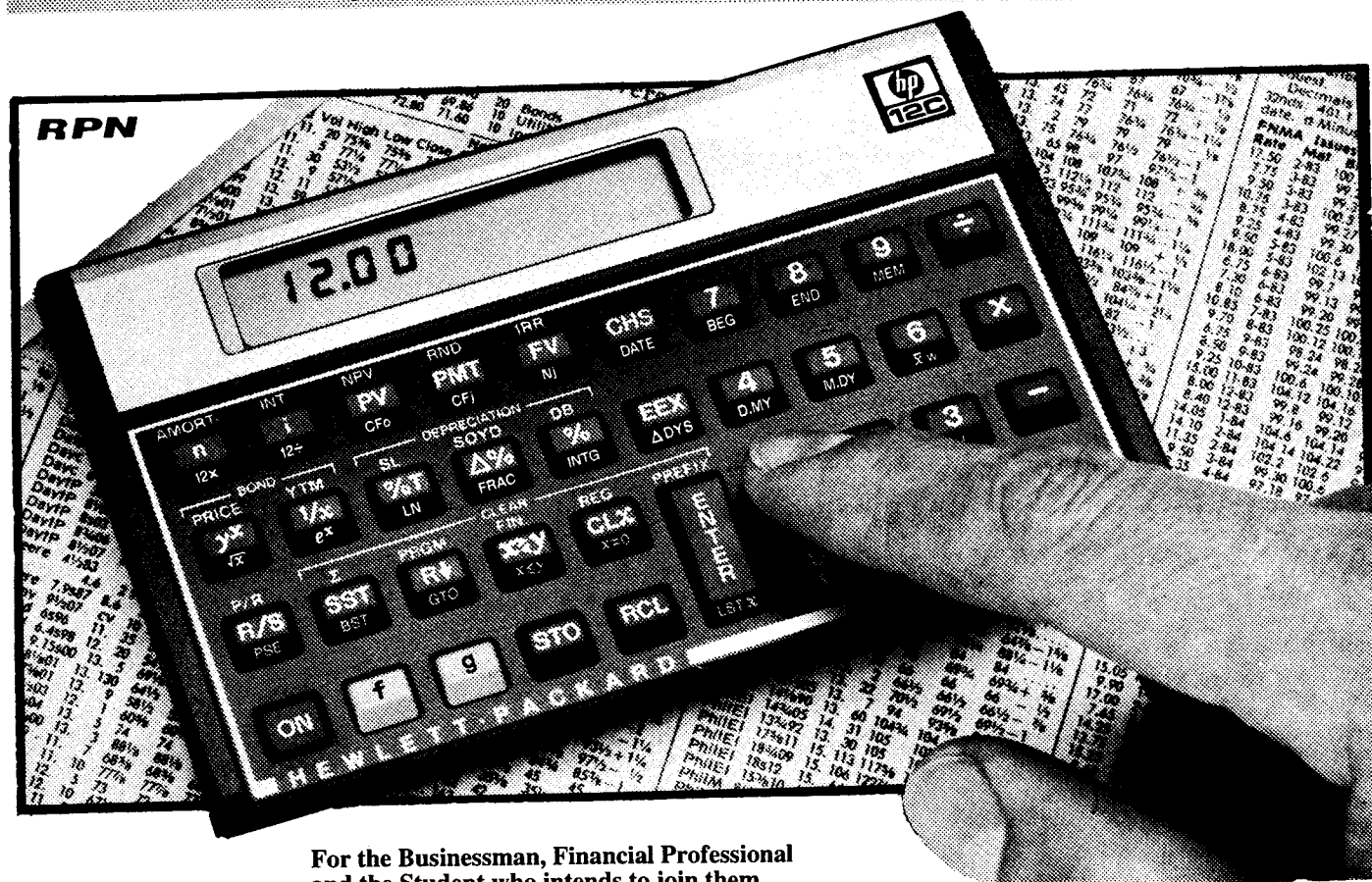
- **HP dependability** — molded keys, so the letters will never rub off and you'll never have to worry about sticking keys or double entries.
- **Label descriptors** — make it easy to understand and enter cash flows, and to see which values in a schedule are interest, principal and remaining balance.
- **Easy access to your solutions** — large 12-character display. Simple movement between functions, so you don't lose your data (no cumbersome 'compute' keys or mode switching, either). Auto-increment feature generates amortization schedules quickly.
 - **Essential business and finance functions** — time value of money, amortization schedules, cash flow analysis with IRR and NPV, interest rate conversions, percent and percent change, margin and mark-up.
 - **Statistics and math functions** — 1- and 2-variable statistics with mean, weighted mean, sample and population standard deviations, forecasting and linear regression, basic math functions.

15-memory registers (more memory than similar models, and it's more usable), automatic constant saves keystrokes on repetitive calculations. Special 3-key 'M' memory for simple, fast use.

Batteries, Manual, wallet included, 1 yr warranty.

Stock #HP10B [Business Calculator] List \$40 \$32.95

HP 12C business calculator



For the Businessman, Financial Professional
and the Student who intends to join them.



**BROKERS
LESSORS**

**ADVISORS
BANKERS**

**INVESTORS
CONSULTANTS**

Imagine Yourself . . . Calculating what-if answers with ease—right on the spot!!! Answering your client's questions instantly without tables. Being first with IRR and NPV figures, to the penny! Freeing yourself from arithmetic, so you can do the real thinking.

YOU CAN—get yourself an HP 12C calculator and buy the book or tape 'SELF SEMINAR' listed below that fits your needs. Then invest a couple of hours study time. You'll be delighted with your quick new power and ease.

FINANCE/BUSINESS: Solves for Number of Periods (n), Compound Interest Rate (i), Present Value (PV), Payment (PMT), and Future Value (FV); Amortization with Accumulated Interest and Remaining Balance; Net Present Value (NPV); Internal Rate of Return (IRR); Bond Yield and Price; Depreciation by

Straight-Line, Declining-Balance, Sum-of-Digits (SOD); Odd-day's Interest; Simple Interest; Percent, Percent Change and Percent of Total; Calendar Functions; Beginning- or End-of-Period selection; 5 Financial Registers.

STATISTICS: Summations; 2-Variable Statistics with Means, Standard Deviations, Linear Regression, and Correlation Coefficient; Factorial.

PROGRAMMING: Up to 99 Steps; Program Review; Unconditional Branching; 2 Conditional Tests; Pause.

Yet it's **FRIENDLY**—a first-time calculator user can expect to solve amortization and cash-flow problems with the 5 top-row keys in a matter of minutes!

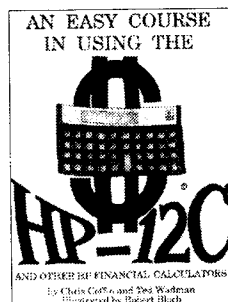
Stock #HP12C, List \$95 (Battery, case & manual incl) . . . \$74.95

An Easy Course in using the HP 12C

by Coffin/Wadman

Written just for you, to work at your own pace. You can relax, sit back and let these experts show you the way with lots of illustrations, example stories and quick reviews. This is a sometimes playful treatment, from the beginning, with many common applications in lending and investment analysis. It may also be used with other HP calculators, such as the 37, 38, 67/97 with pac software, and 41 with module software. HP #92234

Stock #260, Easy Course 12C, 256p wirebound \$19.95



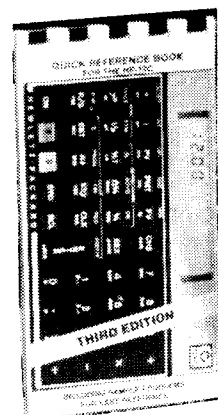
Quick Reference Guide for the HP 12C

by Evan Gost

This booklet is no bargain by the ounce—that's because it's been boiled down so it fits in your shirt pocket (even with cigarettes there), or in the 12C case. It is a training guide and ready reference which supplements your Owner's Handbook. The author also gives seminars on the use of the 12C, so he knows what you need.

Believe it or not, this little book contains methods and examples covering every function of the calculator—plus more examples to steer you through problems complex enough to require two-stage solutions. It's concise, complete and useful.

Stock #243, 12C Quick Reference Guide, 36p softbound . . . \$5.50

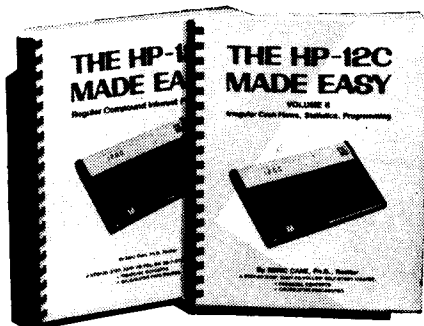


Calculator batteries, stands & cases: see pp 28-30

HP 12C business calculator

The HP 12C Made Easy by Edric Cane

Open the box, open this book, and you're in business — master teacher Edric Cane will not so much simplify it as make it obvious. A realtor himself, Cane chooses examples mostly from real estate. They illustrate all the compound interest features on the HP 12C for regular cash flows. No prior knowledge of the calculator is assumed (and this course can be used with the HP 37, 38 and 41 machines as well).



This book was born in seminars where thousands of students have successfully gotten understanding and power—seminars at UCLA and UC Berkeley and to boards of realtors, executives and investors from New York to Hawaii. It anticipates your questions and gives clear, complete explanations of concepts.

Stock #273, HP 12C Made Easy, 246p combbound \$19.95

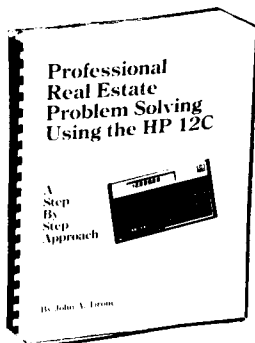
Professional Real Estate Problem Solving Using the HP 12C

by John Tirone

Your confidence will grow with every problem and example you do—you'll learn why and when, not just how, to do them.

Author Tirone is an attorney who has taught thousands of RE professionals how to calculate the numbers they need to make money fast. You'll like his clear, step-by-step instructions and simple explanations—most of all, his practical examples.

Stock #2859, 12C RE Problem Solving, 271p combbound . . . \$27.95



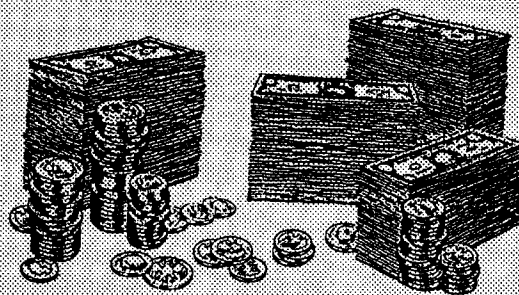
Shopping by mail is fun—something we can all use more of.

HP Wallet



Stock #92169K [HP Wallet, black] \$17.75

HP Applications Books



The HP 12C Training Guide



New! A self-seminar from Hewlett-Packard that begins at the beginning and ends with you feeling comfortable with your HP 12C. Lots of examples, tests with answers, summaries and reviews will guide you. When you're finished, you'll be able to calculate mortgage payments, loan amounts, determine IRRs, write and run a program, and much more!!

Stock #90022, 12C Training Guide, 169p softbound . . . \$16.95

HP 12C Solutions Handbook

Here are keystroke procedures from Hewlett-Packard supplementing your owner's handbook for applications to real estate, lending, savings, investment analysis, securities, forecasting, pricing, statistics, personal finance, Canadian mortgages, and more.

Stock #477, HP 12C Solutions, 152p softbound \$14.95

HP 12C Leasing Applications Handbook

Stock #90021, Leasing Applications, 117p softbound . . \$14.95

HP 12C Real Estate Applications Handbook

Stock #90015, Real Estate, 102p softbound \$19.95

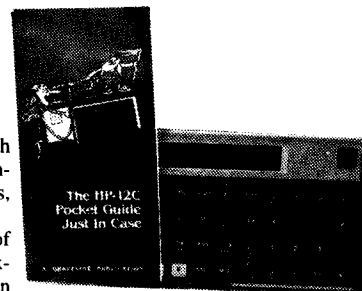
The HP 12C Pocket Guide: Just in Case

by Coffin/Wadman

Jiffy HELP that fits in the pouch with your HP 12C—yet it is complete enough, with Descriptions, Instructions and Examples.

It covers every common type of problem, even guides you with (excellent) diagrams and illustrations in the authors' humorous style. It is quite well-written, plus you'll recognize the keyboard colors printed right in the instructions. Could you ask for more?

Stock #649, 12C Pocket Guide, 50p softbound \$6.95



HP 12C Video Training Program

Just pop this in your VCR and relax. Your trainer, Dale Hillard, takes you right from keyboard layout through programming basics — this full 2-hour training session gives you an end run around that owner's manual.

Former college professor Hillard is the RE broker that conducts HP 12C workshops nationally for the RE, banking and financial industries.

Stock #2182 (HP 12C Video Training Program) \$44.95



HP 17BII business calculator

New model 17BII—it has HP's time-tested RPN entry system AND it has the Algebraic System common to other calculators. You choose—RPN or Algebraic—it does BOTH, and you can change it any time—you decide. You can even try out either system while you use the other.

■ Business and Finance

- Amortization with table printout
- Bonds; price, yield
- Date arithmetic
- Depreciation
- Interest rate conversions
- List-based cash flows
- Mark-up as percent of price and cost, percent change, percent total
- Number lists; edit, sort, store
- Time value of money

■ Statistics and Math

- Mean, standard deviation (1 or 2 variables),
- Weighted mean
- Forecasting/curve fitting
- LN, LOG, e^x , 10^x , y^x , \sqrt{x} , x^2 , $1/x$

RPN
Algebraic

■ Time and Dates

- Appointments and alarms
- Clock, calendar



HP 17BII

To calculate the price or yield Fitting and Forecasting

N= 360.00
I%YR= 12.50
PV= 65,000.00
PMT= -693.00
FV= 0.00
P/YR= 12.00
END MODE

Week 1
Week 2
Week 3
Week 4
Week 5

f Minutes
diverting
MINUTES)

360.00
12.50
65,000.00
-693.00
0.00
12.00

FORE: NEXT=OLD+(R%
CALC EDIT DELET NEW

25.0011091613
AP1: 0.00178353971

$$F\% = \left[\left(1 + \frac{NOM\%}{100 \times P} \right)^P - 1 \right] \times 100$$

- 6,500 bytes of Usable Memory
- Algebraic Entry System with Menus and Softkeys for Easy-to-Use Power
- State-of-the-art Vertical Design with one-piece keyboard/case (robot assembled) and the sleek lines of a new German car
- HP SOLVE — enter custom equations without programming
- Clock, Calendar and InfraRed Printer interface

It's 15 times faster than the HP 12C, and displays more than 4 times as much information. This powerful calculator from Hewlett-Packard is an indispensable companion for all the business problems you face daily. Practical, dependable, the HP 17B is by far the most function-packed business calculator you'll find anywhere for the price.

The HP 17B's powerful set of functions includes time value of money, amortization, discounted cash flows (NPV and IRR), interest rate conversions, percentage calculations, bonds, depreciations and more.

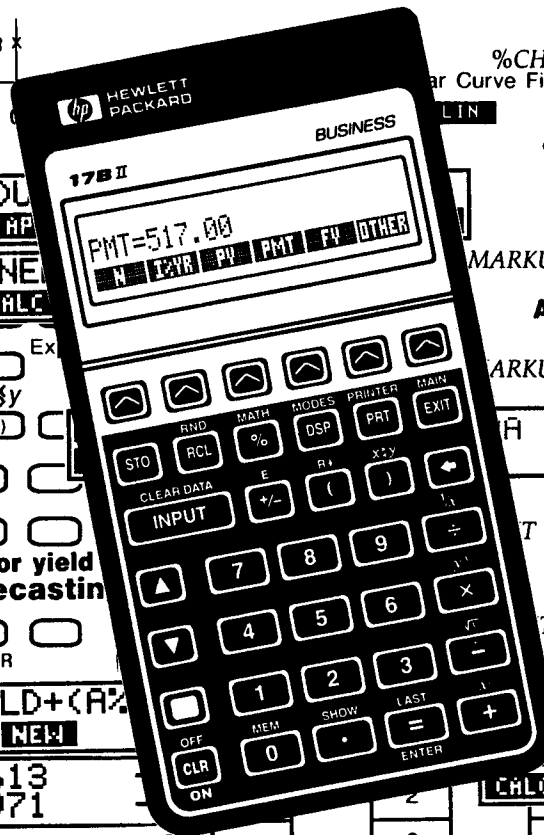
You'll use the HP 17B's list-based cash-flow and statistics functions to find solutions for a wide variety of business problems. Plus, you can store lists of data for quick retrieval, editing and calculating. And the HP 17B keeps a running total as you go.

You can analyze your sales by fitting them to four different curve models and use the HP 17B's forecasting application to predict future sales. In addition, this multipurpose calculator performs time calculations and reminds you of pending appointments.

And 6,500 bytes of usable memory mean you have enough room to store everything you need. Manual, batteries, soft case included; 1 yr warranty.

Stock #HP17BII [Business Calculator] List \$110 \$84.95

Calculator stands, cases & batteries: see pp 28-30



The TVM Menu

$$\%CHANGE = \left(\frac{NEW - OLD}{OLD} \right)$$

$$\%TOTAL = \left(\frac{PART}{TOTAL} \right)$$

$$MARKUP\%C = \left(\frac{PRICE - COST}{COST} \right)$$

A Mortgage with a Ba

$$MARKUP\%P = \left(\frac{PRICE - COST}{PRICE} \right)$$

FLOW(0)=
CALC INER

$$1 - \left(1 + \frac{ANNU}{1200} \right)$$

$$T \times USPV (i\%:n) + FV$$

M(1)=?

CALC INER DELET NAME

To do curve fitting and for

InfraRed Printer

for your HP 17, 18, 19, 27, 28, 41 with IR Module, HP 42 or 48



Get hard copies of all your graphics, data, programs or calculations. This silent thermal printer operates on four AA alkaline batteries (included) for go-anywhere portability — a set of batteries prints about 6000 lines, or there is an optional AC Adapter.

Printer connection cords have been replaced by an invisible infrared beam from your HP calculator. It's the only link required for your printing needs.

You have plenty of leeway — up to a foot and a half — to put the printer where it's most convenient for you. Just point your calculator at it and push [PRINT]. No cords to tangle with.

Print speed with fully-charged batteries is just a shade over a half second per 24-character line. By putting the printer in TRACE mode, you can print out a complete record of the numbers you've used in your calculations, as well as your results. Or print selectively and provide clients with copies of quotes, amortization tables or itemized lists.

Stock #82240B [Portable InfraRed Printer] List \$135 \$115.95

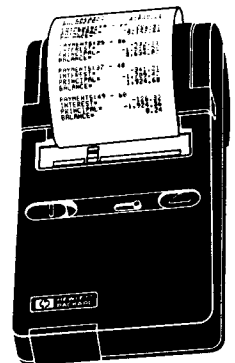
Stock #F1011A [AC Adapter for IR Printer] \$34.95

Stock #82175A [2.25" Printer Paper, black, 6 rolls] \$9.95

Stock #AA [Batteries, Printer uses 4]. ea \$8.99

Stock #92169H [Cover, brown] \$22.95

Foreign adapters available; see page 13 (palmtops section).

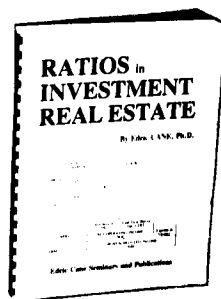


HP 17BII business calculator

Ratios in Investment Real Estate

by Edric Cane

New



- Real Estate Investors
- Income Property Brokers
- Income Property Lenders
- Property Managers
- Lawyers
- Accountants
- Appraisers

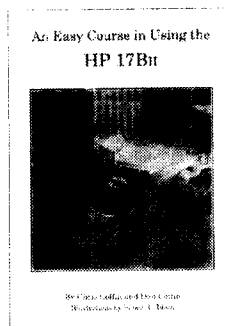
Beginners may end up saying, "Hey, I didn't know I liked numbers." Part I here will bring you up to speed.

Seasoned investment professionals may get a better way of explaining a concept or presenting a choice to a client. Part II will give a clear understanding of the interconnecting grid of values and ratios—GRM and CAP. Rate, Loan Constant, Cash-on-Cash Return, Debt Coverage Ratio.

Requires calculator with HP Solve function, HP 17BII, 19BII, 48, 95/100/200.
Stock #3026, Ratios in Investment RE, 104p combbound . . \$27.95

An Easy Course in Using the HP 17BII

GRAPEVINE PUBLICATIONS, INC.



A clear, straightforward explanation of your HP 17BII. It's written in Grapevine's friendly style, so it's easy to understand, right from the first.

You'll learn to work with menus, lists, arithmetic—how to develop your personal list of equations. Then you'll explore the built-in financial equations, the 'hows' and 'whys' of loans, mortgages and investments—and make sense of them all with the Time Value of Money keys NPV, NFV, IRR, and MIRR.

Clear diagrams and explicit, worked-out examples from Savings, Real Estate and Banking will tie it all together for you, painlessly!

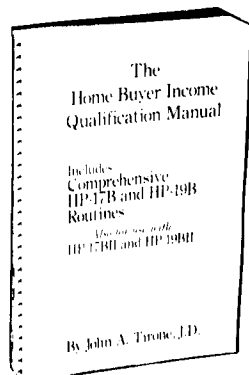
Stock #540, 17BII Easy Course, List \$23 \$19.95

The Home Buyer Income Qualification Manual

HP 17 and HP 19 Routines

by John Tirone

- Realtors
- Investors
- Loan Officers

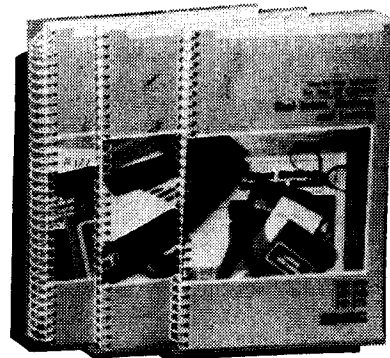


Don't chase deals that cannot income-qualify! It beats the back of the envelope and the paper napkin by miles—your calculator automatically takes account of lending ratios, taxes, other expenses and debt load, and returns to you standard PITI, annual income to qualify, required down payment, or average after-tax payment cost as a function of holding period. Manual has explanations, formulas, examples and practice problems with all its programs

Stock #2187, Home Buyer Qualif Manual, 73p wirebound . . \$9.95

Step-by-Step Books for Business

Using the HP 17B, 19B and 27S

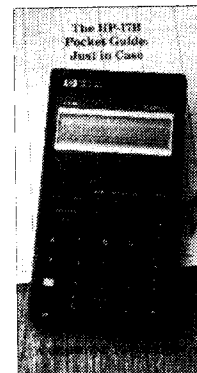


Let experts help you set up your calculations so you can work with them most easily. These professional references include practical routines and tips for getting the most from the Built-in Menus as well as setting up Personal Menus for your specific profession. Order the ones that fit your work.

Stock #544, Real Estate, Banking, Leasing \$14.95
Stock #545, Business, Finance, Accounting \$14.95
Stock #546, Marketing, Sales \$14.95
Stock #547, Personal Invest, Tax Plan \$14.95
Stock #548, Tech Applications using HP Solve \$14.95

The HP 17B Pocket Guide: Just in Case

GRAPEVINE PUBLICATIONS, INC.



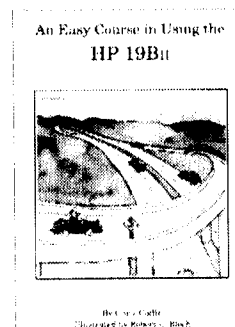
Refreshes your memory after you have completed the Easy Course. Lots of examples to follow, each with keystrokes and explanations. And this Friendly Companion fits right in your calculator's case.

Stock #2022, HP 17B Pocket Guide, 64p softbound \$6.95

We guarantee everything we sell. You may return it to us in new condition within 30 days for a full refund, no questions asked.

An Easy Course in Using the HP 19BII

GRAPEVINE PUBLICATIONS, INC.



Your own "Driver's Training Course" for the 19BII—quick & easy.

First shows you how to use menus, lists and arithmetic, in either RPN or algebraic notation. Then you get lots of "on-the-road training" in financial problem-solving and cash-flow analysis. Perfect for HP 19B as well.

Stock #541, Easy HP 19BII, 320p softbound \$19.95

"We recommend HP financial calculators to our commercial banking clients because they are the accepted standard—the only creditable solution on the market." *Globecon Group, international banking consulting firm, New York City, New York*

HP 19BII Business Consultant II

John C. Dvorak of the *San Francisco Examiner* and *PC Magazine* calls the Business Consultant "The hottest new portable super calculator." He likes the printer, too: "Forget about RS-232 cables. This is the way to go. Watching a little printer magically print data from an infrared link is both eerie and exciting."

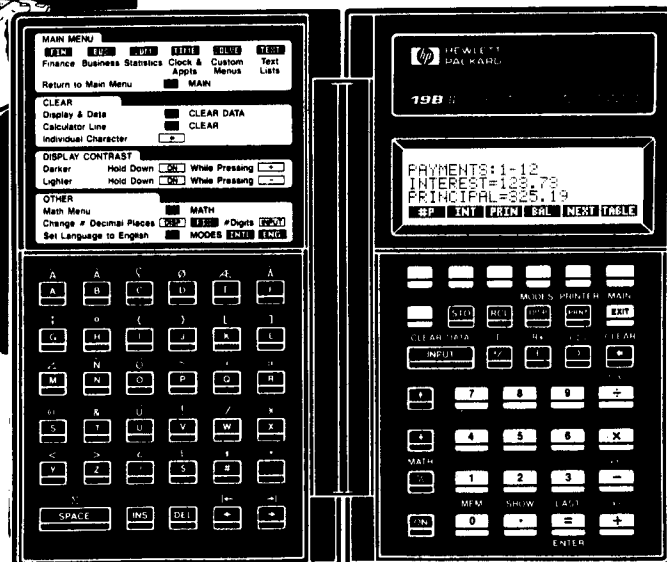
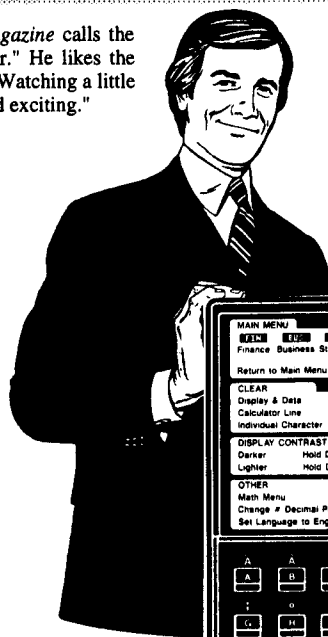


**Data-Saving and Sorting
Power**

**Problem-Oriented
Power**

**Time-Managing
Power**

**Menu-Driven
Power**



New model 19BII—
it has HP's time-tested RPN entry system AND it has the Algebraic System common to other calculators. You choose—RPN or Algebraic—it does BOTH, and you can change it any time—you decide, and you can even try out either system while you use the other.

Solve your special problems WITHOUT PROGRAMMING!

USER DESIGNED POWER—Hewlett-Packard asked people like yourself what they wanted in a finely-designed business calculator. Now you've got it. There are 2 straightforward keyboards—one has numbers and function keys while the other keeps your alphabet separate for typing ease—yet the Business Consultant II folds for your pocket. The revolutionary 4-line LCD screen shows you the numbers you're calculating with, or menu options to choose from. An infrared printer interface drives the optional printer, without bothersome cables.

MENU-DRIVEN POWER—the Business Consultant II is self-guiding, with Prompts in English, so you'll find it easy to use right from the start. You won't be referring to the manual very often.

Standard business formulas are already built in. Simply make a choice, then push a button.

To help you find your way around, menus—a series of headings—appear on the Business Consultant's four-line screen.

They make these functions push-button close:

- Interest rates
- Time and appointments
- Payment schedules
- Markup and margin
- Statistics
- Internal rate of return
- Interest rate conversions

• **PROBLEM-ORIENTED POWER**—the Business Consultant II is smart, so you'll only tell it the problem formulas, and it will figure out how to solve your problem for you. No more will you need to program your solutions; just tell your BUSINESS CONSULTANT what the problem is!

• **TIME-MANAGING POWER**—the Business Consultant II is punctual, so it will remember appointments for you—and remind you with a beep. In addition to the 19B's calendar, there's a handy clock in it, and memory for your expenses, so you can note them right on the spot. With the clock you can keep track of billable time.

• **DATA SAVING & SORTING POWER**—when you key in data to do statistical analysis (say, mean and standard deviation even on weighted data) your Business Consultant II remembers every data point, not just those sums it uses to calculate your statistics. Furthermore, it will sort your data points, so you can find their minimum, maximum, range, median, mode, and percentiles, or print them all out in sorted order.

The Business Consultant II does bond price/yield/depreciation, plus all the

usual financial calculations, percent, compound interest, cash-flow analysis, calendar, statistics, factorial, trig, probability, and $\ln x$, e^x , y^x —all the functions you expect.

Its new power includes Interest Rate Conversions, Markup as % of Cost and Price, Net Future Value (NFV), Net Uniform Series (NUS), Clock Functions, Appointments and Alarms, Logarithmic and Exponential and Power Curve Fitting, Currency Conversions.

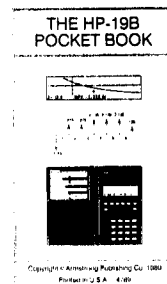
It calculates with Algebraic Logic, dealing with equations just as you write them. It has 6500 bytes of RAM memory for your own customized menus, equations or data, and it remembers everything while it's turned off. It's 15 times faster than the HP 12C, and displays more than 9 times as much information.

The Business Consultant II is 3 5/8" wide by 6 1/2" high and 5/8" thick when folded; open, it's 7 1/2" wide. Owner's Manual and batteries included.

Stock #HP19BII [Business Consultant II] List \$175 \$134.95

HP 19B Pocket Book

by James Donnelly



All the help and reference you'll want to have along with you—fits right in the case with your instrument.

Covers calculator operation and all the functions, using menus, printing, etc. Details with examples for TVM, amortization, even and uneven cash flows, bonds, depreciation, more. How to use time and appointment functions, equation solving, text lists, exchange rates and conversions.

Stock #2142, 19B Pocket Book, 60p softbound \$6.95

Calculator batteries, stands & cases: see pp 28-30
InfraRed Printer: see p 33

school calculators

Notice to Educators -

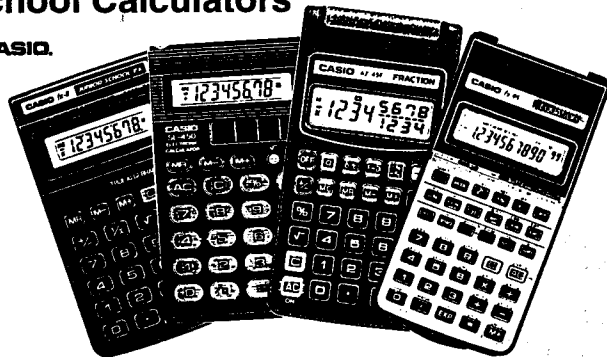
EduCALC is your distributor for school calculators—from TI, HP, Sharp and Casio—designed to follow your student's progress, K through 12, in his or her American classroom.

Call our School Specialist, Brent Martin, at (800) 677-7001, ext. 129 for your best wholesale price in large or small quantities (min. 10). We'll deliver them to you quickly.

Please address your Requests for Bids to Brent, also.

School Calculators

CASIO



Best-Buys from the world's largest manufacturer of calculators! Casio is your school's partner, with a Loaner Program, Classroom Sets from EduCALC, plus Textbooks and Workbooks and Video Tapes to support you—they even publish the quarterly newsletter, *The Electronic Classroom*, to keep you abreast.

For Grades K through 3: Casio SL-450

Full-featured yet rugged, with solar power, 8-digit display (including function signs and floating minus sign), hard plastic keys and a durable, slide-on case that attaches to the back of the unit during use.

Stock #SL450 [School Calculator] 7.95

For grades K through 6: Casio fx-8

8-digit display includes function signs with 20,000 hour AA battery power. Full set of features including percent and reciprocal. Connected hard case.

Stock #FX8 [School Calculator] \$12.95

For grades 4 through 8: Casio AZ-45F

True fraction display shows numerator over denominator, with large whole digits. Division with remainder and decimal/fraction conversions and automatic simplification of fractions. Two AA batteries, hard keys and case.

Stock #AZ45F [Fraction Mate Calculator] \$19.95

For grades 7 through 8: Casio fx-95

10-digit plus 2-exponent display. Fractions, simultaneous equations and quadratic equations solvers, random numbers. Swing-back hard case.

Stock #FX95 [Solver Calculator] \$16.95

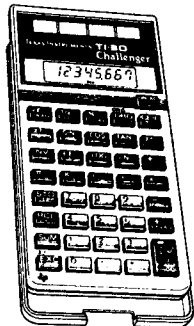
TI Calculator Posters

TEXAS INSTRUMENTS

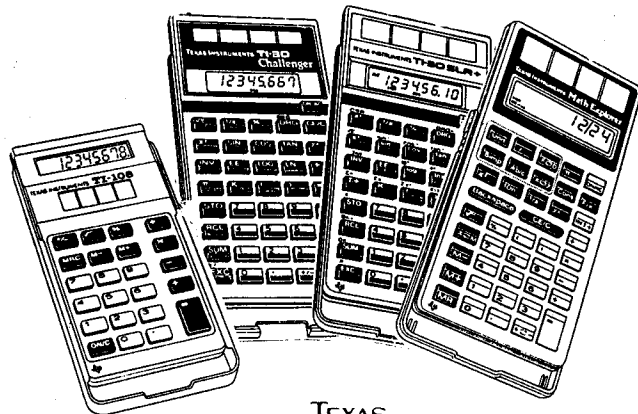
Brand New

Now you can buy them separately—these are the same posters, 34 × 22 inches, that come in the TI Teacher Packs. To order, please make up the stock number like this—for a TI 108 poster, you'll order stock number POST 108, while a TI 85 is shown on POST 85. They're available for TI 108, 12, 7, 30C, 34, 81, 82, 85.

Stock #POST _ _ _ (TI _ _ _ Poster) \$2.99



School Calculators



TEXAS INSTRUMENTS

Each model is *ANYLITE* solar-powered and has a big 8-digit LCD display. Each has its large keys color coded and arranged in 'zones' for easy, natural learning.

Each model is engineered for heavy use in schools—impact-resistant, with a clever slide-on case that can take a beating. These calculators are the same units we ship to schools and do not come in a fancy box. Instructions included; 1-year warranty.

For grades K through 4: TI-108

Four basic functions plus percent, square root, and plus/minus keys, as well as automatic constant.

Stock #TI108 [Grade School Calculator] \$6.50

For the Youngest Students: TI Math Mate

AOS Algebraic Operating System with parenthesis and memory keys—tough case is attractive red with yellow buttons.

Stock #TI7 [Math Mate] \$8.50

For grades 4 through 8: TI Math Explorer

4-8th grade students do fraction arithmetic on this unique calculator—input, display, simplify and manipulate fractions or whole numbers. They get other functions, too, like integer division with whole-number remainder results, and place value computations.

Stock #TIME [Math Explorer] \$20.95

For grades 7 through 10: TI-30 Challenger

All basic math, trig and scientific functions, including logarithms, anti-logarithms, and pi. Large color-coded keys speed calculations, minimize errors.

Stock #TI30C [Challenger 30] \$15.95

For grades 9 through 11: TI-30XSLR & TI-34

TI-30 XSLR has the functions HS teachers want for college prep—log and antilog, trig and 1-variable statistics.

TI-34 has all the functions of the TI-30XSLR and also does hex/binary/octal conversions, Boolean logic and fractions. 10-digit display.

Stock #TI30XSLR [Sci/Stat Calculator] \$17.95

Stock #TI34 [Advanced Scientific] \$20.95

See our projectable calculators, for overhead displays, on p 37. See calculator activities books on p 39.

projectable calcs

graphics calcs

Educator Overhead-Display Calculators

Excite and motivate your students—just lay your Educator on the stage of a standard overhead projector. It's transparent, so your whole class will see every keystroke, every result.

ELEMENTARY model emulates TI Math Mate, BASIC model emulates TI-108, INTERMEDIATE model emulates TI Math Explorer, SCIENTIFIC model emulates TI-30. Solar powered; comes with vinyl case.

Stock #2572 [Educator ELEMENTARY Calculator]	\$39.95
Stock #2195 [Educator BASIC Calculator]	\$39.95
Stock #2196 [Educator INTERMEDIATE Calculator]	\$79.95
Stock #2197 [Educator SCIENTIFIC Calculator]	\$79.95
Stock #2325 [Educator TI-34 Calculator]	\$79.95

InVision 48 Overhead Display for HP 48SX/GX

Firmware Systems

Giant 7" LCD panel sits on OH projector stage—projects large, clear image without using an enlarger. Connects via card slot to calculator (not included).

Stock #2778 [InVision OH Display] List \$550. \$489.95

TI-81, TI-82 or TI-85 ViewScreen

TEXAS INSTRUMENTS

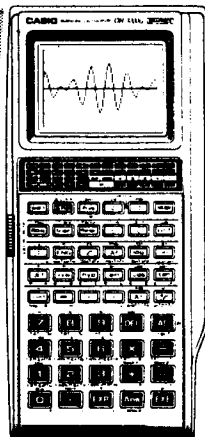
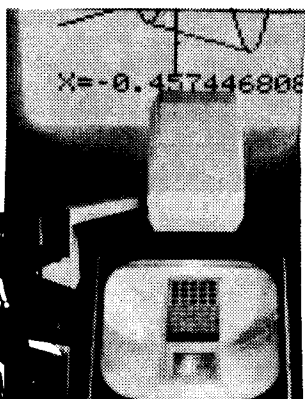
All features and functions of the TI-81, TI-82 or TI-85 in a hand-held control unit that is connected by a 10-foot cable to its display unit which will fit on top of most any OH projector (not for high-intensity or reflective-type projectors).

Package includes Overhead Enlarger, Thermal Absorption Device, Guidebook, calculator/display unit, 4 AAA batteries and a rigid case for it all.

Stock #2328 [TI-81 ViewScreen]	\$315
Stock #2733 [TI-85 ViewScreen]	\$449
Stock #2791 [TI-82 ViewScreen]	\$349

Overhead Projectable Model

Casio



Price
Reduced!

All features of the fx-7000G plus a transparent screen.

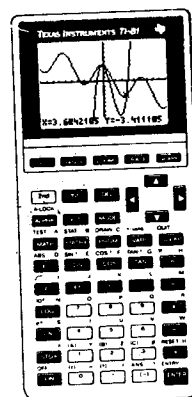
Stock #OH7000G [Overhead Projectable Display] \$274.95

*EduCALC has lots of
items you can't find in a store.*

TI-81 Graphics Calculator

TEXAS INSTRUMENTS

Best Buy



Superior interactive graphing features—so you'll have the power to easily analyze the behavior of several functions at once and solve equations graphically. 7 Zoom functions.

Pull-down display menus—so you'll quickly access more than 300 advanced scientific functions.

8 line by 16 character display—so you'll view the entire expression as you enter it, as well as see the results you've calculated. 6 × 6 matrices.

Big Constant Memory—so you can save up to 37 programs totalling 2400 bytes, using up to 27 stored variables. List-based statistics.

Manual, protective slide-on cover, batteries included; 1 year warranty.

Stock #TI81 [Graphics Scientific Calculator] List \$115 ~~\$79.95~~

Stock #PC81 (Emulator Software for PC, 5.25") ~~\$45.95~~

TI-82 Graphics Calculator

TEXAS INSTRUMENTS

The new way to go through calculus and statistics—special powers like cobweb graphs, function tables, split screens and box/whisker plots.

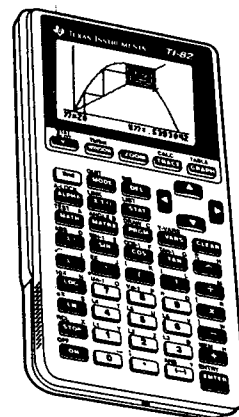
All the popular features of the TI-81—almost all the TI-81 keys are in the same places, so you can pick the 82 up and use it instantly!

Improved data analysis and matrix functions, two new graphing modes (polar and sequences or webs), zoom decimal, plus instant zoom for finding roots and intersections. Definite integrals, derivatives and lists.

Best of all, you can link to other 82s with included cable and to PCs and MACs with optional Graph Link. Guidebook, slide-on cover, cable, batteries; 1 yr warranty.

Stock #TI82 [Graphics Calculator] List \$125 \$97.95

Stock #2792 [TI-Graph Link, cable] List \$70 \$61.95



TI-85 Graphics Calculator

TEXAS INSTRUMENTS

- ✓ professionals
- ✓ students

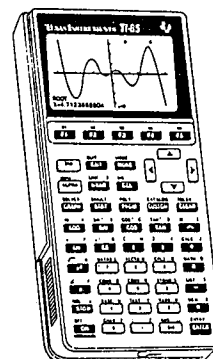
Your powerful visual tool for advanced math, science and engineering—now you can store, graph and analyze up to 99 functions, parametric equations and polar functions, plus differential equations. 5 redefinable menu keys.

Solve for any variable in an equation, or 30 equations simultaneously—find roots of polynomials up to degree 30. Solve calculus problems both numerically and graphically. Complex numbers.

Programmable with branching and looping; 32K bytes RAM. BIG screen shows 8 lines of 21 characters text or 64 × 128-pixel graphs—2 levels of display menus. Main and back-up batteries included; 30" cable and I/O port for data sharing between two TI-85s; 352-page guide book; slide-on cover; 1 yr warranty. Graph Link connects you to a PC or Mac.

Stock #TI85 [Graphics Calculator] List \$135 \$119.95

Stock #2792 [TI-Graph Link, cable] \$61.95



graphics calculators

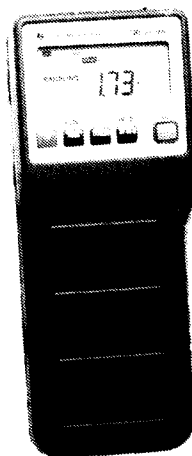
CBL

Calculator-Based Laboratory
data-acquisition for your TI 82/85

TEXAS
INSTRUMENTS

Brand New

*Available
August '94*



CBL is a handheld, battery operated, portable data-collection device for 'real-world' data.

Your data can then be directly downloaded to the TI 82 or TI 85 graphics calculator for analysis. With the CBL system you can measure motion, temperature, light, sound, pH, force, and more.

You get 3 probes (or 'sensors') with your CBL system, for temperature, light intensity and voltage. Plus you can use an adapter (optional) with existing third-party probes to sense force or pH, or to detect motion ultrasonically.

The CBL has 5 input channels, 3 Analog, one Ultrasonic Motion Detector and one Digital. There's one Digital Output channel. Data can be collected from all 5 inputs simultaneously, at up to 512 points per second per channel, with single channel rates up to 12,500 points per second.

CBL connects to your TI 82 or 85 via the I/O cable that comes with the calculator. Both calculators and Viewscreens that we are now selling will support CBL. Comes with User Guide, Workbook of math, chemistry and physics experiments, and a hard-sided, impact-resistant case. Additional probes will be offered later.

Stock #3250 [Calculator-Based Laboratory] List \$225 . . . \$199.95
Stock #3046 [AC Adapter] List \$19 . . . \$15.95

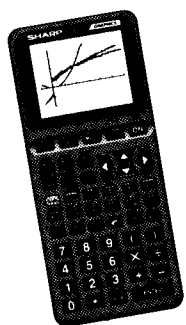
Graphing Calculators EL-9200C

SHARP
FROM SHARP MINDS
COME SHARP PRODUCTS™

- Algebra I through beginning Calculus
- user-friendly statistics
- Graphing and visual exploration
- 14-digit internal precision
- of multiple functions
- numeric integrals and derivatives
- an interactive programming language
- matrices, determinants, transposes
- high-contrast super-twist display

Zoom in on 4 live equations and 99 stored equations—**box**, in, out factor; **auto-range** and 18 default ranges; **jump**, intersect; **trace** x, y, dx/dy. 99 titled programs with BASIC-style commands.

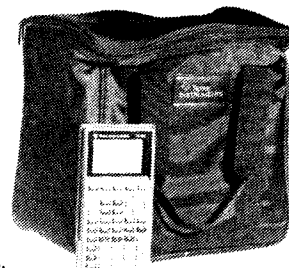
Stock #EL9200C [Graphing Calculator] List \$120 ~~\$169.95~~ **\$79.95**



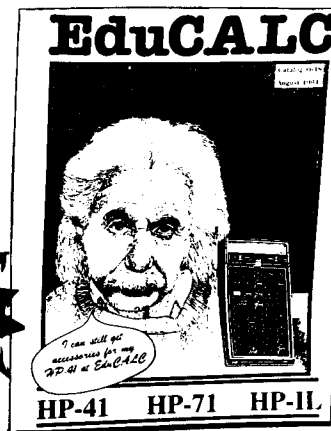
Read our mail from Switzerland -

"Both deliveries were just perfect and I am very satisfied with these products. I would like specially to thank you for your prompt execution of my order and I will of course place in future further orders with your company and will also recommend your company for its splendid service." Dr. S. Pugatsch, Zuerich

Black Nylon Tote Bag



Holds 30 graphing calculators.
Stock #3011 [Nylon Tote Bag] . . . \$19.95



Fantastic Savings for HP41/71 owners!
To get a FREE HP 41/71 Accessories Catalog,
call (800)677-7001, ext 134.

Entry Coupon—

Free Calculator Drawing

Fill out and return this coupon to EduCALC before
November 15, 1994, to enter (no purchase necessary).

1. What category of machines do you presently use?
☐ Calculator ☐ Laptop ☐ Notebook
☐ PDA ☐ Palmtop ☐ Desktop
2. Are you considering the purchase of an HP OmniBook?
☐ Not at all ☐ Very interested
☐ Thinking about it ☐ Will probably buy one
3. What programs would you expect to run on a portable computer such as an OmniBook?
☐ Quicken ☐ Quattro Pro
☐ ACT! ☐ Microsoft Office
☐ Microsoft Word ☐ Word Perfect
☐ Print Shop Deluxe ☐ Norton Utilities

I want a free ☐ TI-82 ☐ HP 32SII ☐ HP 71BU ☐ HP 17BII

Send it to me, _____

(street) _____

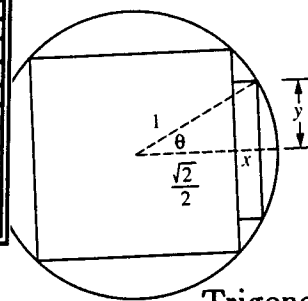
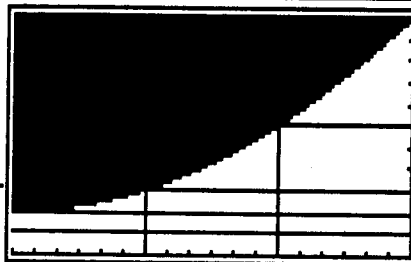
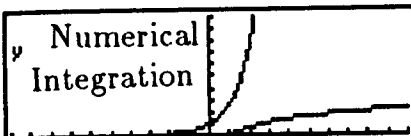
(city, state, zip) _____

(I agree to having my name announced if I win)

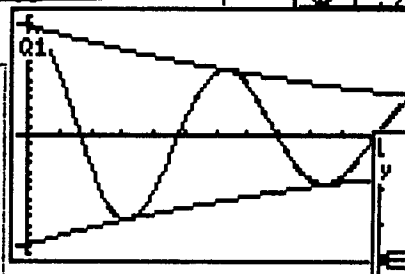
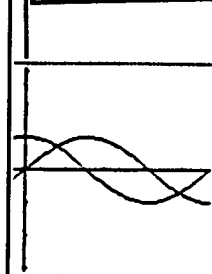
**Donald W. Wren, Tulsa, OK, won a free TI-82
in our last drawing. Enter now—it may be you this time!**

graphics calculators

Need help graphing?
Get it right with a book -
that's the easy way!

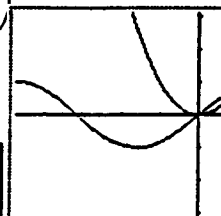


Trigonometric Functions



Explorations in Calculus I

$$A(x) = 2x \cdot 1 - \left(x + \frac{\sqrt{2}}{2}\right)^2$$

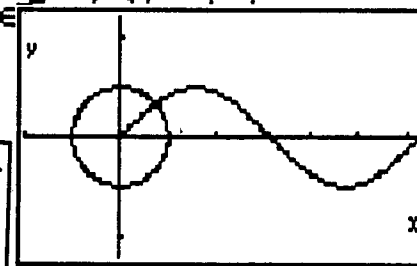


Time series for SBWIN and SBLOSE.



$$w'' + 36w = \cos 4t.$$

Explorations in Probability



Linear Systems

Learn about the calculator, learn about the course—
study with a class or work by yourself.

$$\sqrt{-2x^2 - 2\sqrt{2}x + 1} - \frac{2x(\sqrt{2}x + 1)}{\sqrt{-2x^2 - 2\sqrt{2}x + 1}}$$

Explorations with the Texas Instruments TI-85

by Harvey/Kenelly (eds.)

Tells you exactly how you can use the TI-85 in each of eight undergraduate math courses. The chapters, of an average 42 pages for each course, are independent, so you can study one of them without working through any other.

The courses are Precalculus, Business Math, Prob/Statistics, Calculus I and II, Linear Algebra, DEs and Advanced Engineering Math.

Stock #2829, Explorations with TI-85, 360p softbound . . . \$32.50

Introduction to Programming on the TI-81/82/85

TEXAS
INSTRUMENTS

Learn both general programming concepts and specific implementation on your own instrument.

These exercises demonstrate Defining Environment, Input/Output/Program Flow, Defining the Viewing Window, Graphics in Programs, and Using Programs as Building Blocks.

Each model's version is about 39 pages in looseleaf form and may be reproduced for classes, workshops and seminars.

Stock #3014, Intro Programming TI 81, looseleaf . . . \$7.95

Stock #3015, Intro Programming TI 82, looseleaf . . . \$7.95

Stock #3016, Intro Programming TI 85, looseleaf . . . \$7.95

Exploring Calculus with a Graphing Calculator

by Beckmann/Sundstrom

Build your understanding of calculus concepts through graphs and numbers—explore applications with this easy-to-use manual.

Works with all kinds of graphing calculators as well as calculus software packages for PCs or Macs. Some programs are used; these are given for TI and Casio machines.

Stock #2990, Exploring Calculus Graphing, 267p softbound . \$10.95

Discovering Calculus with Graphing Calculators

by Joan McCarter

"A picture is worth a thousand words." Here's your picture of first-year calculus, given by **graphs, the best pictures of functions.**

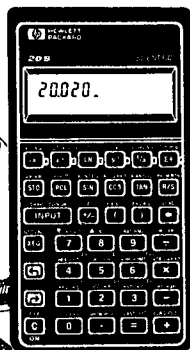
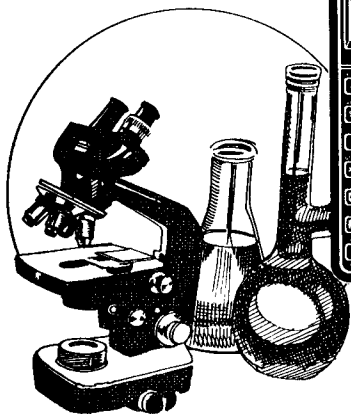
50 projects, each with examples, exercises and problems—these are independent, so you can start wherever you want in the standard topics (through series). Only basic operations are used, with minimal programming, so differences in calculators are equalized. Example graphs are printed for the Casio fx 8000G and the HP 48SX, and an appendix explains operation of current models: 6 from Casio, 3 from HP, 3 from Sharp and 2 from TI.

Stock #2858, Calculus with Graphing Calcs, 167p spiralbnd. \$19.95

Flash—Beginning in May, 1995, students will be required to use graphing calculators on the Advanced Placement (AP) Calculus Examinations. Get yours now!

scientific calculators

HP 20S



A powerhouse scientific calculator with algebraic entry—and a startling low price for real HP reliability!

This HP 20S is the **ONLY** calculator for under \$50 that gives you **BOTH**

- A Program Library
 - equation solver
 - curve fitting
 - quadratic equations
 - complex number operations
 - numerical integration
 - 3 × 3 matrix operations
- Keystroke Programming—
 - 99 program steps
 - 10 storage registers
 - conditional tests & branching

All essential math functions are here—exponential, natural and common log and antilog, pi, percent, percent change, polar/rectangular coordinate conversions, many more.

Two-variable statistics—including means and weighted means, regression, linear estimation, standard deviation, correlation coefficient; combinations, permutations, factorials.

Every essential trig function—including hyperbolics.

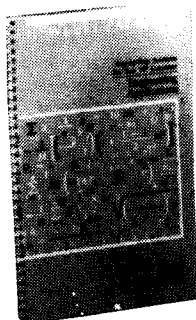
Base conversions and arithmetic—decimals, hexadecimal, octal, binary.

English/metric unit conversions—mass, distance, volume, temperature. All this with 12-digit precision, an excellent LCD readout, and a keyboard that includes alpha A-F (for labels/subroutines/hexadecimals)! Batteries, manual, soft case included; 1 yr warranty.

Stock #HP20S [Scientific Calculator] List \$40 \$32.95

HP 32S

Step-by-Step Solutions Book



Hewlett-Packard's step-by-step Solutions Book for your HP 32S covers useful routines specific to engineering; they will help you set up applications the way you want them.

Stock #628, Engineering Applications, 108p, photocopied . . \$25.95

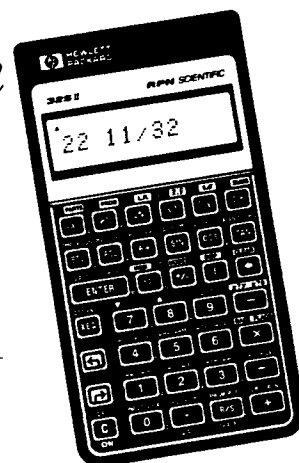
HP 32SII



- Real Programmability
- Real HP RPN
- Algebraic HP Solve Application
- Algebraic Equation Entry/Evaluation
- Unit Conversions
- Fractions

'Algebraized' Model

*Still with full RPN
Still only \$56.95*



- Over 180 functions, including all from HP 11C
- Root finder, SOLVE for any variable
- Base conversions: decimal/hex/octal/binary
- Polar/rectangular; decimal hours/hours-min-sec
- Probability: factorials, permutations, combinations
- 2-variable statistics, correlation and regression, with weighting

- Numeric Integration
- Complex Number Functions
- RPN Data Entry—quick and sure
- Menus and Softkeys—alpha variables and messages
- Modern vertical design with the Sleek Efficiency of a New German Car
- Random Numbers
- HP EQUATION SOLVER: solutions without programming

There's no guesswork with the HP 32SII—prompts, menu labels, and short messages help you know where you are every step of the way.

Enter keystrokes as a program—there are 390 bytes of memory and 26 storage registers—no keystrokes to learn since it's plain English (4 flags, 26 labels, 8 tests, indirect addressing—the works).

Playing out 'what-if' situations is simple with the HP 32SII. Just set up your equation, then solve for any variable. You key in the equation only once. When the situation changes, simply enter the new values for your changed variables. You get the answer—based on the new information—with little effort.

Manual, batteries, soft case included. 1 yr warranty.

Stock #HP32SII [Scientific Calculator] List \$70 \$56.95

Calculator stands, cases & batteries: see pp 28-30

Tips and Programs for the HP 32S

by

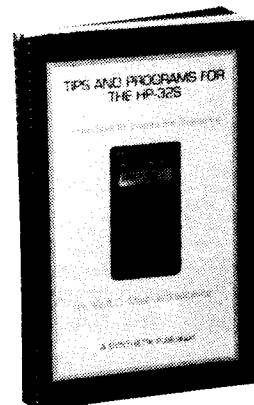
W.A.C. Mier-Jedrzejowicz

Your pocket rocket to skill and success with your HP 32S.

You start from GO, but there's also a quick-start for RPN-users. By Chapter 2 you'll do short programs that you may use in college courses. Then you'll learn how to make and use larger programs that add extra power to the HP 32S statistics and integration functions.

Lots of examples with keystroke sequences and readouts to show you just how and to teach you new tricks.

Stock #2014, HP 32S Tips & Programs, 81p spiralbound . . \$5.95 ~~\$7.95~~



HP 42S scientific calculator

TI-30X Scientific Calculator

TEXAS
INSTRUMENTS

Your Best Buy for learning to calculate! For general math and science — statistics, trigs, logs, powers and roots, plus 3 memories that persist when it's OFF.

It's loaded, with fractions and fraction/decimal conversions, hyperbolic trigs, natural and base 10 logs, and factorials. Does polar/rectangular conversions as well as degrees, minutes, seconds/decimal degrees conversions. Combinations and permutations.

10 digits with 2-digit exponent. Automatic Power Down. Durable Slide Case, Manual and Quick Reference Card included; 1 yr warranty.

Stock #TI30X [Scientific Calculator] List \$18 \$14.95

HP 48S & SX Scientific Calculators



- Six months warranty on used machines
- On-screen menus and softkeys, just like a PC
- Symbolic algebra and calculus, with all real and complex number functions
- Statistics including regression, plus normal, Student's t, F and chi-square distributions
- Programmability, including number bases and logical operators
- InfraRed Printer Interface
- Symbolic Math
- Time/Date/Calendar Functions
- Equation Solver
- Integrated Applications
- Serial I/O Port
- 32K RAM Memory
- Two Card Ports (SX only)

Stock #HP48SU [Used HP 48S] \$65

Stock #HP48SXU [Used HP 48SX] \$129

HP Step-by-Step Books for the HP 28S and HP 28C



Let experts help you set up your calculations so you can work with them most easily. These professional references include practical routines and tips for getting the most from the Built-in Menus as well as setting up Personal Menus for your specific profession. Order the ones that fit your work:

Stock #603, Algebra & College Math 90101 . . . \$7.95 \$9.95

Stock #604, Vectors & Matrices 90105 . . . \$7.95 \$9.95

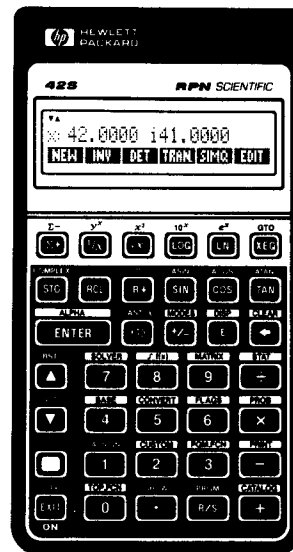
Stock #605, Calculus 90102 . . . \$7.95 \$9.95

Stock #606, Probability & Stat 90104 . . . \$7.95 \$9.95

Stock #607, Math Applications 90111 . . . \$7.95 \$9.95

HP 42S

Engineered for the Engineer
SuperFast RPN Scientific



- **Shirt-pocket power**—more than 600 functions built into 64K ROM, 7.2K of user's RAM, 2 line × 22 character display shows inputs or results right above English menus, prompts and label keys. 12-digit precision with exponents up to E499. Infrared signals to printer. 5.6 × 3 × 0.5 inches thick, 5 oz.
- **Exceptional matrix entry and editing**—with more matrix and vector operations than any other calculator. They are fast—to enter and edit, fast to run.
- **Complex and real numbers**—work together and interchangeably. This is the only calculator that labels the complex element, so you won't need to keep track of it.
- **Solves, integrates, converts bases**—and it gives polar answers directly, without converting to rectangular mode first.
- **Statistics and forecasting**—with 4 curve fits and automatic best fit. 2-variable list and cumulative statistics with weighted mean.
- **Full HP 41CV program compatibility**—every one of the thousands that are available may be keyed in to run as-is in your new calculator, but up to 10 times faster! Of course, you can enhance these programs to use the powerful features of the HP 42S, like softkeys and menus, and the HP SmartCatalog will file them in order and scroll them for you at a keystroke.
- **Traditional HP reliability**—with gold-plated PC-boards and rigorous test procedures . . . high performance engineering that will serve you for years. 1 year warranty transfers if you sell it or give it away.

Stock #HP42S [RPN Scientific Calculator] List \$120 \$89.95

HP 42S Quick Reference Guide

by Dex Smith

POSA Position in Alpha.	RCL Recall.	PRV Print variable.
PRA Print Alpha.	RCL+ Recall add.	PRX Print X-register.
PRLCD Print LCD.	RCL- Recall subtract.	PRE Print summation registers.
PROFF Printing off.	RCL× Recall multiply.	PSE Pause.
PROMPT Prompt.	RCL÷ Recall divide.	PUTM Put matrix.
PRON Printing on.	RCLL Recall element.	PWRF Power fit.
PRP Print program.	RCLIJ Recall IJ pointers.	QUIET Quiet mode.
PRSTK Print stack.	RDX, Radix comma.	RAD Radians mode.
PRUSR Print user (variables and labels).	RDX. Radix period.	RAN Random number.
	REALRES Real-results	

Super-concise summary that fits right in your instrument case—

- using menus
- statistics
- variables/registers
- base conversions
- data types
- executing functions/programs
- modes and flags
- simple programming
- using variable menus
- matrix operations
- numerical integration
- the solver

Stock #2064, 42 Quick Ref, 20p softbound \$4.95

HP 42S scientific calculators

Programming Examples and Techniques for the HP 42S



The serious programmer's option—examples to help you master many advanced uses of menus, labels, prompts and variables, so you can put them right to work in your own programs.

Lots of advanced techniques, too, so you can get the most out of your instrument's solver, integrator, matrix, statistics, plotting and graphics routines. Includes easy-to-load Time Value of Money routines that make it into a menu-driven financial calculator!

Stock #2065, Programming Examples, 234p spiralbnd . . . \$14.95

An Easy Course in Using the HP 42S

GRAPEVINE PUBLICATIONS, INC.



Straightforward help! Easy to understand—even the type is oversize. You'll start with the basics of your HP 42S and work your way up to some of the most complex features. An ample supply of examples, diagrams and layman's language will keep up your interest as well as your understanding.

Stock #2181, Easy Course/HP 42S, 384p spiralbound . . . \$19.95

Solution Books for your HP 42S

Step-by-step examples and programs

Stock #2016, Electrical Engineering . . . \$9.95

Stock #2015, Mechanical Engineering . . . \$9.95

HP 41 Solution Books — work quite well with the HP 42 also — and the price is reduced!

Step-by-step keystroke listings for specific problems in specific disciplines—with lots of programming details. Perfect if you want specific programming solutions, program modifications, or a program reference library.

Stock #90093, Antennas (photocopied)	\$16.50
Stock #90094, Business Statistics/Marketing/Sales	\$16.50
Stock #90145, Calendars	\$16.50
Stock #90100, Chemical Engineering	\$16.50
Stock #90102, Chemistry	\$16.50
Stock #90089, Civil Engineering	\$16.50
Stock #90092, Control Systems	\$16.50
Stock #90088, Electrical Engineering	\$16.50
Stock #90139, Fluid Dynamics & Hydraulics	\$16.50
Stock #90099, Games	\$16.50
Stock #90443, Games II	\$16.50
Stock #90084, Geometry	\$16.50
Stock #90140, Heating, Ventilating & Air Conditing	\$16.50
Stock #90083, High-Level Math	\$16.50
Stock #90096, Home Construction Estimating	\$16.50
Stock #90086, Lending, Savings, & Leasing	\$16.50
Stock #90090, Mechanical Engineering	\$16.50
Stock #90142, Physics	\$16.50
Stock #90136, Real Estate	\$16.50
Stock #90137, Small Business	\$16.50
Stock #90138, Solar Engineering	\$16.50
Stock #90141, Surveying	\$16.50
Stock #90082, Test Statistics	\$16.50

HP 42S Surveying Solutions

from DZign

- You'll like these FRIENDLY programs—written just for the surveyor.
- You'll access all of your HP 42S MEMORY and use all of its SPEED—with programs written just for it.

Point-storage traverse stores 200+ pairs of coordinates, handles sideshots and inverses and can interface to intersection solutions program. Run your traverse in any form—its all MENU-PROMPTED. Input is single-key, output can be azimuth or bearing.

Traverse adjustment by either COMPASS or TRANSIT method—also inverses between the points as it adjusts them for a complete listing of traverse. **Layout inverting** for spraying in points.

No more decimal degrees—you add/sub/mult/divide or do trig functions in degrees/min/sec without converting.

Optional programs included for Coordinate Transformation, Predetermined Areas, Bearing/Azimuth and Azimuth/Bearing conversions.

You'll be able to dump your coordinate listings automatically, to an InfraRed printer.

Stock #2173, 42S Survey Solutions, 86p softbound . . . \$24.45

Booklets of Programs for the HP 42S

Surveyor's Vertical Alignment

Calculates CONTINUOUS vertical alignment without changing back and forth between Grade and Curve routines. Also calculates vertical intersections, symmetrical or asymmetrical curves. Solves for station when the elevation is known, or the station can be given, to calculate the elevation.

Stock #2222, HP42S Vertical Curves Programs, Booklet \$9.95

Surveyor's EDM Slope-Staking

Set up anywhere near an alignment and slope stake it. Sets slope stakes from the remote instrument location directly. Includes a three-point resection program for finding the instrument's location by either station-offset or coordinates. All data needed to mark the stake is output (or may be stored), and there is a subroutine for setting the reference stake.

Stock #2223, 42S EDM Slope-Staking Pgms, Booklet . . \$9.95

Alignments/Offsets

Follow any alignment's circular curves and tangents, then calculate the coordinates or radial ties to any station or offset to a station.

Options include coordinate output, auto-inverse, or both. The instrument and backsight points do not have to be on the actual alignment. Stake grade, rights-of-way, pipe lines, etc. without have to establish the centerlines of the streets first.

Stock #2229, 42S Alignment/Offsets Programs, Booklet . \$9.95

Topography

Turn your 42S into a manual data collector, complete with a labeling system that you can customize to suit the type of topo work you do. Your instrument may be set up anywhere, and all of the work is done by the calculator.

All of the shots are stored as finished data, by shot number, for later output. The program also gives you the choice of 3-D coordinates or Station-Offset-Elevation for the output.

Stock #2231, 42S Topography Programs, Booklet . . . \$9.95

Triangle Solutions Booklet

Your complete set of triangle solutions programs for the HP 42S—solves with any of these knowns: ASA SAA SAS SSA SSS Area-SS Area-AA Area-SA. If a problem has two possible solutions, you get both output.

Stock #2207, 42S Triangle Solutions Booklet . . . \$9.95

Did you realize that the 2nd item on your order from us gets free shipping? So does the 3rd, the 4th, . . . !

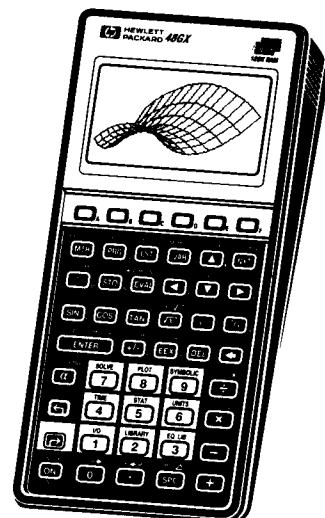
HP 48G/GX graphic/expandable

Everything! All the functions and features of other graphics calculators, plus. It's that simple — it's the new generation.

More, too! More memory. More functions. More graphics.

New Stuff! Input forms. Dialog boxes. Plotting enhancements. 3-D graphics. Built-in equations. Matrix operations.

Here are the **7** professional advantages you get with your HP 48G/GX —



1. You'll stand out. It has new, friendly colors and shares with the HP 48S/SX a distinctive size (3.2 × 7.1 in.) and a wonderful, big LCD—so you'll be recognized the minute you walk in with it.

When you fire it up, you'll be surprised at how easy and intuitive its command structure is—so you'll get satisfying results immediately. Most applications have a new input form, so you just fill in the blanks.

Just for fun, try the new TEACH function—instant demos of 21 functions and displays. Right out of the box, you'll even be able to do an animated display!

Next, use HP Equation Writer to enter a function in the same form as it appears in a book—sigma notation, integral signs, radicals, fractions, . . .

For an encore, you'll plot several functions, then interact graphically—zoom in, find roots, intersections, slopes, local extremes, derivatives, areas, . . . at the press of a key. If that isn't enough for them, you can draw boxes and circles on the graph to emphasize your work, or do a polar or a parametric plot.

This is the first calculator that enters equations in textbook style, and it's the first that does all these graphics. *Will that get their attention?*

2. You'll have assurance. Solid power, right in your hand. You'll have the standard keys (SIN, LOG, \sqrt{x} , . . .) on this traditional keyboard, for quick hand calculations.

But, underneath, you'll have a giant 512K ROM of power, with more than 2300 functions that you'll access with 117 user-friendly menus. It's customizable, too—you'll have 128K of RAM to store your own personalized menus in (32K in the HP 48G).

You'll use the cursor keys to browse through a new library of 315 equations for geometry, stress analysis, electrical engineering, fluid flow, heat transfer, and more. Given your known values, solve for the unknown values with the equation solver.

The X in GX means Expandable—it has two internal card slots. You'll be able to customize your HP 48GX with optional plug-in ROM cards, from HP and from others, for more math power, or statistics, or surveying, or . . . Also, you can increase your memory capacity with optional plug-in cards—it's expandable up to 4.1MB.

When you have all that, and know it will go on working with legendary Hewlett-Packard reliability, *won't you have assurance?*

3. You'll communicate. You'll have 2-way InfraRed, so you can share programs and data with another HP 48. You can also squirt programs, data and graphics via InfraRed to an optional portable printer.

Kermit is built right into the HP 48G/GX so you can also wire-up to your PC or Macintosh with an optional Serial Interface Kit—then you can generate high-quality printouts and use your computer's disk drive to store data and programs. You can use the computer's keyboard to program your calculator, too, and you can operate all the HP 48G/GX routines like an excellent number-crunching software package on your computer (you save the software cost).

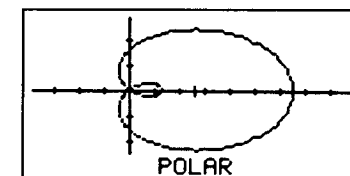
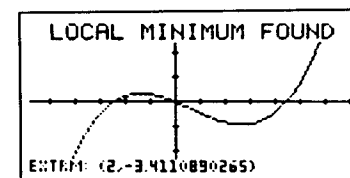
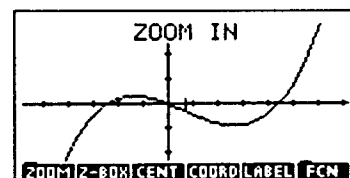
You'll have the world's best interactive calculator graphics. You'll have a beautifully-planned keyboard with well-engineered tactile feedback. *Isn't all this the kind of I/O power you've needed?*

4. You'll be fast and timely. This baby is fast — fast at computations and fast writing to screen. Its heart beats at nearly 4 MHz, so its overall throughput is 40% greater than for that old speed king, the HP 48SX.

You'll have a Review mode, plus the ability to edit the stack, matrices, etc, so you'll have rapid, correct data and program entry.

There's a clock which you can have on your screen if you wish (there's date-arithmetic, too). You'll have two types of alarms: appointment and control. *OK?*

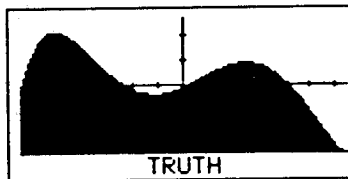
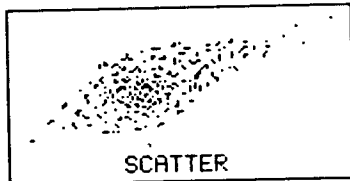
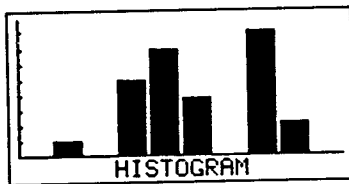
$$\frac{1}{\sqrt{2\pi}} \sum_{n=0}^{100} \frac{\sin(n \cdot \omega \cdot t)}{n}$$



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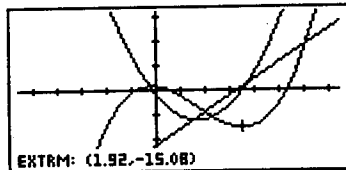
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1: "HP 28 -> HP 48GX"
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HP 48G/GX graphic/expandable



$$P = \frac{\left(0.0821 - \frac{1 \cdot \text{atm}}{\text{K} \cdot \text{mol}}\right) \cdot n \cdot T}{V}$$

STD FIN SCI ENG SYM BEEP



1: Send to HP 48...
 2: Get from HP 48...
 3: Print display
 4: Print...
 5: Transfer...
 CANCEL OK

SOLVE Y'(t)=F(t,Y)
 F: '1/(1+t^2)-2*y^2'
 INDEP: t INIT: 0 FINAL: 6.5
 SOLN: y INIT: 0 FINAL:
 STEP: Df1t TOL: .001 _STIFF
 ENTER INITIAL SOLUTION VAR VALUE
 EDIT INIT SOLVE

1: Integrate...
 2: Differentiate...
 3: Taylor poly...
 4: Isolate var...
 5: Solve quad...
 CANCEL OK

The HP 48SX was the Grand Winner of EDN Magazine's Innovation of the Year Award, 1990; Winner in Popular Science Magazine's Best of What's New for 1990; Winner of Electronic Products' 1990 Product of the Year Award; and chosen as one of "The Best of NED" products by New Equipment Digest readers.

5. You'll be accurate. You'll use more than 2300 functions to manipulate numbers that are stored with 12-digit mantissas and 3-digit exponents (your machine calculates with 15-digit intermediate precision).

You can change coordinate systems, even using 3-dimensional polar or spherical coordinates. And you'll specify the precision you want in evaluating an integral or root.

Your big new boon to accuracy is going to be units management—your new HP 48G/GX will do measurement-unit conversions (Metric to English, etc). It will factor units by units (for example, 3.5 kg/s² factored with respect to Newtons, N, gives 3.5 N/m). It will perform math on unit objects (so 10 mph added to 10 ft/s gives 24.67 ft/s).

But there's more—if you enter the units for your calculations, right along with the numbers, your HP 48G/GX will keep track of the units throughout its arithmetic—so if you expect your result to be a temperature but its units are meters, you know something went wrong. This is like having a check-sum built into every calculation—and it also labels every number so you always know where you are in your work. There are 148 units built in, and you can add your own.

Here is the first calculator that converts units automatically, and it is a real pleasure to use—you can concentrate on applications of your problems, instead of looking for mistakes in unit conversions. *Isn't that what you've wanted?*

6. You'll have new smarts. If you have used the SOLVE function on a calculator, you know how useful it can be, and how much programming it can save you. But this one is something else. On the HP 48G/GX you can link several equations for simultaneous solutions. Or you can "solve a program" by using the SOLVR to invert a function. Or you can PLOT both sides of your equation, move the cursor near an intersection, and have the SOLVR find your root.

SOLVE differential equations (with initial values), polynomials, or linear systems of equations, too!

You'll have a built-in, high-level programming language to work with, too—structured and object-oriented, with conditional expressions and looping structures, 64 system flags and 64 more for the user, improved DEBUG and SST functions, error trapping, . . .

This is a student's best friend, an engineer's powerhouse and a programmer's dream machine, all in one!

7. You'll be up to the minute. This machine does calculus—it can even find symbolic integrals (indefinite integrals)! It finds symbolic derivatives, too, and does lots of algebraic operations on symbolic expressions—simplify, expand product, collect like terms, distribute, factor common terms, . . . , and then it will evaluate.

The HP 48G/GX does the Fast Fourier Transform and its inverse. There is even list processing.

Your PLOT will find roots, intersections, local extremes, derivatives and slopes for you, or find areas under curves, so you get calculus applications too. For approximations, it will find Taylor Polynomials, then superpose them successively on their function to give an animated display!

Impressive new plot types include 3-D, wire form and grid map, plus you can ZOOM (15 ways). Statistics routines include curve-fitting with 4 models—linear, logarithmic, exponential and power—as well as upper-tail probabilities (normal, chi-square, F, Student's t) and a random-number generator.

Matrix Writer lets you easily do arithmetic with matrices and vectors that have real or complex number entries. That includes vector cross-products, dot-products, and lengths. It includes matrix inverses, determinants, Frobenius and row and column norms, transposes and Hermitian adjoints. There's even a command that improves a numerical solution to a system of equations by iterating with extended precision. *Do you need this machine?*

What's the difference between these two machines? There are only two differences—memory and card slots. The Graphic Expandable HP 48GX has 128K RAM and 2 card slots, whereas the Graphic HP 48G has 32K RAM and no card slot. Each comes with User's Guide, brushed nylon case and batteries; 1-yr warranty.

How do these new HP 48G/GX machines relate to the HP 48S/SX? These new machines will do more—bigger memory, more port memory, more commands, better plotting, new and improved input form, expanded list processing, built-in equations. But **they will run almost all the software** designed for the HP 48S/SX as well, and any user code program you have developed for the HP 48S/SX will run just fine in your new HP48G/GX.

Stock #HP48GX [Graphic Expandable Calculator] List \$350 ~~\$274.95~~
 Stock #HP48G [Graphic Calculator] List \$165 ~~\$119.95~~ ~~\$129.95~~

HP 48 series

here's where you find . . .

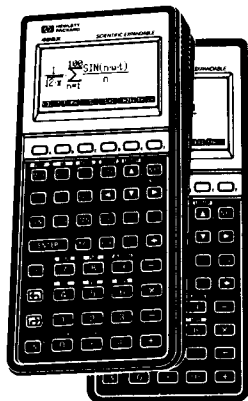
accessories	45
cables/interfaces	47
peripherals	48
software	49
programming aids	57
bookware	59

Trade **I**n **P**rogram
Save even more —



TRADE IN your used HP 41CV/CX, 48S or HP 48SX. Just send it to us, insured, in working order, with all its Manuals. Take CRedit on your Order — \$50 CRedit for a 48S, \$95 CRedit for a 48SX, \$45 for a 41CV or \$60 for a 41CX—and put the order and your check right in the box.

If you prefer to keep your old instrument until your new one arrives, just send it to us up to 45 days later, along with its Owner's Manual and a copy of the sales receipt for your new machine—we'll send you your refund right away.



Educators— HP 48G Ten-Pack

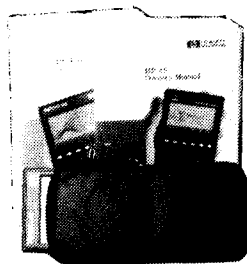
EduCALC

New cost-effective way to provide your whole class with the very best graphing calculator. Contains ten HP 48G calculators, ten Owner's Manuals, a poster of the 48G and a set of example problems. Buy 4 Ten-Packs and get a classroom OH display and an HP 48GX calculator for free—an \$850 value!

Call our School Specialist, Brent Martin, at (800)677-7001, ext. 129, for your wholesale price.

accessories

Extras for your HP 48
like those that came
with the product



Stock #2787, HP 48G/GX User's Guide	\$24.95
Stock #2250, HP 48S/SX Owner's Manual	\$24.95
Stock #2251, Equation Library Owner's Manual	\$9.95
Stock #82221A [HP Soft Case].	\$14.95
Stock #AAA [Alkaline Battery] uses 3	ea \$8.99

Battery-backed RAM Cards for SX/GX



Develop large programs and store more data in your HP 48SX/GX—You can configure this extra memory either to add to your instrument's main memory or to use it as an electronic disk for backups.

It plugs in inside your HP 48SX/GX, and it has its own long-lasting battery so you save your information even if you take it out to store it or mail it to a friend. Comes in 2 sizes, 128K and 1MB, and your machine can hold up to 2 of them. 1-year warranty.

Stock #82215A [128K RAM card] List \$150 \$124.95

Stock #82216A [1MB RAM cd for 48GX only] List \$399 \$324.95

Memory Expansion Cards

for HP 48GX only

Sparcom
CORPORATION



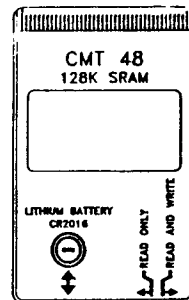
Powered by long-life battery that saves programs and data even when card is out of calculator.

Stock #2951 [256K RAM card for HP 48GX] List \$170 \$149.95

Stock #2952 [512K RAM card for HP 48GX] List \$260 \$229.95

Battery-backed 128K RAM Card for your HP 48SX/GX

CMT

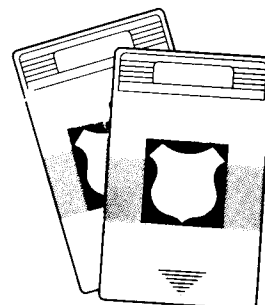


Special Write-Protect Switch guards against accidental erasure. Built-in tranzorbs protect from electrostatic discharge. CR 2016 battery included (2-3 year life). 1-year warranty.

Stock #2422 [48 RAM, 128K card] List \$95 \$85.95

Battery-backed RAM Cards for SX/GX

TDS



256 or 512K in one card! You can copy these huge amounts of data from one RAM card to another right in your HP 48GX. Battery-backed.

Stock #2365 [128K RAM card] List \$115 \$99.95

Stock #2475A [256K RAM card for 48GX] List \$160 \$149.95

Stock #2476A [512K RAM card for 48GX] List \$240 \$219.95

Stock #2475 [256K RAM card for 48SX] List \$210 \$169.95

Stock #2476 [512K RAM card for 48SX] List \$375 \$299.95

HP 48 series

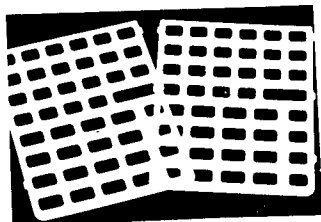
accessories continued

Overlay Kit for S/SX/G/GX



7 plastic keyboard overlays slip into place—3 transparent, 3 opaque (you can write key labels on these), and 1 with standard alpha keyboard markings for 48S/SX.

Stock #82220A [48 Keyboard Overlay Kit] \$14.95

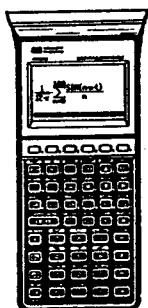


Protective Bag for S/SX/G/GX

COMP-U-BAG

Zip out dirt and moisture—you can use your calculator right in the oil field (or the pillow fight) if it's in one of these flexible, transparent bags (not sealed against pressure); used daily, each bag will last a couple months. Fits into leather field cases, with easy access to plug-in ports.

Stock #543X [Standard Comp-U-Bag] \$2.50
Stock #543XT [10 Std Comp-U-Bags] \$19.95
Stock #543U [Anti-Static Comp-U-Bag] \$2.75
Stock #543UT [10 Anti-Static Comp-U-Bags] \$21.95



TDS 148 Environmental Case for S/SX/G/GX

TDS

Survival counts, where your 48 is concerned. This dust, shock and water-resistant case may be ugly—BUT, put your 48 into it, snap the cover down onto the O-ring, and your 48 is safe. You key in your data directly through a clear, flexible membrane.

There is a 9-pin port molded in—you can use a standard (serial) computer cable with a 9 or 25-pin connector on the other end for your PC. Port allows communication with other HP 48s.

Optional Total Station Cable gives you a direct connection.
Stock #2950 [TDS 148 Environmental Case] List \$120 . . . \$109.95
Stock #2427 [Computer Cable, 9 to 9-pin] \$34.95
Stock #2428 [Computer Cable, 9 to 25-pin] \$34.95
Stock #2332 [TDS 148 Cable, Sokkia/Topcon] List \$75 . . . \$69.95
Stock #2333 [TDS 148 Cable, Nikon/Top Gun] List \$75 . . . \$69.95
Stock #2334 [TDS 148 Cable, Zeiss] List \$75 \$69.95
Stock #2335 [TDS 148 Cable, Pentax] List \$75 \$69.95
Stock #2336 [TDS 148 Cable, Kern] List \$75 \$69.95
Stock #2337 [TDS 148 Cable, Wild] List \$75 \$69.95
Stock #2338 [TDS 148 Cable, Geodimeter] List \$75 . . . \$69.95
Stock #2261 [TDS Tripod Bracket] List \$75 \$69.95

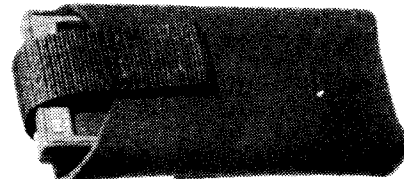


The Pouch for your HP 48S/SX/G/GX

The Pouch

Are you a utilitarian? Here's a no-frills pouch for the simple life—made of bouncy neoprene foam and nylon, with belt-loop and velcro closure.

Stock #2736 [Instrument Pouch] \$19.95



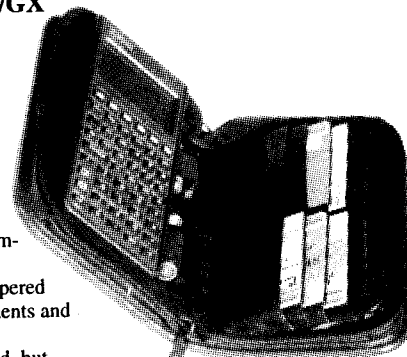
the Leather Desk our best organizer for the executive's S/SX/G/GX

EduCALC

Sumptuous black napa leather coddles your 48, with extra padding for instrument protection. Software and memory cards fit into 6 slots, 2 pockets hold notes and diary. There's a zippered compartment for important documents and a loop for your pen.

It feels soft and rich in your hand, but there's a detachable carry strap, too. 8 1/4 x 5 x 1 3/4 inches outside.

Stock #2763 [HP 48 Leather Desk] \$57.95



Your Name in Silver on your HP 48G/GX

Personalize your calculator with this black-background, self-adhesive nameplate—it installs quickly in the recess on the back of your instrument.

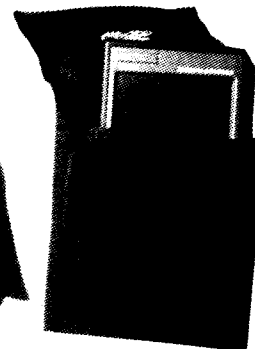
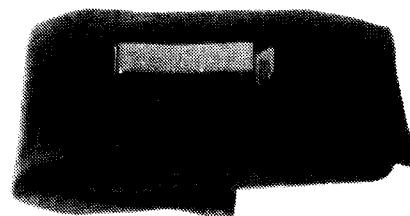
A big plus is, now your borrowers will know where to return your HP 48. Just tell us the 18 standard characters to engrave for you, and allow 2 weeks for delivery. Indicate whether all caps or upper/lower case.

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Stock #2786 [HP 48 Personalization] \$5.95

The Belt Holster for your HP 48 or HP 95/100

Ripoffs



The very best belt clip we've ever seen, on a double-stitched black nylon holster with velcro closure and foam padding—good design at the right price!
Stock #3000 [Belt Holster] \$14.95

HP 48 series

accessories continued

audacious orange Protective Case for your HP 48

TDS

Thick nylon cloth with heavy stitching (sheds water) has clear plastic front cover membrane (you can key right through it), velcro seal, and cable port on lid; hand strap on back doubles as belt loop.

The surveyor's orange color is so bright that, if you drop it in the field, it may start a fire!
Stock #2865 [Orange 48 Case]. \$29.95



HP 48 Accessories for S/SX/G/GX

Stock #2249 [Solid Oak Stand]	\$16.95
Stock #2252 [Clear Acrylic Stand]	\$11.95
Stock #2225 [Hard Leather Case]	\$42.95

An Easy Course in Programming the HP 48G/GX

GRAPEVINE PUBLICATIONS, INC.

Here is an *Easy Course* in true Grapevine style — examples, illustrations, and clear, simple explanations give you a real feel for the machine and how its many features work together.

After the overview comes simple programming — looping, branching, etc. Next, you program with the built-in applications. Then you design your own applications — directories, custom menus, the works.

Stock #2929, *Easy Programming 48G/GX*, 350p softbnd . . \$19.95

An Easy Course in
Programming the
HP 48G/GX



by Chris Coffin

An Easy Course in Using the HP 48SX

GRAPEVINE PUBLICATIONS, INC.

Your fast, easy way to get up-to-speed on the 48S/SX!

First you'll get a tour of the keyboard, stack, menus, etc., and find out how to build and use each of the different kinds of *objects* in the HP 48:

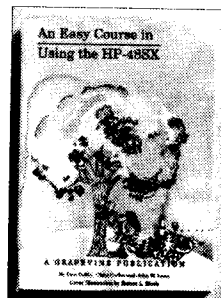
- Real Numbers
- Arrays (Matrices)
- Characters & Strings
- Algebraic Objects
- Units
- Vectors
- Names
- Complex Numbers
- Binary Integers
- Tags
- Programs
- Lists
- Directories

Then you'll learn how to apply these objects in:

- Math
- Statistics
- Building Equations
- Customizing Menus
- Directory Structuring
- Algebra
- Plotting
- Assigning Keys

You'll get a working example of every command and concept you need, plus reviews and summaries, so you can learn at your own speed how to calculate like a pro!

Stock #2416, *Easy HP 48SX*, 392p softbound \$9.95



- Calculus
- SOLVing Equations
- Time Calculations
- Postfix Programs

cables/interfaces

Serial Interfaces— Kits & Cables—for PCs and Macs to S/SX/G/GX

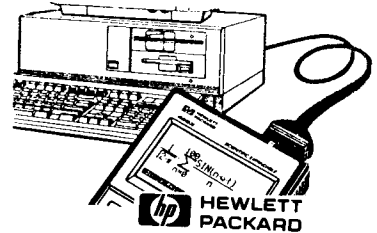
Wire-up your HP 48 to your computer — 1.5-meter cable plugs into top of calculator (cable has 9-pin connector, and kit for PC contains a 25-pin adapter in case you need it).

You can store your data and programs on your computer's disc drive. You can use the computer's big keyboard to enter HP 48 commands — the Interface sends them to the calculator and returns results to computer screen for easy viewing (so you get excellent math software as a bonus).

Use your favorite computer text editor with the HP 48. Write and edit big programs, or enter large matrices and statistical data in a familiar way.

Comes with Instructions and computer software (3.5" disc for PC; 3.5" disc for Macintosh).

Stock #82208C [PC Serial Interface Kit] List \$60	\$49.95
Stock #F1015A [48/95/100 to DB9 Cable, 6'] List \$35	\$24.95
Stock #F1023A [Serial Cable Adapter Kit]	\$24.95
Stock #82209B [Mac Serial Interface Kit] List \$60	\$49.95
Stock #F1016A [Mac Serial Cable only] List \$35	\$24.95



Experimenter's Serial Cables for S/SX/G/GX

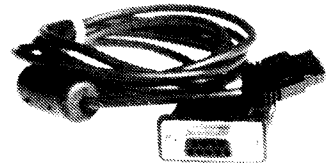
EduCALC

- Engineers
- Instrument Makers
- Hobbyists

Connect your HP 48 to anything you want! Six foot cable has 4-line serial connector molded onto one end, with the other end unterminated (just 4 wires for you to solder).

You can also order this cable terminated with a female 9-pin (computer RS-232) connector and built-in strain relief.

Stock #2601 [Unterminated Serial Cable, 6']	\$15.95
Stock #2609 [4- to 9-pin Serial Cable, 6']	\$22.95



Dual-Purpose HP 48 Serial Cable for S/SX/G/GX

Switches so it can connect to computer or to printer — eliminates adapter and NULL modem. Elegant, light weight, 6' long.

Stock #2449 [Dual Purpose Cable] \$36.95



Serial Interface Kit for HP 48S/SX/G/GX

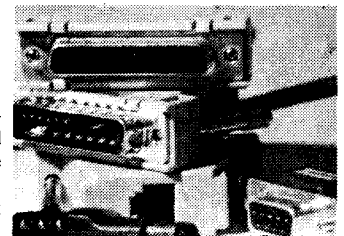
CMT

Avoid connector misfits! This 6' cable fits HP 48 Serial Port on one end and its other end is a phone jack. Cable is shielded and has strain relief.

4 adapters are included that accept the cable's phone jack — a 9- and a 25-pin female to fit PCs, a 25-pin male for a modem, and a 25-pin male for a printer.

Kermit communication program for PCs is included on disk, along with brief directions for its use.

Stock #2342 [Serial Interface Kit, 5.25"] \$36.95



HP 48 series

cables/interfaces continued

CalcWare Link for the PC & Mac

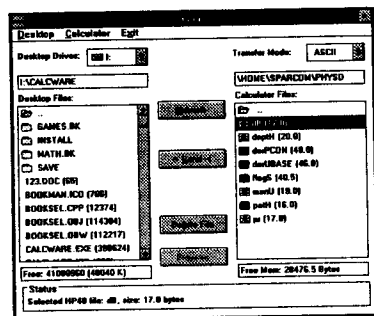
Sparcom
CORPORATION

Upload, download and backup files from your HP 48 S/SX/G/GX to a DOS/Windows or Mac computer — here's your connectivity software.

Create documents, analyze results, prepare examples and design curricula quickly with Screen Capture and Remote commands.

Comes with a library of essential math functions—so you can derive solutions or solve equations in math, science and engineering.

Stock #2953 [DOS/WIN CalcWare] List \$60 \$49.95
Stock #2954 [Mac CalcWare] List \$60 \$49.95



peripherals

Drive95 Portable 3 1/2" Disk Drive for your HP 48S/SX/G/GX

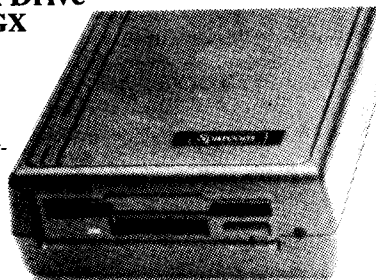
Sparcom
CORPORATION

This lightweight, battery-operated disk drive features File Manager software, a screen-based program that makes file transfers, calculator back-up, and directory management a simple point-and-click operation.

Designed for remote operation, the drive has an intelligent cache which extends battery life up to 15 hours on a single charge. Compact (7.25" x 5.25" x 2") and contoured to complement the HP 48, Drive95 also interfaces with the HP 95LX or any DOS based palmtop, laptop, or desktop computer, and supports formatted 720Kb and 1.44Mb capacity 3.5" disks.

Includes File Manager software, manual, Kermit, serial cable and AC charger/adaptor; 90 day warranty.

Stock #2602 [Drive95] List \$330 \$285
Stock #2327 [Formatted 3.5" disk] each \$2.50



Diconix 180si Portable Printer S/SX/G/GX

- Create new overheads in an instant
- Customize your proposals on the spot
- See your letters in final form right away
- Respond to clients while you're on the road
- Make last minute revisions to your presentations

Only 2 x 6.5 x 10.8 inches, and it weighs just 2.9 lbs (3.5 lbs with optional batteries); RS232C serial interface; prints on sheet or tractor plain paper or transparency. Multiple fonts and print modes in 96 x 96 dpi Draft or 192 x 192 dpi Quality resolution. Quiet; just 45 dB.

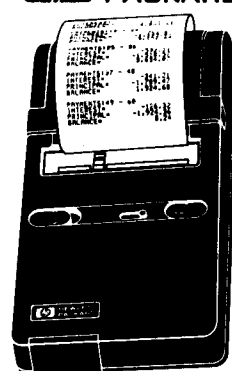
HP ink-jet print head is user-replaceable. Can recharge its batteries even while printing. 1 yr warranty.

Stock #K180SI [Diconix Printer] List \$349 \$299
Stock #CN [NiCd C Cell] (requires 5) ea \$4.49
Stock #2351 [Kodak Print Head] \$13.95
Stock #51604A [HP InkJet Print Head] \$8.95



InfraRed Printer for your HP 48 S/SX/G/GX

hp HEWLETT
PACKARD



Get hard copies of all your graphics, data, programs or calculations. This silent thermal printer operates on four AA alkaline batteries (included) for go-anywhere portability—a set of batteries prints about 6000 lines, or there is an optional AC Adapter.

Printer connection cords have been replaced by an invisible infrared beam from the HP 48. It's the only link required for your printing needs.

You have plenty of leeway—up to a foot and a half—to put the printer where it's most convenient for you. Just point your calculator at it and push [PRINT]. No cords to tangle with.

Print speed with fully-charged batteries is just a shade over a half second per 24-character line. You can print out a complete record of the numbers you've used in your calculations, as well as your results. Or print selectively and provide clients with copies of quotes, amortization tables or itemized lists.

Stock #82240B [Portable InfraRed Printer] List \$135 . . . \$115.95
Stock #F1011A [AC Adapter for IR Printer] \$34.95
Stock #82175A [2.25" Printer Paper, black, 6 rolls] \$9.95
Stock #AA [Batteries, Printer uses 4] ea \$8.99
Stock #92169H [Cover, brown] \$22.95

Foreign adapters available—see p. 13, palmtops section.

Omnibus rel 5 spreadsheet for SX/GX

ForCALC

A general-purpose spreadsheet with data-base capabilities, optimized for storage and retrieval of personal information.

Includes powerful calendar appointment manager support ing more than 20 different country-dependent holiday plans and languages.

You'll create the interactive applications you want, with NO programming. All programs share a common user interface that's fully integrated with the HP 48 and uses standard RPL programs and functions as spreadsheet macros—so there's NO language to learn.

Supplemental libraries have Financial Functions, Statistical Functions, Data Base Extensions, Graphic Commands, plus Electronic Formulae, Diagrams and Schemes. 80K package includes SmartRom utilities.

Stock #32233 [Omnibus, 3.5"] List \$119 \$89.95

HP Solve-Equation Library Application Card for SX

Sale

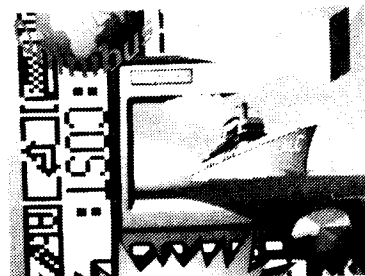
Plug in over 300 science and engineering equations — you'll use the HP 48SX cursor keys to select from equation topics such as columns and beams, electricity and fluid flow. Then touch a key to see a set of related equations. Choose your equation — the HP 48SX displays it, gives you a picture of the physical system (if appropriate) and lists the descriptions of each variable in the equation.

Physical Constants Library — if your equation requires constants, like gravity or the speed of light, the HP 48SX will place them where you want them — no more cumbersome reference tables! Equations and Constants built into HP 48G/GX.

Periodic Table of Elements — you will press a key to view atomic weights, numbers and densities — you may never have to find tables in a book again!

Includes Owner's Manual, ROM card that plugs into one of the two compartments inside your HP 48SX, and Tetris.

Stock #82211B [Equation Library] \$39.95



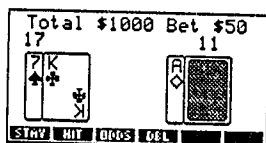
HP 48 series

software

Games48 for SX/GX

Sparcom
CORPORATION

- Poker
- Blackjack
- Skunk
- Roulette
- Diamonds
- Sokoban
- Vaders
- Keno
- Reversi
- Slots

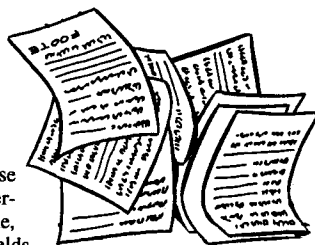


Take a break! Test your reflexes with Diamonds. Solve strategic puzzles in Sokoban. Transform your HP 48SX/GX into a pocket arcade! Includes software on ROM card and manual; 1-yr warranty.

Stock #2757 (Games 48, card) List \$80 \$69.95

The HP 48 Database for S/SX/G/GX

Donnelly



A compact, powerful, easy-to-use database engine for the HP 48—supports eight different data types, including number, text, time, date, remote file all lookups, calculations fields.

The HP 48 Database is easily customizable. Searching, selecting, sorting, reporting, and data import/export features allow you to get the most out of your stored data. Written in highly efficient machine code with commands that let you access database information from your own programs.

The manual clearly documents how everything works with examples. Comes on a disk for either the PC or the Mac, so you'll need a serial cable to download the code to your HP 48.

Stock #2648 (Database, PC disk, 3.5") \$24.95

Stock #2649 (Database, Mac disk) \$24.95

HP 48 File Manager for S/SX/G/GX

Donnelly

Superconvenient file exchange program eases data transfer between the HP 48 and your PC. The File Manager lets you browse through the directories right in the HP 48 display! Push a menu key to transfer one or more files or archive your HP 48. Other menu commands let you create directories, rename files, purge files, and much more. This efficient machine-language utility is a must for anyone who saves HP 48 programs and data on a PC. Manual included; does NOT work with Macintosh or with CMT disk drive.

Stock #2474 [HP 48 File Manager, 3.5"] \$15.95

Personal Information Manager

Application Card instantly makes your HP 48SX/GX into a Business Informator

Sparcom
CORPORATION

- **Interactive calendar** serves as your entry point for all functions.
- **Appointment book** allows you to enter appointments, meetings, or birthdays; set reminder alarms; and create reports of any or all entries.
- **Notepad** allows you to list any type of data as memos, including to-do lists.
- **Phone directory** permits you to store, sort and retrieve up to nine fields of information for each entry, including name, company, address, home phone, business phone, and fax numbers.
- **Expense accountant** permits you to enter, describe and compile expenses under customizable account names.
- **Time clock** documents time spent working on projects or accounts.
- **Report generator** compiles itemized lists from the data stored by each function. Reports may be sent to the HP 48SX/GX screen, a file, an IR printer, a PC or another HP 48.

Stock #2323 (Personal Information Mgr, card) List \$100 . . . \$89.95

HP 48SX/GX

Engineering Mathematics Library including MATHLIB, a ROM card with 715 new commands

by John Holland

Academic Press

Our most complete math package

- ✓ quick analyses for the professional
- ✓ worked examples for students

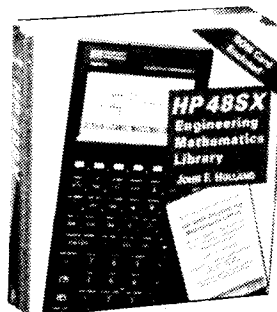
Complete, with statistics, linear algebra and digital signal and data processing. Over 300 tabulations of complex math functions, most to 10-digit accuracy.

Single-button plotting of all HP 48, MATHLIB, and all real and complex user-defined functions stored in the VAR directory—linear, semi-log and log-log plots with titles and labeled axes. 36 user-friendly menus. Vector and matrix language, so you can manipulate arrays without dealing with the elements. Over 100 statistical operations and tests. Over 50 statistical probability distributions and their inverses. Over 100 data and signal processing operations.

Series, rational, polynomial and least-squares approximations. Over 200 vector and matrix commands plus 50 symbolic commands. Evaluation of complex contour integrals, residues, symbolic inverse Laplace and Z transforms. Runge-Kutta numerical and symbolic solutions for scalar, vector and simultaneous DEs.

Symbolic and numerical solutions of state space matrix differential and difference equations. Over 200 algebra operations, including 3 powerful complex-coefficient polynomial root-solvers. Over 50 data editing, sorting, windowing, clipping, and peak and valley analysis commands. Numerical differentiation and integration.

Believe this: it solves a 40 × 40 system of linear equations in under 4 minutes!
Stock #2694 (Eng/Math Lib, 632 p hrd bnd hndbk & crd) . . . \$139.95



HP 48SX/GX Math Library General Application Programs

John Holland

$$\begin{bmatrix} -3E-12 & -5E-12 & -7E-12 \\ 8E-12 & 1E-11 & 2E-11 \\ 2E-12 & 4E-12 & 7E-12 \end{bmatrix}$$

An introduction of Symbolic and Complex Computation with Applications

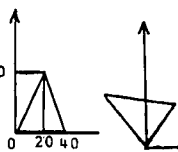
- 370 examples from the MATHLIB manual that show how to apply MATHLIB to your specific applications
- moments and evaluation of over 40 probability distributions, including even Bose-Einstein, Dirac Delta, Kolmogorov-Smirnov, Maxwell, etc.
- 13 advanced distributions including joint distributions and some from Non-linear Control Theory
- 200 symbolic function definitions
- 17 Weierstrass elliptic function programs
- a detailed tutorial on Wavelets and related engineering topics including the M-band case—over 70 programs on this hot research topic, rich with symbolic and numerical algorithms and techniques
- advanced plotting, continued fractions, polynomial GCD, simulation of difficult computations, large integer arithmetic and various symbolic tricks
- comprehensive 160 page manual plus programs on ROM card or else 3.5" disk for downloading

Stock #2902 (HP 48 Application Programs, 3.5") \$59.95

Stock #2903 (HP 48 Application Programs, card) \$99.95

HP 48 series

software continued

Linear algebra 13 Linear equations (Gauss algorithm)..... Matrix calculations..... Addition..... Multiplication..... Inverting..... Determinant..... Rank..... Trace..... Orthogonal matrix..... Transposed matrix..... Symmetric..... Linear transformations..... 2 D transformations (two dimensions)..... Rotation..... Translation..... Scaling..... Bringsild	2 D transformations (two dimensions) 	Inverse student-t Binomial distribution Student-t distr. degrees of freed. $K P(X \leq x) = p$	Half range expansion $f(t) = a_0 + \sum b_n \sin(\omega t)$
LAPLACE TRANSFORMS FOURIER SERIES LINEAR PROGRAMMING	Rotation about (x0,y0) : X Y: 2 5 : X0 Y0: 2 2 : ϕ : 45	Laplace transforms $a \cdot y'' + b \cdot y' + c \cdot y = f(t)$ $F(s) = L\{f(t)\}$: t s: t s : f(t): $t^2 \cdot u(t-1)$	Differential equations $ay'' + by' + cy = f(t)$ $y(0) = y_0, y'(0) = Dy_0$: a b c y0 Dy0 : 1 3 2 0 1 : f(t) t: 'SIN(t)' t

HS/College Math Pac 1

for your HP 48SX/GX

**powerful symbolic integration
for your Calculus course**

Algebra, including functions of 1 or several variables and graphs, complex numbers and linear equations with parameters.

Definite integrals. Symbolic integration by partial fractions, by parts, by substitution. Improper integrals.

Differential equations and initial-value problems and separable equations. First-order DEs; second-order DEs by undetermined coefficients and Lagrange method.

Binomial, power and geometric series. Convergence by ratio, Leibnitz and integral tests. Comes with a supplement of 200 worked examples.

Stock #2670 (Math I, card) \$99.95

Geometry Pac 1 for your HP 48SX/GX

Analytic Geometry—even finds equations of the circle through 3 points or tangents from points outside circle or ellipse. Distances. Areas. Coordinate transformations.

Surveying—coordinates, polygons, error estimates, triangulations, areas, altimetry.

Triangle Solutions—solves where 2 or 3 angles are given, or 2 or 3 sides.

Stock #2908 (Geometry Pac 1, card) \$109.95

University Math Pac

for your Linear Algebra course

Linear Algebra, including matrices, transformations and systems of equations, eigenvalues and eigenvectors.

Linear programming, Laplace Transforms, Fourier Series, Statistics, Numerical Methods.

Stock #2697 (Math II for SX only, card) \$99.95

Stock #2795 (Math II for GX only, card) \$99.95

Professional Extension Math Pac

for Probability/Statistics and
advanced Linear Algebra courses

■ includes everything in Stock #2697/2795 plus SmartROM
(see description in Programming Aids)

Extended matrix manipulations with symbolic elements, extended string & list & stack manipulations, plus new graphic possibilities.

LaPlace transforms and symbolic Fourier series. Linear programming.

Probability with hypergeometric, binomial, Pascal, normal, Poisson distributions. Statistics with chi-square and Student's t, confidence intervals, curve fitting and description of samples.

Stock #2734 (Prof. Extension Math II for SX only, card) \$114.95

Stock #2794 (Prof. Extension Math II for GX only, card) \$114.95

Business Pac

for your HP 48SX/GX

Just plug this in to transform your 48 into a Business Consultant!

TVM including payments and amortization tables plus interest conversion. Cashflow calculations with NPV, IRR—plus plot NPV by IRR and visualize cashflow by profile plot.

Bond calculations for US Treasury Bonds and Notes, Federal Agency instruments, State and Local Governments.

Option Valuation by Black-Scholes for American and European options.

Probability Distribution including Normal, Student's t, Chi Square, Fischer, Gamma, Binomial, Poisson. Multiple Regression Analysis and ANOVA. Also does Currency Conversion and Depreciation (5 methods).

Stock #2669 (48 Business Pac, card) \$96.95

To get a **FREE HP 41/71 Accessories Catalog**,
call (800)677-7001, ext 134.

Calculator Bulletin Board System

This is an HP service where users and developers can exchange software and information. It operates at 300/1200/2400 baud, full duplex, no parity, 8 bits, 1 stop bit; the phone number is (503)750-4448. This service is **FREE**; you pay only the long-distance telephone charge. The HP BBS is the best source for programs.

Attention: Club Secretaries!

Let us know what your calculator club is doing — EduCALC will spread the word! Call (800)677-7001 and ask for Richard Nelson.

HP 48 series

software continued

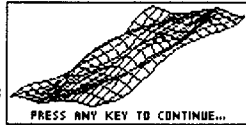
Calculus Pac

for HP 48SX/GX

complete with Vector Analysis

Sparcom
CORPORATION

- Professionals get handsome, accurate results
- Students get easy, quick help for better grades
- Functions Library, with curve-fitting routines (even cubic splines), polynomial interpolation, and root-finding (any degree).
- Integration by left, right, midpoint of rectangles, trapezoids, Simpson's rule.
- Integral Tables with over 100 entries, plus you can add your own.
- Limit analysis checks your function, sequence, series or recursion for convergence/divergence while you watch the digits change.
- Graphics include 2D and 3D plots, including hidden-line removal.
- Symbolic Vectors manipulated with cross and dot products, gradient, divergence and curl.



PRESS ANY KEY TO CONTINUE...

Stock #2691 (Calculus Pac, card) List \$100 \$89.95

HYDRAtools

solves pipe-flow problems
for S/SX/G/GX

An easy-to-use full screen menu driven software application. Provides quick solutions to full and part-full PIPE flow problems, performs calculations for the hydraulic design and analysis of channels having TRAPEZOIDAL, TRIANGULAR, RECTANGULAR or PARABOLIC cross sections; computes the capacity and depth of GUTTER flows for inlet design, and solves the equations for ORIFICE and WEIR flows. Comes on a 5.25" disk with a reference manual. Requires serial cable and 18K of memory.

Stock #2904 (HYDRAtools, 5.25") \$49

Stock #2904A (HYDRAtools, card) \$99

HYDROmate

hydrology software for the HP 48SX/GX

Features easy-to-use pull-down menus for performing SCS TR-55 computations and report preparation. Calculates storm runoff volumes and the peak rate of discharge for the 1, 2, 5, 10, 25, 50 and 100 year storms using multiple rainfall data. Interfaces with electronic planimeters and PCs. HYDROmate also includes HYDRAtools. Comes on a 128K ROM card with a reference manual—requires a 32K or 128K RAM card for SX use.

Stock #2905 (HYDROmate, card) List \$249 \$219

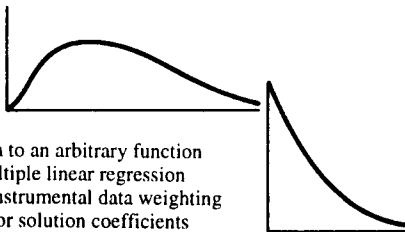
RAMSS

Q AREA: H	1	2	5	10
STORM	2.50	3.10	4.00	5.00
IN: P	0.18	0.14	0.11	0.10
U.P.O.	779.49	797.21	814.19	819.46
MUNOFF	1.00	1.46	2.20	3.08
PERK-C	36.76	54.92	84.75	119.22
MODE	TYPE H	STORM	TYPE CHIT	

HP 48 Regression Analysis Package

for S/SX/G/GX

Monosmith



- Nonlinear regression fits data to an arbitrary function
- One or two dimensional multiple linear regression
- Implements statistical and instrumental data weighting
- Calculates probable errors for solution coefficients
- Plots both data and the solution function
- Solves for up to 16 fit parameters
- Number of Data points limited only by available RAM

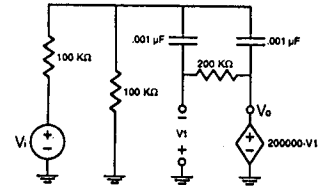
The most powerful curve fit package available for any calculator, and runs in only 11K. Also included: a library of 124 physical, astronomical and mathematical constants and a Time Value of Money program.

Stock #2774 (Regression Analysis, 3.5") \$39.95

VERBB Circuit Analysis Software for the HP 48SX/GX

MicroNation

Analyze any arbitrary linear circuit. Enter circuits by drawing them directly onto the HP 48SX screen using the cursor and menu keys. This makes entering circuits easy—you won't waste time making Spice-like net lists.



Quickly derive exact s-domain transfer functions from any linear circuit. Solve for the AC or DC response. Derive input or output impedance equations. Perform frequency analysis—plot up to ten decades of both magnitude and phase Bode plots. Plot time domain response of circuits to seven different input functions with eleven variable parameters. Plot to screen or send data to a larger computer.

Uses about 40 bytes of memory per component, so you can analyze fairly large circuits with only 32K of RAM.

VERBB comes on a 128K ROM card. The instruction manual contains many tutorial examples and a quick reference card that fits the calculator's case.

Stock #2693 (VERBB, ROM card) List \$135 \$124.95

E. Z. Arithmetic for SX/GX

Basic elementary-school or remedial course—strongly reinforces computational skills to make arithmetic a snap.

Stock #2576 (E.Z. Arithmetic, 128K ROM card) List \$130 \$99.95

EQuation Xpert for S/SX/G/GX

VectorSoft

Create your own custom equation directory—here's your graphic interface software.

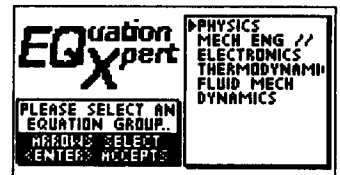
You simply store your equations by category and subject—EQuation Xpert does the rest. You'll have the option to add equation-related information, graphics objects and AutoVARS.

Then you can select equations by description, scroll, expand your windows, drop an equation to stack or to SOLVER. You can view equation-list, equation and user information on screen all at once.

Includes Manual; comes on ROM card or on disk for downloading from PC.

Stock #2947 (EQuation Xpert, 3.5" disk) \$29.95

Stock #2948 (EQuation Xpert, card) \$59.95



CalcWare disk-based software for HP 48G/GX

*Brand
New*

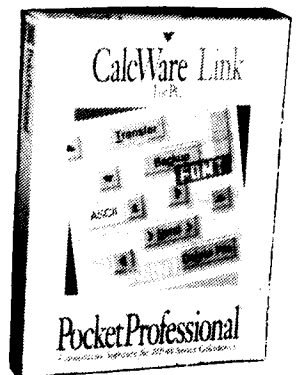
Sparcom
CORPORATION

Save BIG on these easy-to-use programs—you download them from a PC to your 48 using a connectivity kit.

- Precalculus**—algebra, geometry, trig and hyperbolic. Covers algebraic functions, curve fittings, hyperbolic definitions, the Greek alphabet, quadratic surfaces, and SI prefixes.
- Calculus and Advanced Math**—includes integration, derivatives, integrals, series, transforms, and vectors.

Stock #3266 (48 Precalculus, 3.5") \$39.95

Stock #3267 (48 Calculus/Adv Math, 3.5") \$39.95



Read our mail from California—

The HP 48SX is really a wonderful educational tool. Thank you for providing it and for the very professional manner EduCALC treats its customers. James F. Gordon, Los Angeles

HP 48 series

software continued

HP 48SX/GX Application Cards for ME, EE, Gen Chem, and Math

Sparcom
CORPORATION

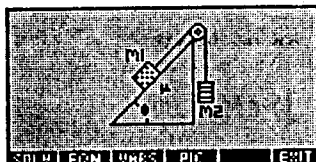
Multi-Sale!

Get all the Sparcom Application Cards you need right now, or get a buddy, and save double discount *** — use our regular stock number and discount price for the first card on your order but use the underneath stock number (ending in 'M') for your second, third, ... cards on the same order

There are two types of these "Pocket Professional" software cards for each field. The **Applications Pacs** are designed for **undergraduate students**—each contains hundreds of equations with diagrams, charts and tables, analyses and reference tables in easy-to-use menu-driven format. No need to program, manage units or find constants—the solutions are built in, ready for use in class or lab, office or field.

The **Reference Pacs** have thousands of data entries, so you have calculator and handbook combined, with no programming needed!

ME Applications Pac—over 350 equations from fluid mechanics, heat transfer, gases, beams, stress analysis, machine design and more. Analysis sections include inclined plane, steam tables and thermocouples. Uses SI units.

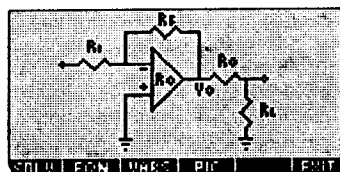


Stock #2290 (ME Applications, card) List \$100 \$89.95
Stock #2290M (ME Applns, card) Multi-price \$79.95

ME Reference Library—over 3000 entries from nine subject areas; including properties of solids and liquids, composition of metals, refrigerants, fuels and combustion, thermal properties, saturated gas properties and more.

Stock #2291 (ME Reference, card) List \$100 \$89.95
Stock #2291M (ME Reference, card) Multi-price \$79.95

EE Applications Pac—over 300 equations in circuit elements, DC circuits, RL and RC circuits, RLC circuits, OpAmp circuits, solid state devices and more. Analysis sections include simple AC circuits, Fourier and Laplace transforms, ladder network analysis and two-port networks.



Stock #2292 (EE Applications, card) List \$100 \$89.95
Stock #2292M (EE Applns, card) Multi-price \$79.95

EE Reference Library—over 3000 entries from seven subject areas; covering properties of Silicon, digital specifications, properties of lasers, III-V and II-VI compounds, standard component values, wire gauge, and dielectric and magnetic properties.

Stock #2293 (EE Reference, card) List \$100 \$89.95
Stock #2293M (EE Reference, card) Multi-price \$79.95

Diagram 1: OpAmp circuit with feedback resistors R_1, R_2, R_3 and input resistors R_f, R_s . Equation:
$$1 + \frac{R_f}{R_s} = 1 + \frac{1}{\beta \cdot A_V}$$

Diagram 2: Mechanical diagram of a piston-cylinder system with pressure P , volume V , and area A . Equation:
$$\frac{S}{(-3, 4)} \cdot \left[1 - \frac{S}{(-3, -4)} \right]$$

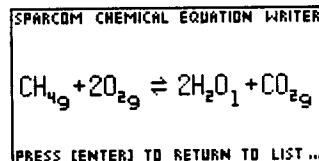
Diagram 3: Electrical circuit diagram with a current source I , resistors R_1, R_2, R_3 , and a capacitor C_1 . Equation:
$$\frac{S}{(-6, 8)} \cdot \left[1 - \frac{S}{(-6, -8)} \right]$$

Diagram 4: Color calibration chart with 12 color patches: BLACK, BROWN, RED, ORANGE, YELLOW, GREEN, BLUE, VIOLET, GREY, WHITE, SILVER, GOLD.

Diagram 5: Mathematical equation for a system of linear equations. Equation:
$$\frac{R_2}{1 + \omega^2 \cdot C^2 \cdot R^2}$$

General Chemistry Applications

Pac—over 150 equations from kinetics, acids/bases, gases, precipitation and more. Plot pH titration curves and radial functions. Periodic Table includes 14 properties of each element. A chemical-equation writer that calculates theoretical yields, limiting reagents, and checks balance. Molecular weight calculator.



Stock #2294 (Chem Applications, card) List \$100 \$89.95
Stock #2294M (Chem Applns, card) Multi-price \$79.95

Chem Reference Library—over 3000 entries in eleven subject areas; elements, solids, acids/bases, thermodynamics, complexes, solubilities, electrochemistry, water and bonds.

Stock #2295 (Chem Reference, card) List \$100 \$89.95
Stock #2295M (Chem Reference, card) Multi-price \$79.95

Mathematics Applications Pac—easy access to algebraic utilities: cubic/quartic solver, combinations/permutations, base conversions, LCM/GCD/prime factors. Trig includes graphs and definitions for trig and hyperbolic functions plus equations and identities. Calculus: derivative and integral tables with electronic search, vector analysis and Laplacian in polar, rectangular and spherical coordinates. Fourier, Laplace and Z transforms.

Stock #2324 (Math Applications, card) List \$100 \$89.95
Stock #2324M (Math Applns, card) Multi-price \$79.95

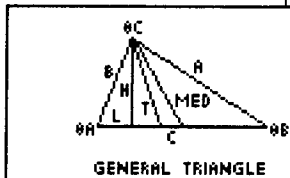
Save \$\$ in our close-out sale - While they last!

Application and Reference Cards for the **HP 48SX only**. These are the same programs as in our regular cards above, but they will not perform properly in an HP 48GX.

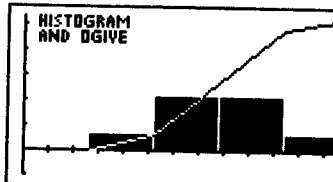
Stock #2290SX (ME Applications, card) List \$100 \$49.95
Stock #2291SX (ME Reference, card) List \$100 \$49.95
Stock #2292SX (EE Applications, card) List \$100 \$49.95
Stock #2293SX (EE Reference, card) List \$100 \$49.95
Stock #2294SX (Chem Applications, card) List \$100 \$49.95
Stock #2295SX (Chem Reference, card) List \$100 \$49.95
Stock #2323SX (PIM Card) List \$100 \$49.95

Pocket Professional Software for the HP 48SX/GX

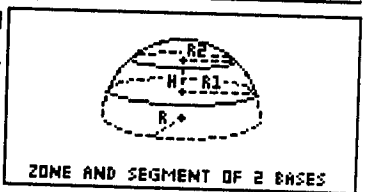
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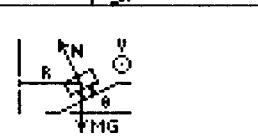
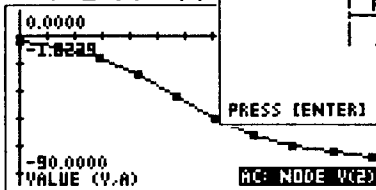
V-Source
Element: VS
Node (+): 1
Node (-): 0
→DC Value (V): 0
Value (V): (1,40)
nsient: PULSE
*STK PRINT VIEW FONT UP



INTEGRALS
6: User-Defined
1: Elementary
2: A+BX
3: A+BX, C+DX
4: A+BX^N
5: C^2+X^2, X^2-C^2
HOME VIEW FIND OPTS PATH UP

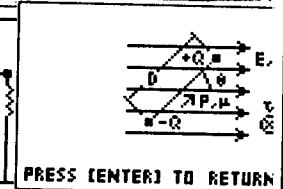
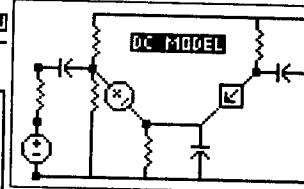


Statistics
→Matrix Ma
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→Column:
Minimum: 0
Maximum: 100
Bin Width: 20
No. Bins: 5



Spice48

A self-contained circuit analysis tool used to calculate and view the complete response of linear circuits — you'll describe your circuit easily with a menu-driven browser format. The size of the circuit that you can analyze is determined by available memory, number of circuit elements, and nodes. You can store files in your desktop computer.

When you've entered your circuit, you can analyze quiescent operating points, steady-state small signal response, transfer function at any two nodes, do a circuit response to a frequency sweep, or transient response.

Spice48 is an adaptation of the work carried out by the CAD group at the University of California. In the past 15 years SPICE has become the standard circuit simulation tool around the world.

Stock #2589 (Spice48, card) List \$100 \$89.95

Physics Pac

Equation library with over 300 equations in Angular Mechanics, Electricity, Forces/Energy/Work, Gravitation, Linear Mechanics, Magnetism, Optics, Oscillatory Motion, Special Relativity, and Waves.

Special functions section includes binomial and Taylor function definitions, coefficients, and expansions.

Vector Analysis programmable functions, including dot, cross, del, gradient, divergence, curl, and Laplacian.

Integral table, Polynomial Solver, and Linear Algebra section are included. You'll quickly access reference data and formulas along with a whole library of constants.

Stock #2599 (Physics Pac, card) List \$100 \$89.95

Statistics Pac

All the stats tools students and professionals want close at hand, with Sparcom's easy-to-use interface—Central Tendency, Standard Error, 14 Probability Distributions, Regression Analysis and 5 different plotting functions.

Perform 8 kinds of Hypothesis Tests. Supply raw data and specific population parameters such as μ , σ and α to get z , $z_{\alpha/2}$ and P-values. Run 7 different Confidence Interval Tests. Estimate Sample Size needed before an experiment begins.

Enter and store raw data with Matrix Manager, then transform it to grouped data with a few keystrokes. Move large data sets from PC to calculator and back to PC with automatic translation.

Stock #2743 (Statistics Pac, card) List \$100 \$89.95

Save \$\$ in our close-out sale - While they last!

Pocket Professional Software Cards for the HP 48SX only. These are the same programs as in our regular cards above, but they will not perform properly in an HP 48GX.

Stock #2589SX (Spice48, card for SX only)	\$49.95
Stock #2743SX (Statistics Pac, card for SX only)	\$49.95
Stock #2590SX (SS Electronics, card for SX only)	\$49.95
Stock #2636SX (Celestial Nav Pac, card for SX only)	\$49.95

Math•Pro

Here's the way you can instantly transform your HP 48 SX/GX into a technical-information powerhouse!

For professionals and students in engineering, math and the physical sciences. Menu-driven so it's easy to use, for preprogrammed equations and formulae, electronic reference data and one-step unit entry and conversion. Fast, with on-line HELP.

Over 1000 equations, routines and tables for arithmetic, algebra, geometry, trig, hyperbolics, calculus, curve-fitting, transforms, quadric surfaces, partial-fractions. Valuable routines like Simpson's rule and the general triangle solution.

Stock #2960 (Math-Pro, card) List \$110 \$99.95

EE•Pro

Transfer your HP 48SX/GX into an ultra-fast, easy-to-use electronic hand-book—high-speed problem-solving for EE professionals and students.

Over 1000 equations and analysis routines with reference data — includes Bridge, RL, RC, RLC, AC, Polyphase, OpAmp and Linear Amplifier Circuits; Meters, Resonance, Solid State Devices.

Functions from HP's famous 16C computer-engineering calculator are built in, including integer arithmetic, base conversion and bit manipulation. Also has on-line help text, font options and customizable scrolling-speed settings.

You'll compare, solve, plot and analyze equations without tedious programming or searching through handbooks.

Stock #3025 (EE•Pro, card) List \$110 \$99.95

HP 48 series

software continued

Structural Analysis Card for the HP 48SX/GX

TDS

Structural Engineers and their students find these menu and screen-driven plug-in programs easy to learn, easy to use.

General Beam, Plane Frame, Concrete Column, and Steel Column and Beam Analysis programs. User's Manual includes sample problems and a short list of references with each program.

Stock #2487 (Structural Analysis, 48 card) List \$125 . \$109.95

TFR48 File Transfer and Conversion Software for SX/GX

Transfer raw data, point lists and coordinate files back and forth from your office PC to and from your HP 48SX with Survey Card—edit your raw data in the PC, process new coordinates from the edited data, and convert the data format to be compatible with any one of two dozen other surveying and CAD based software packages.

For example, back in your office you discover that your rod man changed the rod height during the job, but neglected to make the change in the 48, so elevations are all wrong from that point on. No problem—you can edit in your PC using TFR48! Context-sensitive HELP is always available at the touch of a key.

You'll need a PC or AT running DOS 2.11 or greater, 512K RAM, plus the 48-to-PC Serial Cable (#F1015A).

Stock #2278 (TFR48 PC Program, 3.5") List \$250 . \$224.95

Easy Survey Plus—PC Software, works with SX/GX

So you'll have the same menus, screens and functions on your office PC as you use in the field with TDS Survey Cards

Includes all data collection functions, extended COGO, street intersection layouts, contour mapping advanced road layout. Least-squares adjustment and plotting. DC LINK accepts field data from some other data collectors.

Contains a powerful, easy-to-use AUTO LINE-WORK function—with a few codes entered in the field, you can design a plot and later draw your survey map automatically.

Stock #2932 (PC Easy Survey, 3.5" & 5.25") List \$1095 . \$729

Surveying Card for SX/GX

TDS

- | | | |
|-------------------------|-------------|----------------------|
| ■ Setup Functions | ■ Stake out | ■ Adjustments |
| ■ Job Creation & Review | ■ Sunshots | ■ Screen Plotting |
| ■ Coordinate Geometry | ■ Curves | ■ Calculator (HP 48) |
| ■ File Transfer to PC | ■ Printing | ■ Data Collection |

A plug-in software card that's quick to learn and easy to use—plus, it even displays curves graphically.

Uses full HP 48SX or GX capability—you move around the screen with cursor keys, use menus and softkeys for quick access to surveying functions. With RAM card installed you can collect field data up to 12,000 points, including Northing, Easting, elevation and 16 character point descriptors. InfraRed Interface squirts data to printer or to another HP 48SX or GX.

You can develop a descriptor code table and designate control files. The points or lines of an active job can be displayed on the screen of your 48.

Optional spring-clip Tripod Bracket holds your HP 48SX or GX as you work. Choose correct cable to fit your brand of total station.

Stock #2239 [TDS Surveying card for 48SX] List \$550 \$459.95

Stock #2775 [TDS Surveying card for 48GX] List \$550 \$459.95

Stock #2261 [TDS Tripod Bracket] List \$75 \$69.95

Stock #2253A [TDS Cable, Sokkia/Topcon] List \$75 \$69.95

Stock #2254A [TDS Cable, Nikon/Top Gun] List \$75 \$69.95

Stock #2255A [TDS Cable, Zeiss] List \$75 \$69.95

Stock #2256 [TDS Cable, Pentax] List \$95 \$89.95

Stock #2257A [TDS Cable, Geodimeter] List \$75 \$69.95

Stock #2258 [TDS Cable, Kern] List \$95 \$89.95

Stock #2266 [TDS CoGo only, card] List \$145 \$124.95

Stock #2269 [SX Survey card Demo, 3.5" disk] deposit \$35.00

Stock #2260 [TDS Cable, Wild Stn] List \$95 \$89.95

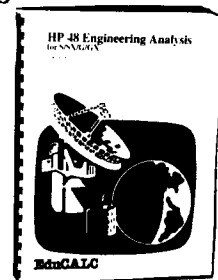
HP 48 Engineering Analysis for S/SX/G/GX

by Robert Boyd

Analyze circuits with the full power of your 48—programs come with listings (also on included 3.5" disc), examples (so you can check your program), discussions and references.

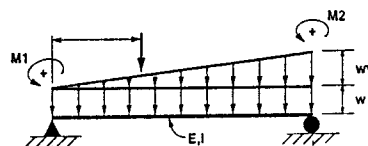
Includes State Space Methods, Polynomials, Signal Processing and Transfer Functions. Plus goodies like Gain Ratios, Splines, Kalman Filtering, Inductors and CRT Pincushion Distortion, Worst Case Analysis and Opamp Stability.

Stock #2911, HP 48 Engineering Analysis, 112p softbound . \$17.75



Structural Engineering Program Card for the HP 48SX/GX

SMI



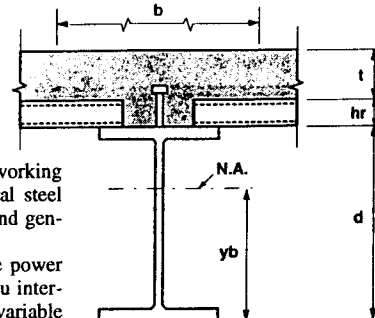
Aids and tools for your design work—7 user-interactive programs and a database (for 415 AISC 9th edn shapes).

Programs analyze beams and columns, column base plates, single-span beams, rigid rectangular spread foundations, cantilever retaining walls, pile groups for rigid pile caps, rectangular concrete beams.

Stock #2875 (HP 48 Structural Eng Programs, card) . . . \$134.95

Structural Engineering Equation Card for the HP 48SX/GX

SMI



Analysis and design tools for the working engineer—covers topics in structural steel design, reinforced concrete design and general structural analysis.

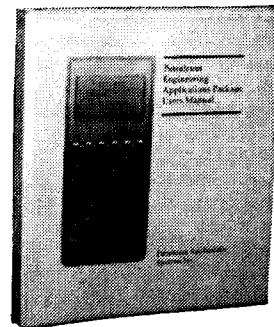
Equations for each topic, plus the power of the HP SOLVE function, give you interactive solutions for any unknown variable when you have the other data.

Stock #2876 (HP 48 Structural Eng Equation, card) . . . \$134.95

Petroleum Engineering Application Package on ROM card for SX/GX

Petroleum
Application
Systems

New



Increase your productivity by decreasing the time spent for "quick" hand calculations.

Menu-driven for Fluid Correlations (oil, gas, water), Economics (petroleum cashflow, exponential decline), Logging (shaly and clean sand analyses, water resistivity), plus a large Equation Catalog and Miscellaneous Applications (pipe displacement and capacity, frictional pressure drop, gas well bottomhole pressure).

Stock #2998 (Petroleum Eng Apps, card) List \$112 . . . \$99.95

software continued

Surveyor's Software ROM Cards for the HP 48SX/GX

SMI

Civil Engineering Card includes vertical curves, horizontal curve layout, earthworks, hydrology programs for designing various open-channel ditches, pipe sizes for storm and sanitary sewer.

Stock #2297 (Civil Engineering, card) List \$105 \$91.95

State Plane & UTM Coordinate System plus Geodetic Forward & Inverse based on C&G Survey Publication 62-4 and on papers by T. Vincenty, as adapted to take advantage of the computing power of your HP 48SX.

Stock #2645 (48 State Plane, card) List \$150 \$129.95

Construction 1 works with manual or automatic total stations in field-construction operations to do slopstaking, cross sectioning and stakeout based on station and offset configurations. Use for highways, dams, pipelines, topographic surveys, etc.

Stock #2646 (Construction 1, card) List \$350 \$289.95

Coordinate Geometry Enhanced survey software cards to slide into your HP 48GX

SMI

48BCE—Basic COGO power, yet affordable and easy-to-use

Inverse, traverse and side shot, computing areas, perimeters and closure. Stores 100s of points in your 48GX without additional memory, so you do several jobs at the same time. Includes vertical curves, triangle solutions and compass rule adjustment.

Stock #2980 (48BCE, card) List \$150 \$119

48SCE—Standard COGO power second to none

All features of the 48BCE plus 3D surveying earth curvature and refraction, sunshot with its own ephemeris. Inverse by coordinates or by point number, multiple angles, screen plot and south azimuth. Stakeout; COGO functions like perpendicular offset, trig leveling and angle windings.

Stock #2981 (48 SCE, card) List \$300 \$259

48 ACE—Advanced COGO powers at your fingertips

Every feature and function of the 48 BCE and 48 SCE, plus it stores and codes. Notes, codes or elevations can be turned off or on any time. Angle adjustment program handles traverse while holding the angles to the side shots constant. Compass rule program adjusts side shots as well as traverse points. Two-point resection. Transfer elevations from benchmarks to instrument. Trig leveling and mean reciprocal leveling. Offset program.

Stock #2982 (48 ACE, card) List \$600 \$519

CVP^{3.7} Survey Pack complete survey software on a card for HP 48SX/GX



Increase your speed, productivity and accuracy in survey calculation, staking, data collection, plan interpretation and COGO. Input the vertical and horizontal alignment of plans and begin Stake-out of stations and offsets. Electronic cut/fill sheets. 2 point resection. Download data to popular plotting software. C.R., T.R. and angular adjustments with rotation and translation. Triangle and curve solver. Intersections and areas. Connect to NIKON, LIETZ or TOPCON total stations. All on ONE card!!!

The complete, 91-page manual takes you through all the routines step-by-step with examples.

Stock #2976 (Survey Card for HP 48SX/GX) List \$400 \$349

Auto-CADD Scriptwriter utility program for CVP Survey Pack

Are you tired of typing in Auto-CADD commands? No problem—Scriptwriter will do it for you.

Draw lines, polylines and arcs directly from your HP 48 using Survey Pack point numbers. Scriptwriter draws a line annotated with distances and bearings. It even puts the leader arrows on so you don't have to—*watch as your drawings come to life, automatically.*

Perfect for Surveyors doing boundary and Records of Survey.

Stock #3264 (Auto-CADD Scriptwriter, 3.5") \$70

HP 48 Goodies Disks Public-Domain Software Programs

- High Density Disks for PCs; 1.2M 5.25" or 1.44M 3.5" (sorry, there are no Apple or Mac versions as yet)
- Lo-Lo-Cost, Donated Programs—provided as is, without support from EduCALC, HP or anyone else; about half of these programs work on the HP 48G/GX (but that may not be stated)

Each disk comes with descriptive notes. These may also be ordered separately—see page 63 for our 'Technical Notes'. Cumulative Index see TN 53.

No. 1: We have Joseph K. Horn to thank for this: 272 files and 989K bytes on a high-density PC disk, mostly downloaded from HP's Corvallis BBS.

Running analog clock, Finds hex address of any object, Picture of Alfred E. Newman, Intro to 48 assembly language, the game of Blackjack ("21"), HP 48 bugs & version fixes, Graphic calendar maker w/alarms, Differential Equation solvers, HP 41CV Emulator comments, Animated rotating world globe, Play real music w/samples, All about the hidden directory, Tetris video game, much more.

No. 2: We have Derek S. Nickel to thank for this: it contains Voyager V1.0-6, which will allow you to interactively disassemble the contents of the HP 48SX ROM and other 48 programs. There are also HP 48SX Internals, Voyager Reference Manual and Saturn Instruction Set.

No. 3: A continuation of No. 1, also from Joe Horn: 1,012,072 bytes in 264 files—games, utilities, programming hints and aids, fractals and other graphics, numerical routines, hardware secrets, etc.

No. 4: Prepared by HP but not supported or warranted by them: tools for use by a System Level RPL programmer on a PC platform to create HP 48 applications, with documentation. Includes approx. 2000 supported (frozen addresses) system objects.

No. 5: Joe Horn has done it again: many new video games with hi-quality graphics; a TV IR Remote learning program, latest Hacker Tools, Flight Planning, Black Body Emmissions, Internal Messages, Planetary Positions.

No. 6: More animation! Boy, Man, Horse, Eye, Bouncing ball, Life "Game", tank battle. Video Games; Pac Man, Chess, Tetris, Space Invaders. Program Search & Replace, cut redundant RPL, Least Squares, and exact Polynomial Curve Fit, all factors of x, Quick Editor, Turbo IR, Pocket Planetarium, Address Book, 3D Graphing Suite.

No. 7: New! Complete index of GD1 - GD7 and a Global File-Finder by name, keyword, or author (FETCH). Tetris, HP Unassembler, Pacman, Tiny Biorthym, 6 color Mastermind, Super fast FFT, Super fast Poly Roots, 3-D Surface Plotter, 7 Level stack, To-Do List, X & Y Modem, Bonds.

No. 8: Improved index/FETCH GD1 - GD 8, <LIB>, <RPL>, Golf, Mastermind, TRONII, HP's Programs, DiffEq, Weighted Mean SDEV, 15 good articles, Fast List Sort, William Tell, etc. in TUNES, 19,200 baud IR SEND & REC., Celestial Nav., Trip calculator, Hi Acc. parallel Res.

No. 9: Improved DOC file reading; OK S or G series noted; Database; Phone Book; Compress/Uncompress for G/GX; Scheduler BOSS/OZ clone; Clock Auto Adjust; ML Dev Lab; Double Precision Routines; Auto Plot Poly Fit; 7 Videos; IceCube, Pyramid, Asterix, Runway Games; Library Creator; System RPL Dev Toolbox.

Stock #GD1A (HP 48 Goodies Disk No. 1, 5.25" HD) \$4.95
Stock #GD2A (HP 48 Goodies Disk No. 2, 5.25" HD) \$4.95
Stock #GD3A (HP 48 Goodies Disk No. 3, 5.25" HD) \$4.95
Stock #GD4A (HP 48 Goodies Disk No. 4, 5.25" HD) \$4.95
Stock #GD5A (HP 48 Goodies Disk No. 5, 5.25" HD) \$4.95
Stock #GD6A (HP 48 Goodies Disk No. 6, 5.25" HD) \$4.95
Stock #GD7A (HP 48 Goodies Disk No. 7, 5.25" HD) \$4.95
Stock #GD8A (HP 48 Goodies Disk No. 8, 5.25" HD) \$4.95
Stock #GD9A (HP 48 Goodies Disk No. 9, 5.25" HD) \$4.95
Stock #GD1B (HP 48 Goodies Disk No. 1, 3.5" HD) \$4.95
Stock #GD2B (HP 48 Goodies Disk No. 2, 3.5" HD) \$4.95
Stock #GD3B (HP 48 Goodies Disk No. 3, 3.5" HD) \$4.95
Stock #GD4B (HP 48 Goodies Disk No. 4, 3.5" HD) \$4.95
Stock #GD5B (HP 48 Goodies Disk No. 5, 3.5" HD) \$4.95
Stock #GD6B (HP 48 Goodies Disk No. 6, 3.5" HD) \$4.95
Stock #GD7B (HP 48 Goodies Disk No. 7, 3.5" HD) \$4.95
Stock #GD8B (HP 48 Goodies Disk No. 8, 3.5" HD) \$4.95
Stock #GD9B (HP 48 Goodies Disk No. 9, 3.5" HD) \$4.95

HP 48 series

software continued

Celestial Navigation Pac for the HP 48SX/GX

Sparcom
CORPORATION

Become an expert celestial navigator—
and enjoy it!

Route Planning—Great circle course, distance, and position; even calculate way points along the way! Rhumb-line course, distance, and position.

Almanac—Access the perpetual almanac to find position of the sun, planets, or the stars. Even choose between a short or long list of stars.

More goodies—sight reduction, dead reckoning, time of fix, running fix, accuracy of fix, plotting line of position. Messier objects, sextant error, height of eye, atmospheric conditions, time zone and watch error.

Comes on a ROM card; includes manual with examples.

Stock #2636 (Celestial Navigation Pac, card) List \$100 . . . \$89.95

```
Select MENU key
Jupiter
Alt: 26°00.2'
Azim: 268°38.0'
Mag: -2.489
[CHNG] [HOME] [NEXT] [ID] [OTIME] [EXIT]
```

Flight Navigation System for SX/GX

Bringslid

Dead Reckoning on a card for your HP 48SX/GX—weight and balance calculations plus flight plans that are easy to edit (with change of parameters) and reversible. Flight plans may be printed.

Landing Pattern has Magnetic Headings and timing for help during touch-and-go training. Procedure Turns with Mag Heading and Tracks for more accurate flying. View The Route plotted into a grid chart before flight, plus useful options such as a stop watch accessible during flight. Interface for use with GPS engine.

Stock #2831 (Flight Navigation, card) \$119.95

NAVCOM 48SX/GX Marine Navigation



The most advanced celestial computer available—bar none! Over 50 integrated functions to meet your professional or recreational navigation needs. Tested and refined for over 2 years and 30,000 miles at sea. 128K ROM card does not lose programs even if batteries fail. Completely menu-driven, the interaction personal computer style screen makes NAVCOM simple to use. All Prompts, answers, and help screens are displayed in plain English.

Piloting Features

- Electronic, Celestial, Radar, and Visual Fixes
- Maintains Continuous Dead Reckoning Position
- Distance-to-Go/Heading to Steer/ETA/Speed Required to a Waypoint

Route Planning Features

- Complete Voyage Plans from Custom Voyage/Waypoint Catalog
- Rhumbline/Great Circle/Composite track planning
- Automated track plotting to charts

Celestial Features

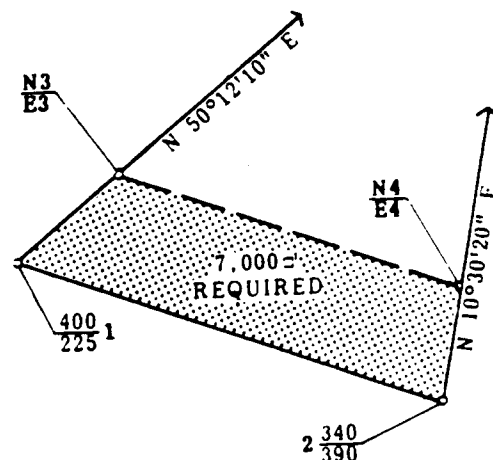
- Almanac: Sun, Moon, Planets, Aries, 58 Nav Stars
- Automatic Sight Timing (internal chronometer)
- Automatic Sextant Corrections
- Finds/Solves Known or Unknown Celestial Sightings
- Plots Celestial Fixes on screen or to a Printer
- Computes Lat/Lon Fix from sights
- Precomputes Best Stars
- Local Apparent Noon/Time of Rise/Set of any Celestial Body

Stock #2772 [NAVCOM 48, card] List \$160 \$149

HP 48S/SX (used Scientific Calculators):
call EduCALC for great savings on used units.

Lo-Cost Surveying Software for the HP 48SX/GX

D'Zign



HP 48 Surveying Pac

Complete lo-cost ROM-card software for your SX or GX

Remember the HP 41 Survey Pac? This modern program upgrades that 41 classic.

Transit Adjustment is omitted here (it's not used much) in favor of Multiple Offsets and Automatic Bearing Recall (which will be real time-savers for you). Plus whole sets of Radial Stakeout programs (with super-fast come-and-go) and Triangle Solutions routines.

You'll do any miscellaneous calculations without leaving whichever program you're using, so you won't lose your place. Angles are entered directly in deg/min/sec. There are no overlays—you'll use your softkeys instead.

Stock #2973 (HP 48 Surveying Pac, card) \$135

Transfer—software to communicate to/from a PC

Kermit, automated file transfer and conversion programs so you can upload files to your PC surveying program, or download from it to your 48. Requires serial cable between PC and 48.

Stock #2958 (Transfer, 5.25" and 3.5") \$49

Surveying Packet #1

Full Coordinate Geometry, including rotation, predetermined areas, intersections and inverse traverse by point numbers for areas. Field layout programs include the best version of our Alignment/Offset programs to date and fast radial inverting. Also has Triangle and Circular Curve solutions and an easy-to-use file system.

Leveling Field Book with 3-wire and trig-leveling options is something new to handhelds. Use the calculator as a field book and print out or automatically adjust the level run later.

New version has spiral curves, resection, A.L.T.A. remote slope staking, topographic pickup, end area volumes, and foot-inch/fraction conversion.

Features free updates and unlimited free support for users. You may program as many calculators as you like with it—merely buy additional manuals at about \$40 each to register for the freebies (and to conform to U.S. copyright law, and to give the workman his due).

Program package comes to you on both 5.25" and 3.5" PC disks—so you'll need a PC and a #F1015A Serial Cable to download programs to your HP 48 (this way, you save memory space by downloading only the programs you need to use). Package includes Owner's Manual and transfer software.

Requires HP 48GX, or 48SX with 128K RAM Card installed.

Stock #2606 (48 Survey Pack #1, 5.25" & 3.5") \$275

EduCALC News Line (714)582-3976

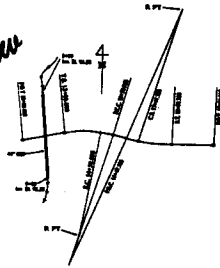
Phone EduCALC any time for weekly reports on the latest products and activities for handhelds and palmtops. Updates are made each Tuesday. Topics include new products or services, special offers, novel applications, and news about the activities of user groups.

HP 48 series

software continued

HIGHRAIL+
for the HP SX/GX
The perfect companion
for a stakeout-challenged
ROM card

Brand New



Cartesian Systems

If your ROM card can't do continuous horizontal and vertical alignment stakeout, consider **HIGHRAIL+**. Leave day-to-day COGO for the card—when a complex project arises, **HIGHRAIL+** will be just a few keystrokes away.

■ Stake any stations at any hinge point ■ Slope stake without setting reference stakes ■ Find a station and hinge point by calculation or coordinates ■ Calculate the coordinates of a station & hinge point ■ Change or create alignments from within the routine ■ Do separate vertical curve/vertical alignment calculations ■ Add, edit, purge, view & print points.

To use this program with HP SX you'll need a 32K RAM card installed—comes on disk to download from DOS or Mac 7.x.

Stock #3038 (**HIGHRAIL+**, 3.5" & 5.25") \$54.95

SURVcalc v. 2.0
reasonably priced
surveying software
for HP 48 SX/GX

*Free - PC-to-SURVcalc
file conversion utility on disk*

Cartesian Systems

Creates continuous horizontal and vertical alignments with which you can do simultaneous x, y & z stakeout—even when slope staking.

■ Sideshots with manual data collection ■ Layouts from a file ■ Two Point Resection ■ Traverse with auto-closure & auto-adjustment ■ Inverse Traverse ■ Areas ■ Volumes ■ Vertical Curves/Straight Grades ■ Clearances ■ Coordinate Transformation ■ Predetermined Areas ■ Intersections ■ Radius Points with Circular Curve Data ■ Triangles ■ File Editing ■ ASCII File Converter.

Requires HP 48SX with 128K RAM card, or 48GX. Comes on disks to download from DOS or Mac 7.x.

Stock #2994 (**SURVcalc**, 3.5" & 5.25") \$94.95

programming aids

AP-View
for HP 48 SX/GX



Give your programs a PC-style screen and keyboard interface—with these 24 integrated utilities you can run your programs entirely through the 48's PICT display environment.

You'll create custom PICT displays, key in numeric or alpha data directly to the PICT display, do calculations within PICT with the 'Mini-Stack' window, make up custom time/date entry and display routines.

'Catalog' function allows fast, alphabetic selection of data objects within PICT. 'Shell' program quickly integrates your routines—you can install these routines as a library or use them individually.

3.5" disk contains instructions, Library and non-Library versions of AP-View, Example Program and Shell. Requires HP Program Development Link or Kermit, a PC, and a working knowledge of the HP 48's programming language (Help-Line phone number included).

Stock #2959 (**AP-View**, 3.5") \$35

Example Display
Time1: 19:41:14 10/25
Time2: 19:41 MON 10/25
Line3: -124
Line4: HBCDE
Line5: Inactive
Line6: Justify
TIME TIME LINE LINE CAT

**Advanced User's
Reference Manual
for HP 48G/GX**

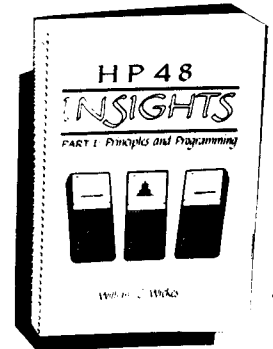


Called AUR in your Owner's Manual—has programming examples, covers Commands, Error & Status Messages, Units, Flags, List Processing.

Stock #2789, 48G Adv User's Ref, 745p softbound \$19.95

**48 Insights, Part I & II
for S/SX or G/GX**

by William Wickes



If you do serious programming on the HP 48, this book is for you

Part I, Principles and Programming.

We are in luck, for sure—the world-expert on the HP 48, Dr. Wickes, is also an excellent expositor. He writes clear and complete explanations that you can quickly understand and put right into your own programming.

Look at these chapter titles:

- | | | |
|--------------------------|--------------------|----------------------------|
| 1. Introduction | 5. Storing Objects | 9. Programming |
| 2. Understanding RPN | 6. Methods | 10. Display Optns/Graphics |
| 3. Objects and Execution | 7. Customization | 11. Arrays and Lists |
| 4. The HP 48 Stack | 8. Problem Solving | 12. Program Development |

Part II, Problem-Solving Resources, covers the applications: SOLVE, PLOT, ALGEGRA, TIME, STAT and UNITS with the same thorough 'insights' as Part I.

Dr. Wickes has written 2 versions of Part I, one for HP S/SX and one for HP G/GX, so you'll have a perfect fit with your instrument. However, either version is mostly directly applicable to the other models as well.

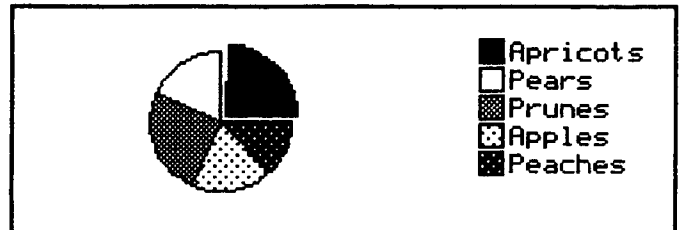
Stock #2322, 48 Insights, Part I, S/SX edn, 393p wirebnd . . \$25.95

Stock #3006, 48 Insights, Part I, G/GX edn, 435p softbnd . . \$25.95

Stock #2358, 48 Insights, Part II, S/SX edn, 340p wirebnd . . \$24.95

SmartRom for HP 48SX

for**CALC**



130 new commands for symbolic matrix handling, data sorting/searching/replacing, easier editing of programs, enhanced string and list manipulation, graphics management, meta-object and stack handling, and system access.

Comes on 32K ROM card. Package also contains a PC disk of application routines like fast Fourier transform, perpetual calendar, cross reference generator, user-defined font manager for handling custom characters, BARPLOT program using shaded patterns, effective compiler/decompiler for RPL internal language, more. 200-page User's Manual included.

Stock #2574 (**SmartROM** for 48, card) ~~\$89.95~~ \$19.95

HP 48 series

programming aids continued

The HP 48 Handbook 2nd Edition The ultimate programmer's how-to and reference book for S/SX/G/GX

by James Donnelly

Covers System Programming

If you intend to make your 48 dance and sing, this is for you. It condenses over 1400 pages of HP manuals into a portable collection of concise, convenient tables, tips and facts. More than example programs illustrate the power of the HP 48G/GX with an emphasis on interactive programming and graphics.

The HP 48 Handbook covers objects/constants/names, memory organization, graphics, statistics, data transfer, menus, user keys, programming, printer control, units, message tables, character codes, flags.

A huge new chapter on System Programming provides a superb introduction to the internals of the HP 48—objects you can use with SYSEVAL! HP manuals don't tell you what's "under the hood", but this chapter does! Any HP 48 owner can get a lot more from their machine with a little knowledge about System Programming!

An expanded Command Reference (over 85 pages) lists the complete stack diagrams for all commands and functions, including notes, related flags, and keystroke access.

Stock #2900, The HP 48 Handbook 2nd Ed., 340p softbnd . \$19.95

The HP 48 Handbook for S/SX only

by James Donnelly

*Price slashed—
While they last!*

If you intend to make your 48 dance and sing, this is for you. It condenses the 1400 pages of Owner's and Programmer's Reference Manuals into 198 pages of concise, convenient tables, tips and facts. There's also a chapter on the Solve Equation Library—functions, commands, applications.

Covers objects/names/constants, memory organization, graphics, statistics, data transfer, menus, user keys, programming, system operations, printer control, units, message tables, character codes, flags, alpha keyboard.

Complete index of commands and functions, with a bonus (54 pages!) of stack diagrams for all commands and functions.

Stock 2246, The HP 48 Handbook, 198p wirebound . ~~\$19.95~~ \$8.95

The HP 48 Programmers Toolkit for S/SX/G/GX

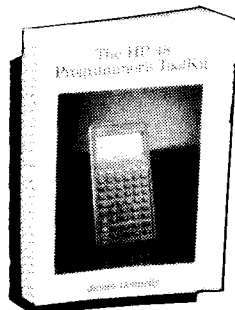
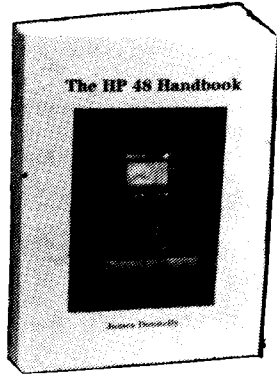
James Donnelly

Turbo charge your own programs with this library of machine-code subroutines—more than 60 new commands for high-speed stack operations, list and string utilities, sorting, graphics, data calculations, meta-object utilities and directory searching—for example, create a 10K character string in one second, or reverse the order of 1000 stack items in two seconds.

Two browser engines provide a front end for your application program (they do the hard work yet leave the fun part for you). Includes editor for building menu-label graphics (for your custom menus).

Everything is clearly documented with examples in the Manual. Comes on disk for PC or Mac, so you'll need an HP Interface Cable to download these programs to your 48.

Stock #2283A (Toolkit, PC Pgms, 3.5") . \$24.95
Stock #2284 (Toolkit, Mac Pgms, 3.5") . \$24.95



HP 48SX Graphics and Graphics on the HP 48G/GX

GRAPEVINE PUBLICATIONS, INC.

Use the full potential of that big display on your HP 48—learn how to build "GROBS" (graphics objects) and how to put them into your own custom diagrams, pictures and plots.

You'll start with an in-depth review of the built-in PLOT and SOLVER graphics tools and how to use them well.

Then you walk through the process of building your own GROBS to produce some very impressive graphics, right on your own HP 48—don't miss it!

Stock #2417, HP 48SX Graphics, 272p softbound . \$9.95

Stock #2928, Graphics on 48G/GX, 300p softbound . \$19.95

HP 48 Programmer's Reference Manual for S/SX



A "must have", for reference and for study

The Command Dictionary for every serious HP 48 user—summarizes each programmable operation, one page per function. Gives usage, syntax in a stack diagram, flags affected, related commands and helpful remarks.

Appendices contain Tables of Error and Status Messages, Units, System Flags, and Reserved Variables.

Stock #2289, HP 48 Pgrmr's Ref Manual, 504p softbound . \$19.95

HP 48S/SX Machine Language

GRAPEVINE PUBLICATIONS, INC.

Run your programs at incredible speed—for serious programmers, here are the inside secrets you've been looking for.

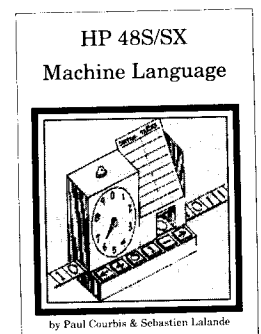
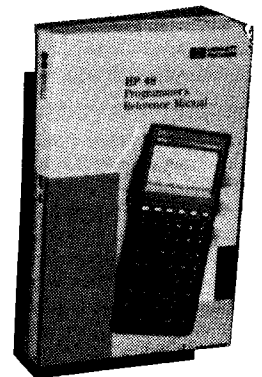
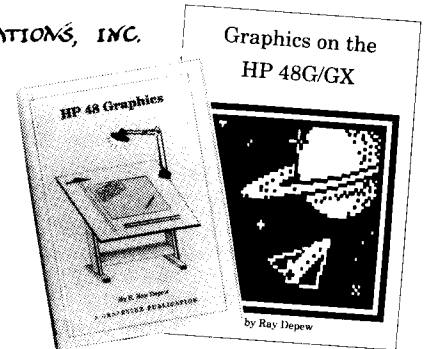
After a quick introduction to the HP 48, you learn all about machine language—what it is and how it works. The you get some 60 useful machine language program examples—everything from utilities to math to games. Extensive appendices list number tables, error messages, instructions and objects. Photocopied.

Stock #2927, 48S/SX Machine Language, 400p wirebound . \$19.95

HP 41CV

Emulator Application Card for the HP 48SX

Stock #82210A [41/48 Emulator, card] List \$100 . \$39.95



HP 48 series

programming aids continued

48SX/GX Application Card Programming Service

Let us make your own 48SX/GX Application Cards for you—just send us your program on a RAM card, and we will duplicate it on an OTP card. Select stock # for quantity pricing. Prices per each card.

Stock #2285A [1 card: 128K OTP, Programmed]	\$49.95
Stock #2285B [2 to 8 cards: 128K OTP, Programmed]	\$39.95
Stock #2285C [9 or more cards: 128K OTP, Programmed]	\$36.95
Stock #2286A [1 card: 32K OTP, Programmed]	\$29.95
Stock #2286B [2 to 8 cards: 32K OTP, Programmed]	\$24.95
Stock #2286C [9 or more cards: 32K OTP, Programmed]	\$19.95

bookware

Using MS-DOS Kermit, 2nd edn for S/SX/G/GX

by Christine Gianone

How to connect your HP 48 to the World, step-by-step

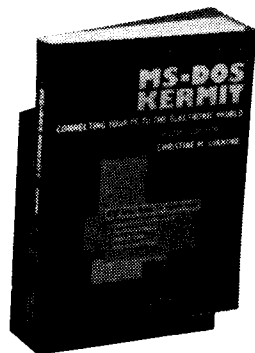
Say *hello* to Compuserve, Dow Jones, MCI Mail, BBS, DIALOG, Telenet, TYMNET—*hello* to your desk PC, to your corporate mainframe.

"Now MS-DOS Kermit has the book it deserves . . . for the average PC user—a person who doesn't care how Kermit works, but who simply needs results . . . Useful examples appear on nearly every page, so you can build your confidence and skill . . . Once the material is mastered, the book remains a thoughtfully organized and valuable reference . . . the tables alone are worth the price of the book." Frank da Cruz, *Columbia University*.

"Covers all the topics needed to start new users easily, and it does it in a natural progression . . . The pace is a lot faster than readers will realize, mostly because the writing is skillful . . . often entertaining and always to the point. This is a terrific book!" says Joe Doupnik, *Utah State University*.

5.25" disk bound into book, plus coupon to send for 3.5" disk—includes HELP, latest updates for version 3.11, graphics and printer routines and several automated DEMOs.

Stock #2448, MS-DOS Kermit, 2nd edn, 345p, 5.25", sftbnd . \$34.95



An HP 48 Calculus Companion for G/GX

by Mathews/Eidswick

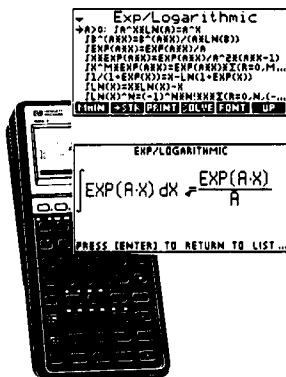
New

A rich collection of examples, exercises and projects that resemble real problems and make use of the power of the HP 48—intended to supplement an 'average' calculus text and be a companion to a student or someone reviewing and refreshing his study.

There are 3 levels of exercises here—the A level is about the same as the examples, B exercises ask you to go beyond the content and level of the worked-out examples and may include some programming, while C exercises are more ambitious and may explore topics like error analysis.

Although written with the 48G in mind, most calculations can be done on the HP 48S as well, and many on the HP 28S.

Stock #3227, 48 Calculus Companion, 319p softbound . . . \$25.95



Calculus on the HP 48G/GX

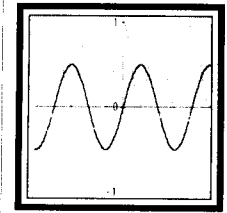
GRAPEVINE PUBLICATIONS, INC.

Get ready now for your college math—plot and solve problems with this terrific collection of lessons, examples and program tricks.

- Limits, series, sums
- Vectors and gradients
- Differentiation: Formal, step-wise, implicit, partial
- Integration: Definite/indef., improper, parts, vectors
- Rates, curve shapes, func. averages, constraints, gr./decay force, vel., accel., arcs, revol., surfaces, solids, and more!

Stock #2931, Calculus on 48G/GX, 250p softbound \$19.95

Calculus on the HP 48G/GX



by Dan Cuffin & Jim Donnelly

Algebra & Pre-Calculus on the HP 48G/GX

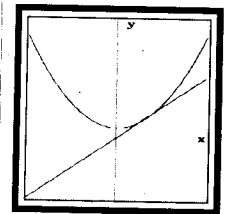
GRAPEVINE PUBLICATIONS, INC.

Grab your calculator, grab this book, and you're all set for math class. You'll get lots of lessons, examples and advice on graphing and problem-solving with these (and more!):

- Functions: Linear, quadratic, rational, polynomial
- Trig ■ Coordinate and analytic geometry
- Conics
- Equations of lines & planes ■ Inequalities ■ Vectors
- Great programmed tricks and tips for plotting and solving

Stock #2930, Algebra/Precalc on 48G/GX, 250p softbnd . . \$19.95

Algebra & Pre-Calculus on the HP 48G/GX



by Dan Cuffin & Jim Donnelly

Calculator Enhancements

workbooks that use your graphing calculator to help study university math

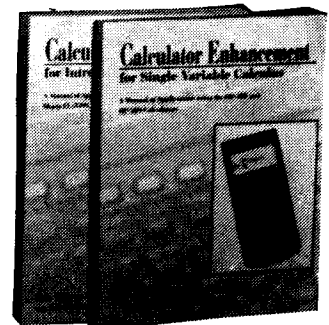
Clemson University
Calculator Project

Here's how your friendly calculator can help you learn math—with programs, tips, tricks, explanations and exercises.

- Single-Variable Calculus
- Introductory Statistics
- Multivariate Calculus
- Linear Algebra
- Differential Equations

All have programs written for the HP 48 (except for the Sharp EL-5200, Stock #2722, in Statistics), but most of them will run on the HP 28S as well, just as they stand.

Stock #2719, Enhance Single Var Calc, 183p softbound . . .	\$14.95
Stock #2720, Enhance Multivariate Calc, 140p softbound . .	\$14.95
Stock #2721, Enhance Differential Eqns, 126p softbound . .	\$14.95
Stock #2722, Enhance Intro Statistics, 281p softbound . . .	\$14.95
Stock #2723, Enhance Linear Algebra, 176p softbound . . .	\$14.95
Stock #2957, Explanations in Algebra (TI-81), 416p softbnd .	\$14.95



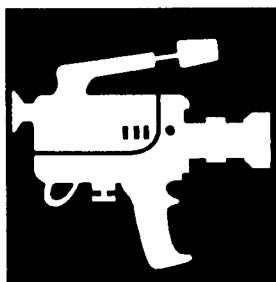
HP 48 series

bookware continued

Learning about the HP 48 a 100 minute Official VIDEO GUIDE for S/SX



LearnKey



Let Nathan Meyers, HP design team member, teach you the advanced capabilities of the HP 48SX.

He'll show you your calculator *in action* — starting with the basics. You'll quickly become a power user, with numeric math, plots, user-defined functions, units, time & dates, alarms.

HP SOLVE and Symbolic Math get special emphasis as this expert guides you to your **easy power with the HP 48!**

Stock #2695 (Learn the HP 48, Video Tape) List \$35 \$19.95

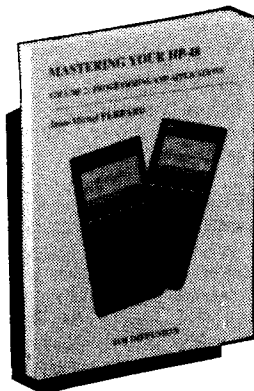
Mastering Your HP 48: Vol. 2: Programming & Applications for S/SX/G/GX

by Jean-Michel Ferrard

Translated from the best-selling French book of ready-to-run math programs (Vol. 1 has not been translated). There's a lot here — if you key them all in they take up 42K. Each program is given with details and diagrams plus an example with run time. The style is easy to copy and to understand.

Program Directories useful to everyone include Arithmetic, Real or Complex Numbers, Polynomials, Fractions, Finite Series and Matrices. Businessmen and students preparing for exams will find Probabilities and Statistics Directories essential. Analysis Techniques and Differential Geometry will be useful in preparing for engineering school exams. Other programs cover Geometry, Graphs, Large Integers and Databases.

Stock #2390, Mastering your HP 48, 277p softbound \$29.95



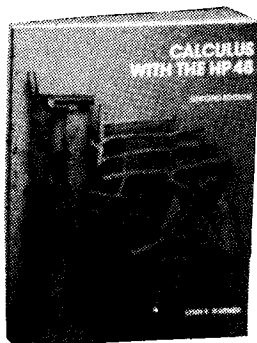
Calculus with the HP 48 2nd edn. for S/SX

by Lynn Garner

Get the most out of your calculus course and your calculator! Here are the tutorial helps, tips, tricks, explanations and programs that you'll need.

Let's say that you know how to do the calculus 'by hand' and are looking for a way to speed up the process with your calculator — you'll find that here, for all the standard topics of a three-semester course, in their standard order.

Stock #2434, Calculus with the HP 48, 127p softbound . . . \$16.95

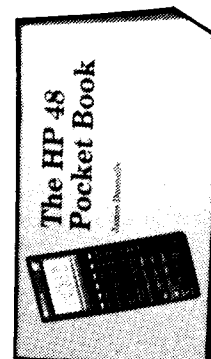


The HP 48 Pocket Book for S/SX/G/GX

by James Donnelly

This handy pocket sized (3.5" x 6") reference for the HP 48 goes where you go! Covers flags, program structures, menus, and much more. Contains an abbreviated reference to all commands in the HP 48G/GX. The perfect handy reminder that doesn't fill your backpack or purse.

Stock #2901, The HP 48 Pocket Book, 54p softbound \$6.95



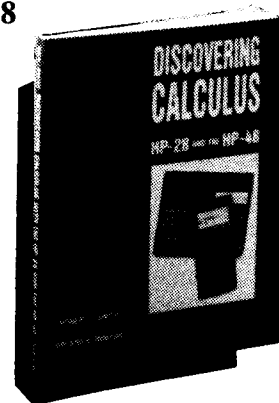
Discovering Calculus with the HP 28 and the HP 48 for S/SX

by Smith/Minton

"Sit down with this book and your calculator and learn calculus with the fresh approach of a new technology."

No experience with graphing calculators is needed — this book starts from scratch. Most of the discussion is self-contained, with all the realistic exercises you'll need, but you will want to refer to your first-year calculus textbook some.

Stock #2647, Discovering Calculus, 277p softbound \$17.95



Stock #875A, HP-71 Owner's Manual	\$12.95
Stock #482, HP-71 IL Owner's Manual	\$22.95
Stock #875B, HP-71 Reference Manual List \$120	\$99.95
Stock #82400A [HP-71 Card Reader] List \$165	\$59.95
Stock #82707A [30 Magnetic Cards]	\$19.95
Stock #82059D [AC Adapter for HP-71]	\$18.95
Stock #82420A [4K RAM Module for 71] List \$75	\$64.95
Stock #82482A (71 Finance Module) List \$75	\$69.95
Stock #82485A (71 Text Editor Module) List \$75	\$69.95
Stock #82481A (71 AC Circuit Module) List \$75	\$69.95
Stock #656 (32K Ram Module, CMT)	\$149.95
Stock #82488A (Data Communications)	\$84.95
Stock #82402A (HP 71 Dual HP-IL)	\$79.95
Stock #82401A (HP IL Interface)	\$105.95
Stock #82462A (Blank Overlays - 5)	\$11.95
Stock #810 (HP 71 Touchpad)	\$4.95
Stock #AAA [Batteries]	ea \$8.99

Used HP Calculators—

Used HP calculators from our Trade-in Program — with manuals, warranted by EduCALC for 6 months. Call Ellen at (800)677-7001, ext. 131 for availability.

Stock #HP48SU [Used HP 48S]	\$65
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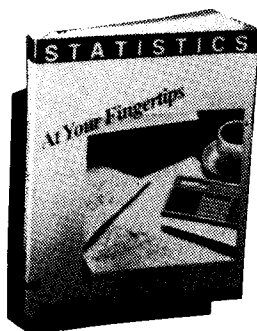
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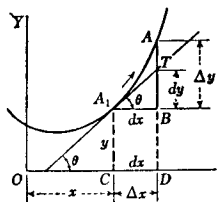
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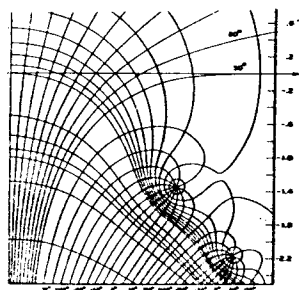
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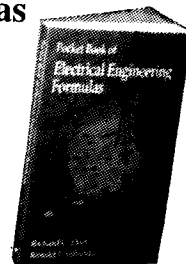
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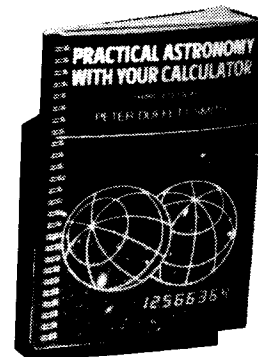
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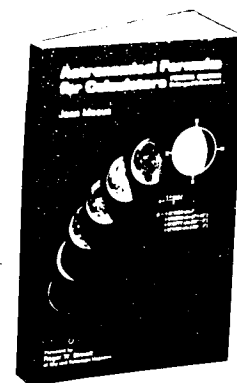
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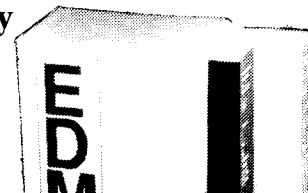
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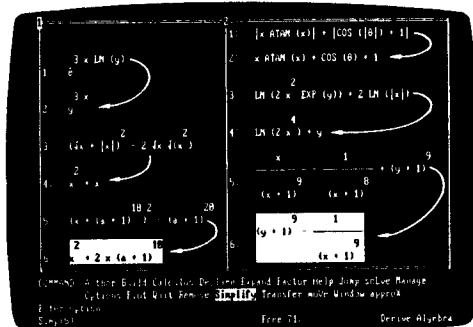
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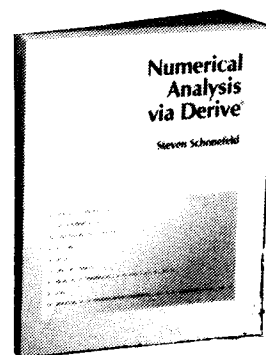
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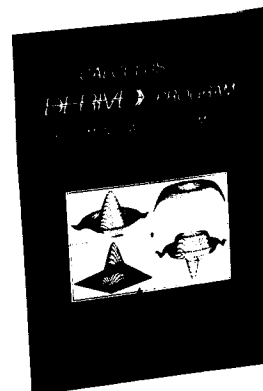
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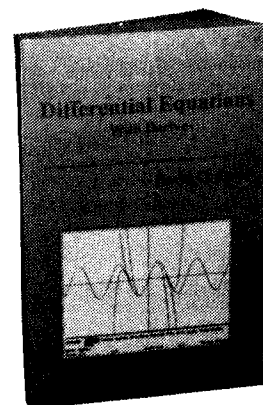
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#17727T	#17728T	#17827P	#17828P	Green	
		#17829P		Aqua	
#17731T	#17732T	#17831P	#17832P	Blue	
		#17833P		Violet	
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Transparency film		•			
Glossy paper	•	•			
Tracing bond					•
Vellum			•	•	
Polyester film			•	•	

Disposable Drafting Pens for vellum or paper

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Blu/R/G/Blk	#17932V	#17933V	#17934V	#17935V
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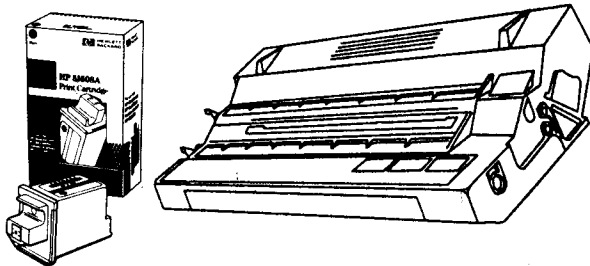
Stock #5062-1592 [0.25mm, Black] List \$24	\$21.95
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- grey scale printing for dramatic black graphics
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- 100-sheet feeder tray, 20-envelope tray with automatic sensor, output tray
- 3 ppm econo or fast mode, 1 ppm presentation mode
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Stock #C2170A [DeskJet 520] List \$365 \$299

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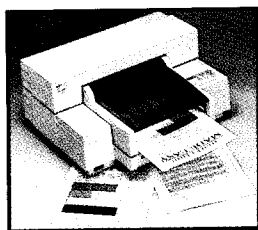
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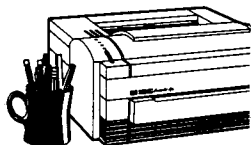
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for Supplies see page 65

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New



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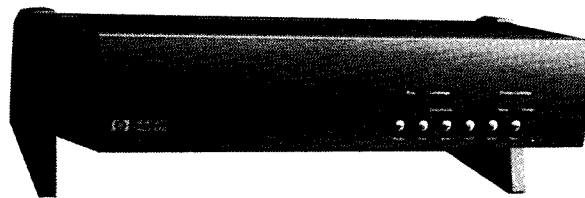
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Stock #C2621A [DeskJet 310 Printer] List \$379 \$319

Stock #C2622A [DeskJet 310/Sheet Feeder] List \$455 \$419

Stock #C3005A [Cut-Sheet Feeder for 300 & 310] \$89

Stock #C3067A [DeskJet Color Kit] List \$49 \$39

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Stock #C3004A [Rapid Recharger, Worldwide] List \$99 \$89

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Stock #C3061A [Low-profile Parallel Cable] \$19

Stock #51633A [Black Print Cartridge] \$20

Stock #51625A [Color Print Cartridge] \$31.95

Stock #C2617A [DeskWriter 310 Printer for Mac] List \$379 \$319

Stock #92215N [AppleTalk Cable] \$28.50

Stock #C3066A [Apple Connect Serial Cable] \$13

Some professional tips on how to get the best from your color printer

- **Easy does it**—it doesn't take much color to be effective, and we all tend to overuse it at first.
- **Use good paper**—bond is better than copier paper, and then coated or even glossy stock. Heavier 24 or 28 lb paper makes handsome leave-behinds. Use inkjet-specific stock for transparencies.
- **Make it legible**—be sure your choice of type faces and sizes is easily read at the distance it will be seen from. Transparencies are special, so check them at a 7 to 10 foot range.
- **Consider more white space**—open up and simplify the copy to make your message easier to understand.
- **Test, test, test**—always print sample pages until you're satisfied with color, paper, type size and density. Does your choice of colors convey the feeling you want your message to have?
- **Prudence pays off**—keep a stack of the papers that you use plus spare cartridges.

see page 43

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