

EduCALC

Catalog #69

SHARP.
ZAURUS.
ZR-5000
 see page 5

TEXAS
INSTRUMENTS
TI-92
Graphic
 see page 40

HEWLETT PACKARD 200LX Palmtop PC • 2MB RAM

Now Applications: 03/07/94 3:58 pm

Phone Book	Note Taker	Memo	Data base	Pocket Quicken	Lotus 123	HP Calc
Calendar	Letter	DOS	World Time	System Macros	Data Conn	Laplink Remote

125K free 529K total

HP 200 LX Palmtop PC
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Laser Pointer Pen

LYTE

- Speakers
- Engineers
- Realtors
- Lawyers
- Teachers
- Architects
- Doctors
- Coaches
- Trainers
- Scientists
- Executives
- 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 metal light-pen. Always with you in your shirt pocket.

Range 350 feet; 2 AAA batteries (incl); black; pen-sized 1/2 x 5 3/4 inches. 1 yr warranty.

Stock #3369 [Laser Ptr] . \$49.95

OfficeJet Printers

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Cover

hp HEWLETT
PACKARD

Printer
Supplies
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Take your new

hp HEWLETT
PACKARD

HP 38G Graphic Calculator

BACK TO SCHOOL
with you!

see page 39

The two BEST PDAs just got BETTER!

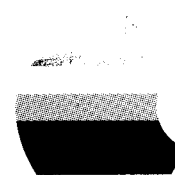
SHARP.

ZAURUS.

ZR-5000

see page 5

Newton
Message
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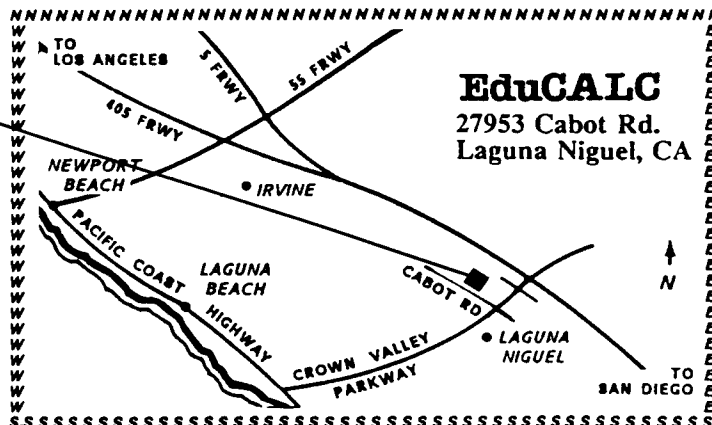
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Laguna Niguel, CA





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Juleigh



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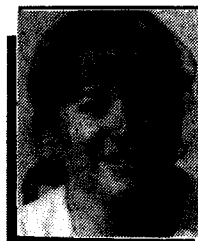
Christy



Beckie



Jim



Beth



Marta



Kaycee
EduCALC's
Official Greeter

Prices effective
September 10, 1995

here's who you'll talk to at EduCALC

EduCALC

27953 Cabot Road
Laguna Niguel, CA 92677

Fall, '95

Dear Reader,

I've got bad news, good news, and further news.

First, some really good news—you can now get a computer, one with state-of-the-art speed and power, that you can carry right along with you wherever you go. Truly portable.

The bad news is, a notebook computer weights 7 pounds or so, and a subnotebook 4 to 5 pounds. That's when you buy it—and it seems to get heavier the second month you lug it around. There's **more bad news** when you try to stuff something the size of a notebook into your jacket pocket.

Let's consider the good news more carefully. You wanted some of the big 5 computer payoffs: Personal Info Management, Communications, Databases, Spreadsheets, and Word Processing. You wanted a typable keyboard and a big, colorful screen. I understand. I have it for you, too, in the HP OmniBook (see pages 23 - 27).

But maybe that's too big and heavy for you—it is for lots of my friends and customers. If so, read on!

The further good news is that the HP 200LX palmtop PC has excellent built-in PIM software, plus it's a DOS machine so it runs Act! and other popular programs. It easily backs up and synchronizes with your desktop PC or LAN, it FAXes and modems, and it joins CompuServe and its e-mail via accIS. It has Quicken and other special databases built in, along with Lotus 1-2-3 (see pages 7-20).

As for word processing, Bruce Herschensohn of KABC wrote a 282-page book using its predecessor, the HP 100LX.

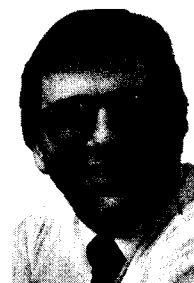
The further bad news is that the HP 200LX has a small monochrome screen—no color.

OK, there's your choice—either you have a big color screen on your portable or else you can carry it around in your jacket pocket. Have it your way.

If you do choose the HP 200LX, you'll get **more good news**. It contains an HP financial calculator, the kind you already know how to use. And it costs a lot less than a notebook.

Sincerely,

Jim
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.

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A Guide to HP Handheld Calculators and Computers

by Wlodek Mier-Jedrzejowicz

Is this a history book or a collector's catalog?

Brand New

Yes. For example, the index will tell you to look for 'turnip' on page 23, where you'll find that this was the code name given to the HP-22 during its development—this business calculator was introduced on August 1, 1975, but upstaged by the HP 27 only 5 months later. "Collectors pay about \$100 for it because of its relative rarity."

Most people don't care much for such information, but if you are one who does, *Boy, Oh, Boy, is this your book!* It covers 70 products, from the HP-35 (Feb. '72) to the HP 38G (Apr. '95), in 66 dense pages of delicious details plus 14 fine color photos. Stock #3358, HP Handhelds, 66p sftbnd . . . \$16

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. 305p, hardbound.

Stock #2543, Conquering Math \$23.50

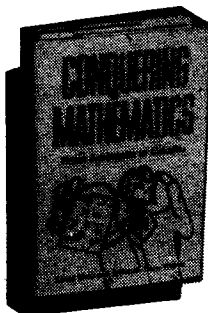
Fuzzy Thinking

by Bart Kosko

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. 318p, softbound.

Stock #3234, Fuzzy Thinking \$11.95



Design Paradigms

by Henry Petroski

- practicing engineers
- engineering students

These case histories of error and judgment in engineering are some of the greatest engineering successes and failures of all time.

Find out how Galileo's good idea for supporting a marble column went wrong—how John Roebling learned from others' errors so he could design his masterpiece, the Brooklyn Bridge.

Jargon and equations are all but eliminated in this book, so it's accessible to everyone who wants to learn about the process of design. 209p, softbound. Stock #3269, Design Paradigms \$17.95

Dead Reckoning calculating without instruments

by Ronald Doerfler

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. 182p, softbound.

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 \$17.95

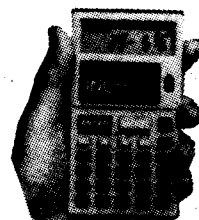
INCH MATE+ The affordable Foot/Inch/Fraction Calculator

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+ [Calculator] List \$50 . . . \$39.95



Construction Master IV 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! You 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.

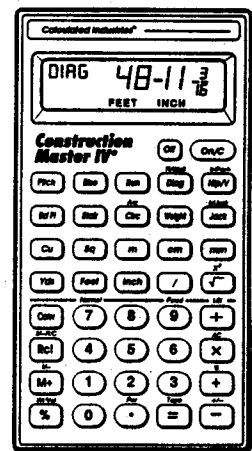
Make fast, accurate lumber estimates in board feet and dollars—for single boards, multiple pieces or the entire project. Wallet included.

Stock #CMIV [Calculator] List \$80 . . . \$66.95

Construction Master III Trig Plus

Most of the functions of CMIV plus full trig functions, including precise angles down to minutes and seconds. List \$100.

Stock #CMIITP [CMIII Trig Plus] . . . \$78.95



Scale Master II

Calculated Industries

digital plan measure for architects and engineers, construction pros and estimators

- built-in scales—50 feet-inch and 41 metric
 - 91 user-definable custom scales—perfect for scaling plans that have been reduced, enlarged or faxed
 - exclusive new Auto Count feature—automatically counts and totals any spacing-based items (studs, piers, outlets, etc.) while you roll
 - exclusive Length, Width and Area/Vol Keys—simplifies calculations
 - works in more dimensional units—select decimal feet, feet-inches, dec. inches, yards, miles, nautical miles, acres (sq. only), millimeters, meters, kilometers (including square and cubic formats)
 - exclusive METRIC mode switch
- Comes with User's Guide, lithium batteries, Auto Shut-Off, Case; 1-yr warranty.
- Stock #CISMII [Scale Master II] \$99.95

Zaurus™ Means Business. Anytime, Anywhere.

SHARP.

KEYBOARD enhanced PERSONAL DIGITAL ASSISTANT (K-PDA)

Touch Screen:

A new DFSTN LCD
320 × 240 dot display
(up to approximately
65 chars. by 20 lines).

Extra Tools:

On screen folders,
clocks, calculator,
help, and more.

1 MB Memory:

(750K user storage)

Fast 16 bit CPU:

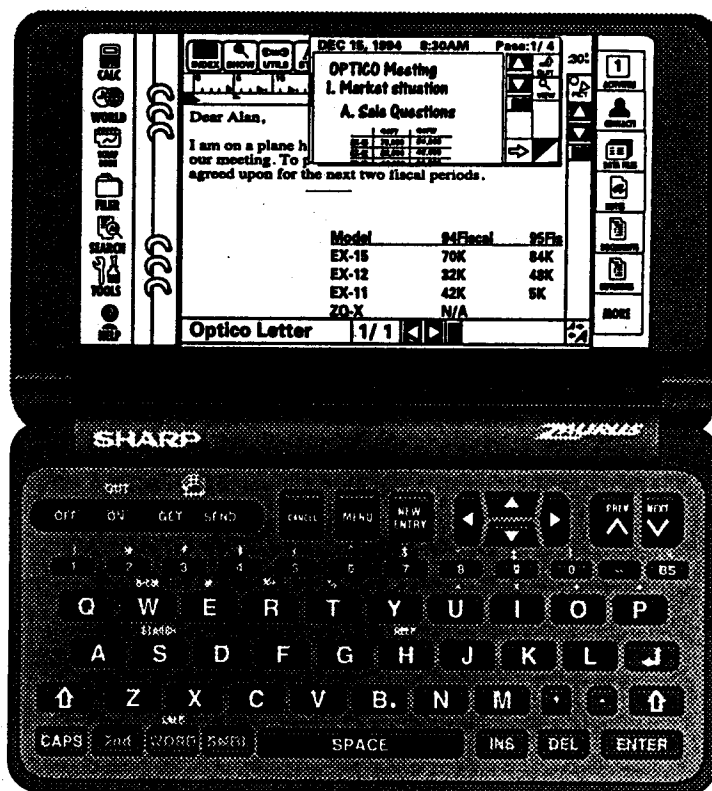
New CPU provides
instant access to your
information

CE-FM4 Fax/
Modem option:

Ultra-compact CE-FM4
9600 bps/2400bps
Fax/Modem option
attaches directly to
the side of the Zaurus.

Large Keyboard:

Large and wide
spaced keyboard
allows for easy
text entry


Productivity Software:

A complete suite of highly
integrated personal produc-
tivity applications. Includes
an ink note taker function, a
new Word Processor with
spell checker, graphics sup-
port, auto letter generator
& more. New linking feature
relates information to Con-
tacts or DataFiles.

Add-on software programs:

Now multiple programs can
be loaded to the internal
memory (like a hard drive).
Just touch an icon to launch
an add-on program

PCMCIA Type II Slot:

Industry standard PCMCIA
slot provides the ability to
add on I/O devices like
PCMCIA Fax/Modems,
Pager cards, FLASH
memory, and more. Even
share these peripherals with
a Notebook PC. Drivers for
many popular cards are built
into the Zaurus.

Serial Port (15 pin):

PC-Link, Fax/Modem
ASK (19,200 bps)

ZR-5000
Infrared beaming:

Connect to a PC, Macintosh®, PC Printer, or
even another Zaurus without wires/cables.

PC and Macintosh transfer utility software
included in purchase price (coupon included
in box; \$6.95 S&H required).

Built-in Messaging software:

Allows small work groups (in conjunction with optional Sharp PC
mail software) to exchange messages using a PC as an electronic
post office. Includes remoter access of messages and PC files.
Support for AT&T EasyLink™ and other public online services will
also be available.

*You'll have the best of both worlds — sure-touch keyboard
input to create professional-looking documents and messages,
plus pen input for quick, convenient notes.*

*You'll have multi-window applications so you view your notes
and use the word processor at the same time, to type reports fast
and easy.*

*Your letter generator will automatically format for you, insert
your client's header, even add your signature. Then you can Fax,
Print, Beam or Email it—even send reports from a plane via
'airphone'.*

*You get a full-function calendar with To-Dos and Alarms, 3
Contact Files and 3 Data Files (all linkable, all with graphic*

field capability).

Now finish all your business before you even get home!

Stock #ZR5000 [Zaurus] List \$750	\$499
Stock #ZR5000FX [Zaurus + Fax/Modem] List \$850	\$599
Stock #CEFM4 [9600/2400 Fax/Modem]	\$144.95
Stock #CEIR1 [Wireless Interface for Printer]	\$144.95
Stock #CEIR4 [IRDA Wireless Interface for PC]	\$144.95
Stock #CEBK1 [Battery Pack, Rechargeable] List \$150	\$129
Stock #EA23E [AC Adapter for Zaurus]	\$7.95
Stock #ZR5C01 [AT&T Mail Software]	\$69.95
Stock #EA11E [AC Adapter for CEIR1]	\$7.95

ZAURUS.

PDA's

Newton MessagePad 120

The Newton MessagePad 120 puts easy-to-use communications, productivity, and desktop connectivity solutions in the palm of your hand so you can work away from your office.

Yet you'll find it far more useful than paper or electronic organizers because while it has built-in **notepad**, **to-do list**, **datebook**, and **address file** for organizing personal and business affairs, with a modem it can also send **faxes** and gives you access to **e-mail** and **on-line services**.

The Newton MessagePad 120 can **receive pages** as well as electronic mail. And its built-in **infrared communications** allow you to instantly exchange information with other Newton devices.

It lets you share and exchange information with either Windows-based or Macintosh computers.

Pen-based navigation and data entry make finding information easy and fast. And it allows you to capture and organize information in many forms: notes, sketches, schedules, lists, and letters. It also lets you enter information in many ways: **digital ink**, **printed text**, **graphics**, **on-screen keyboard**, or a combination.

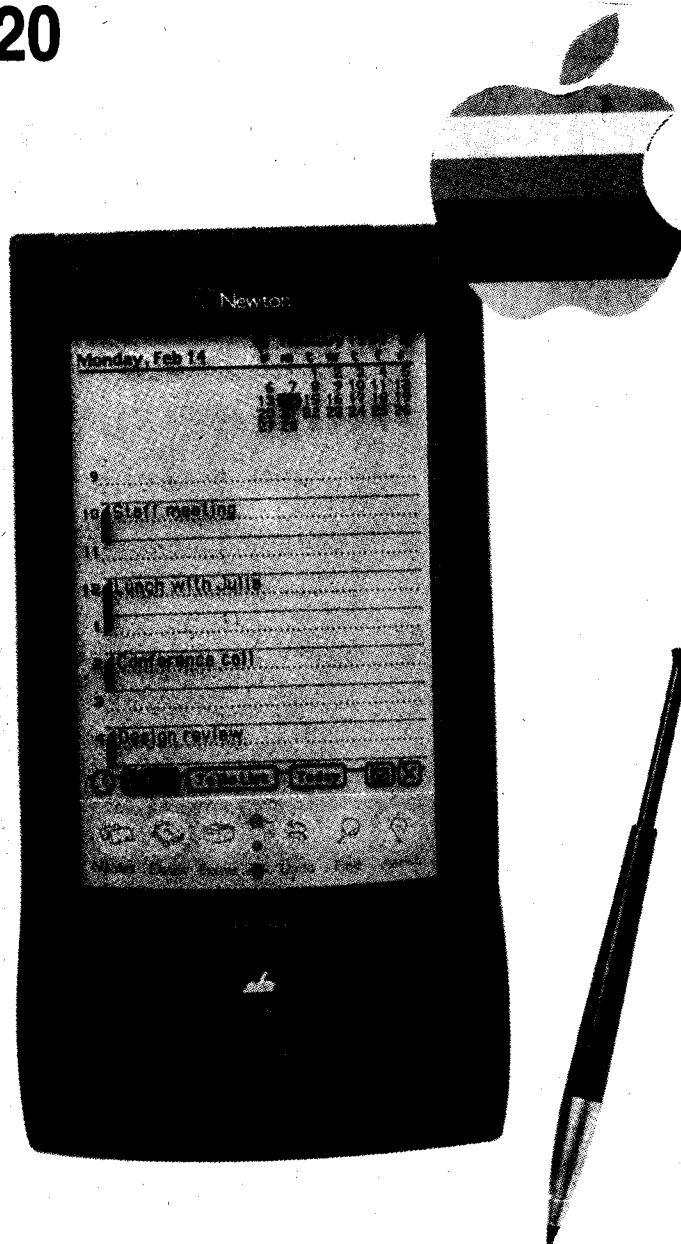
The Newton MessagePad 120 has **printing capabilities** that make it simple to print your information the way it appears on its crisp, easy-to-read screen, or as full-page formatted letters.

Its built-in **recognition software** can even transform your written handwriting into typed text letter by letter or word by word.

But best of all — unlike paper and electronic organizers — your Newton MessagePad 120 can be expanded with software titles as well as accessories and on-line services that can keep you organized, efficient, and very well informed.

Includes a 24/96 external send-fax/modem, Notion 1.1 software, is compatible with all 110 software, and has one Type II PC-card slot.

Stock #3344 [MP 120, 2MB] List \$850 \$749



Graffiti
At last—
handwriting recognition
that works!

*Brand
New*



First you'll learn the Graffiti writing system, taking **20 minutes or less**. Then an hour or so's use will see you achieve more than **30 words per minute—with 100% accuracy!**

This is the revolutionary new writing technology that you've read rave reviews about—and it will work in your PDA.

Includes the core recognition software that you download to your handheld device (requires desktop and linkage), and an online tutorial and help system. Requires 60 to 80K free space.

Stock #3348 (Graffiti for 100/110/120, PL-7000) \$69.95
Stock #3349 (Graffiti for Z-7000, Z-PDA, 2390) \$69.95
Stock #3350 (Graffiti for Magic Cap device) \$69.95

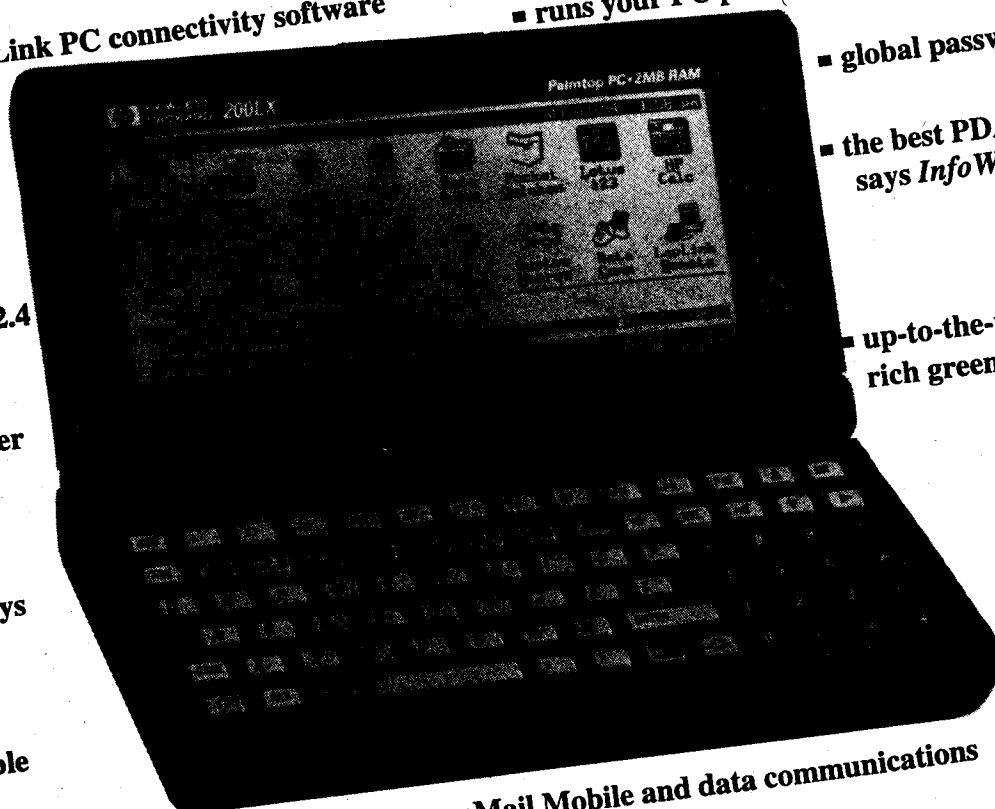
Read our mail from New Jersey—

It's nice to know that some companies still take the time to offer personalized service to their customers. Keep up the good work and once again thank you. Edward O'Connor, Rahway

Your favorite computer at any size
at any weight at any price!

HP 200LX Palmtop PC

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



Now with Pocket Quicken



**HEWLETT
PACKARD**

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



**HEWLETT
PACKARD**

HP 200LX

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 mo-

dem, 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 Database 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 file 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



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 1MB and the HP 200LX 2MB. 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)715-2004.

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, order Support Pack).

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

Stock #HP200LX1MB [P-top PC] \$499
Stock #HP200LX2MB [P-top PC] \$679
Stock #HS465A 3 yr [HP Support Pack] . . \$85

HP 1000CX HEWLETT PACKARD stripped for action— no built-in software!

If you want a palmtop DOS PC to run your own programs ONLY, here's your hot deal!

This special model has no PIM software, no Quicken, no Lotus 1-2-3, no cc: Mail Mobile. What it does have is MS-DOS 5.0, Laplink, 1MB RAM, and a low price—in fact the *lowest price*.

Stock #HP1000CX [Palmtop PC] . . . \$399

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 palmtop. Just return the nameplate included with your palmtop and order Stock #95CNP. You'll be limited to 24 characters and your imagination.

Stock #95CNP [Nameplate] Free

here's where you find...	
accessories	10
cables / interfaces	12
peripherals	14
software	17

TIP program

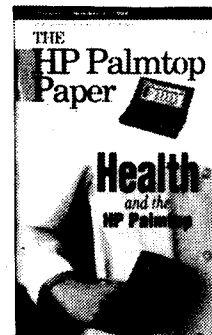
Save even more—

TRADE IN your used HP 100LX 1MB or 2MB. Just send it to us, insured, in good working order, with all its Manuals (normal wear acceptable). 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.

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—focussed right where you want it, on your HP 95/100/200.

BONUS Disk . . . each year's subscription comes with a copy of the Subscriber PowerDisk loaded with the best programs, games and utilities that can be found. Many subscribers say that the PowerDisk alone is worth far more than the cost of a subscription.

BONUS Issues . . . Best Palmtop Tips contains everything you could ever want to know about your Palmtop. Maximize your productivity with this collection of the most useful tips, tricks, shortcuts and hidden features.

PC Card Review is a special report with all of the information you need to make sense of the many types of PCMCIA cards becoming available: SRAM - Flash - Fax/Modem - Network - Wireless—and much more.

(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

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

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

FlashNews . . . US Navy now uses Flash Cards to simulation test their MARK 48 ADCAP torpedo—tape couldn't meet the specs for speed plus shock and vibration resistance.

\$99 up

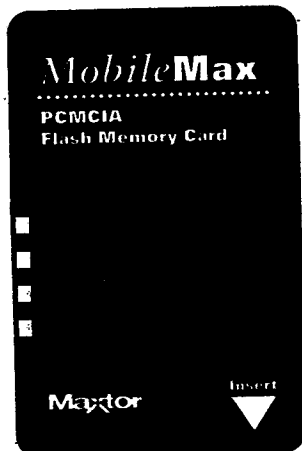
Better than a hard disk on a card—with flash memory chips and a built-in solid-state controller. It slides into the PCMCIA Type II slot of your instrument and is 100% MS-DOS compatible.

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.

All 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 #F1012A [5MB\10MB compr. FlashCard]	\$364
Stock #F1013A [10MB\20MB compr. FlashCard]	\$579
Stock #F1014A [20MB\40MB compr. FlashCard]	\$959

use Mobile Max logo



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 except #3242) 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 [1MB\2 MB Flash]	\$99
Stock #3236 [2MB\4 MB Flash]	\$129
Stock #3237 [4MB\8 MB Flash]	\$199
Stock #3238 [8MB\16 MB Flash]	\$339
Stock #3239 [12MB\24 MB Flash]	\$469
Stock #3240 [16MB\32 MB Flash]	\$609
Stock #3241 [20MB\40 MB Flash]	\$749

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]	\$289
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 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 (included) grips your computer; 8.25 x 5 x 1.75 inches outside.

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



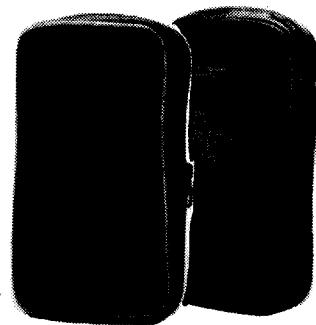
Carrying Cases for the HP Palmtop



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. Leather model is soft and elegant; has a belt loop. Nylon model is made of washable, waterproof fabric. Both are black.

Stock #2519 [Nylon Carry Case] List \$25	\$19.95
Stock #2520 [Leather Carry Case] List \$40	\$27.95



Plug-in RAM Cards

for Palmtop or OmniBook

- access data super fast
- 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 (Stackers 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.



HEWLETT
PACKARD

Stock #F1003A [512K RAM card] List \$300 \$49

Sale on

HP 512K card! get 2 of the best
at this price

MITSUBISHI

Stock #3078 [2 MB RAM Card] \$189

PreMax

Dual lithium batteries that beep you when they're low. 3 yr warranty.

Stock #2987 [512K PreMax RAM Card] \$99

Stock #2988 [1 MB PreMax RAM Card] \$139

Stock #2989 [2 MB PreMax RAM Card] \$229

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. 2-yr warranty.

Stock #2767 [512K Epson RAM Card] \$119

Stock #2768 [1MB Epson RAM Card] \$135

Stock #2769 [2MB Epson RAM Card] \$265

Chaplet

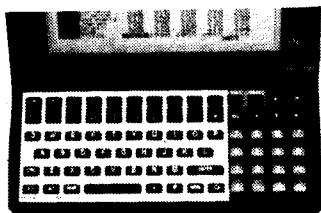
• Ego RAM cards are preformatted, preloaded with software utilities. 90 day warranty.

Stock #3007 [1MB Ego RAM card]. \$139

Stock #3008 [2MB Ego RAM card]. \$269

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

Rich Black Leather Case

EduCALC

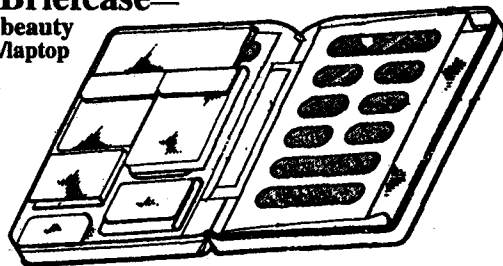
just-right size
for palmtop and
cellular phone

Hold your HP 200LX and phone steady—work with them right in this elegant case.

Has places for spare batteries, business cards, pen and pencil—plus pockets for PC cards and for papers. 8 x 5 x 2.5 inches and superportable.

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

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. 13 x 10.5 x 2".

Stock #2983 [Executive Leather Briefcase] \$119

Stock #2984 [Deluxe Accessory Kit] \$39

Black Leather PC-Card Case



Carry and keep your PCMCIA cards safe and happy in this handsome leather case.

Holds 4 Type I, 3 Type II or 1 Type III cards. Velcro patch on back sticks it right where you want it.

Stock #3273 (PC-Card Case) List \$16 \$9.95



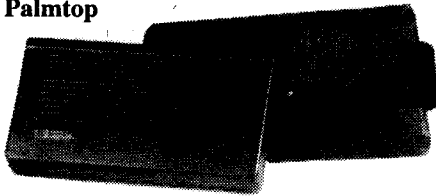
To find batteries and chargers
for your palmtop, see page 32

palmtops

accessories continued

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

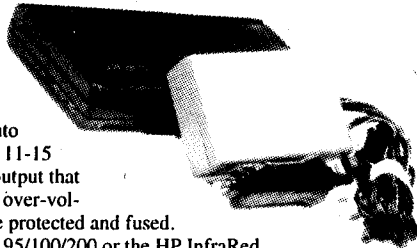
The Belt Holster for your HP 48 or HP Palmtop



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

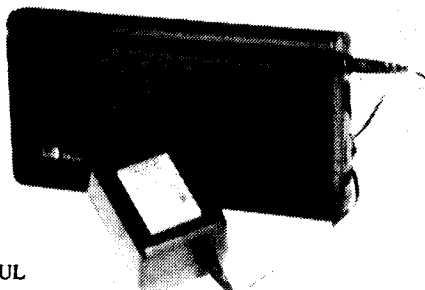
Cigarette-lighter Adapters for the HP 95/100/OmniBook and portable printers

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 for HP 100/200



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

AC Adapter for your HP Palmtop



Input 100-240 VAC (except 82241A); output 12VDC, 0.75A. Power for HP 95, HP 100, HP 200 or HP 82240B Printer. Recharges NiCds in your HP 100/200.

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
Stock #82241A [AC Adapter for HP 95 only] \$14.95

Nickel Cadmium Rechargeable

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. You'll get up to 1000 recharges on each set.

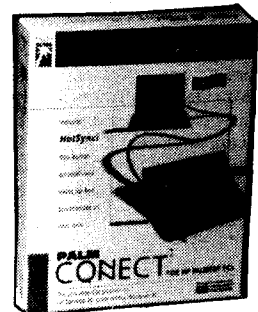
Stock #NAA [NiCd rechargeable 500 m AH, AA] \$2.89
Stock #2784 [Hi-capacity NiCd 850 m AH, AA, qty 2] \$6.95
Stock #2785 [Hi-capacity batteries (2) w recharger] \$24.95

cables / interfaces

How to hook up your HP 100/200

If you're running Windows, get PalmConnect (#3307). For DOS, 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.

PalmConnect backs up and synchronizes your HP 100/200 with a Windows PC



• Now—all your Windows data goes in your pocket—easy!

At last—it's user-friendly and it's for Windows.

Single-button back up, click-and-drag file transfer, 1-button access to PIM files. Supports several palmtop users with a single PC. Imports/exports CSV, TAB and DBF files. Puts latest version of any Lotus or Quicken file on both your Palmtop and your PC.

Requires 386 PC running Windows 3.1 (or better), 4MB RAM, 4MB on hard disk and a serial port. Comes on 3.5" disks with serial cable, 9-pin-to-25-pin adapter and User's Guide.

Trade-up Special—if you own an HP 100/200 Connectivity Pack for DOS you can trade up to PalmConnect without cable: order #3309 below and send proof of purchase with your order.

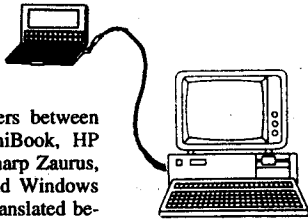
Stock #3307 (PalmConnect) \$125.95
Stock #3308 (PalmConnect, no cable) \$95.95
Stock #3309 (PalmConnect, trade up) \$46.95

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

Keep your PC and palmtop in sync!

HP 95/100/200

IntelliLink



IntelliLink for Windows transfers between the basic functions of the OmniBook, HP 95/100/200, Psion Series 3/3a, Sharp Zaurus, Casio Z-7000, Tandy Z-PDA, and Windows applications on the PC. Data is translated between formats and reconciled, allowing merging of new data with old. Schedule, Telephone, ToDo, and Memo are supported with the following PC applications:

ACT! for Windows 1.1	ECCO	Paradox 3.5/4.0/5.0
ASCII (CSV) file format	Excel 5.0	Sidekick 2.0
CalANdar 2.55	Lotus Organizer 1.x	Windows Cardfile/Calendar
Commence 2.x	Microsoft Schedule+	Word for Windows 6.0
dBASE III/IV	PackRat 4.1	

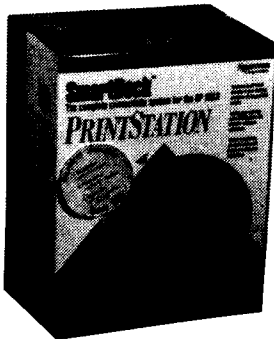
Requires serial interface cable and PC running Windows 3.1 or above.
Stock #2517A (IntelliLink 3.2, 3.5") List \$100 \$94.95

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.
- **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 9600 baud 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 \$100 \$89.95
Stock #2737 [Sta95 + Pod Pal (#2684) + Games (#2687)]* . . . \$89.95

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 for presentations and Games 95 for fun.
Stock #3004 [PrintStation95, #2684 & #2687] List \$280 \$139
Stock #3005 [ComStation95, #2684 & #2687] List \$510 \$229

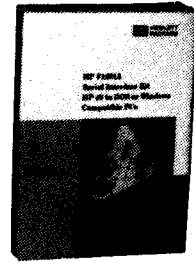
Station 100 is available with or without DataExchange software (DOS or Windows) included on 3.5" disk (same as for PrintStation100). Works with HP 100 or 200.

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

*While they last.

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, DOS 3.31 or higher/Windows 3.1 or higher, 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

The following are included in Stock #F1021B

Stock #F1021S [Connectivity Software only] \$64.95

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

Stock #F1023A [Serial Cable Adapter Kit] \$24.95

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.



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, 6'] . . \$16.95

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

Stock #2793 [HP 10 pin HP 100/200 to 9-pin Serial Cable] . \$22.95

Stock #2936 [HP 10 pin RJ 45 Cable, 9'] \$20.95

JetEye InfraRed to LaserJet Printer Interface

for the HP 100/200/OmniBook



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.



#ESI9510A is for the HP 100/200LX or the OmniBook.

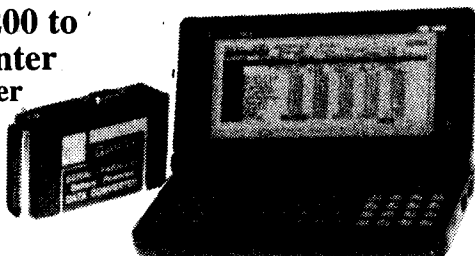
Supports LaserJet, DeskJet and any other parallel (Centronics) printer. Multi-page printing requires driver software (included) for your palmtop and optional Serial Interface on your PC to install it. InfraRed reception distance 8 inches. 2 yr warranty.

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

palmtops

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).

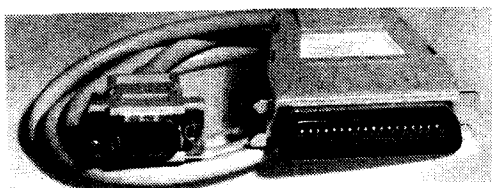
You connect this serial-to-parallel converter to any PC via a serial cable, and send its output to any parallel printer via a 'Centronics' 36-lead cable. Up to 250 hours on one 9v battery (not included).

Stock #GA935 [Serial/Parallel Converter] List \$100 \$79.95
Stock #9V [Alkaline Battery] \$2.80
Stock #F1015A [48/Palmtop to 9 pin Serial Cable] \$24.95

Serial to Parallel Converter

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

Aegis



Just plug in this tiny (3 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 #2816B [Parallel Converter 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
Stock #2793 [HP 10 pin HP 100/200 to 9- pin Serial Cable] . \$22.95

MacLinkPlus v.2.5 for the HP 95/100/200

DATAVIZ



Back up your palmtop to your Mac, automatically, with the click of a button (original directory structure is retained) — you need never worry again.

Transfer files between your HP 95/100/200 and any Mac Plus with 1 MB memory and System 7 or newer.

Translate files between popular word processors, spreadsheets, databases and PIM applications, including HP Phone and Appointment Books, ACT!, 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 \$119.95

Connectivity Products for HP 95



Stock #F1015A [48/Palmtop to 9 pin Serial, 6'] \$24.95
Stock #F1023A [Serial Cable Adapter Kit] \$24.95
Stock #F1016A [Mac/Apl to 95/100 Serial Cable only] . . \$24.95
Stock #F1001AS [HP 95 Connectivity Pack, Spanish] . . . \$79.95

cables / interfaces cont.

peripherals

PN60

portable 360 dpi
plain-paper printer with
color & battery options

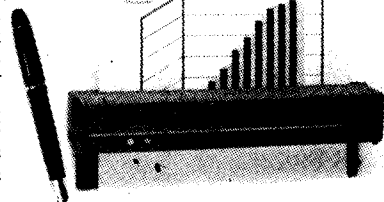


Small (10 x 2 x 1.85 inches) and light (1.1 lb, plus .4 lb optional battery). Prints 2 ppm on cut sheets, letterhead, even transparencies.

You'll get about 30 text pages on a black cartridge (included) or 3-5 pages with color (optional). Comes with parallel cable and also accepts RS-232C serial (cable optional). Accepts TrueType and other fonts, has 5 resident fonts; 64-100K bytes compressed buffer.

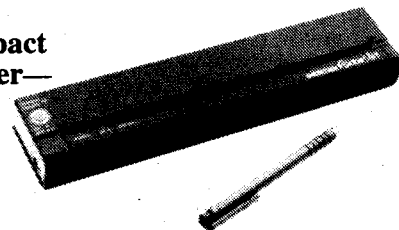
Comes with international power adapter, Windows driver, User Manual; 2-yr warranty.

Stock #PN60 [PN60 Printer] List \$399 \$374.95
Stock #3289 [Ni-Cad Battery] \$79
Stock #3290 [Car Adapter] \$44.95
Stock #3061 [Shier HP 100/200 Serial Cable] \$34.95
Stock #3292 [2 Black Cartridges] \$8.95
Stock #3293 [2 Color Cartridges] \$13.95



PocketJet
ultra-light, ultra compact
300 dpi thermal printer—
the world's smallest!

PENTAX TECHNOLOGIES



Up to 3 ppm on a nice flat thermal paper, yet it's only 2 lb with battery and adapter, a tiny 10.04 x 2.16 x 1.18 inches. Recharges in 70 minutes. LaserJet IIP (PCL4) emulation, with 7 HP internal fonts plus downloadable fonts.

Everything is included: parallel cable, AC adapter/ charger, battery, carrying case and 100 sheets of paper; DOS utility, User's Guide, & Quick Reference Card.

Stock #3294 [PocketJet] List \$499 \$469.95
Stock #3295 [100 sheets Thermal Paper] \$7.95
Stock #3062 [Shier HP 100/200 Serial Cable] \$29.95

LAN PC card—
PCMCIA Ethernet adapter
for 100/200

Silicom Connectivity Solutions



Now your palmtop can become a fully-functional node on the network—so you can direct-connect to download expense reports, exchange e-mail, synchronize schedules, . . .

True plug-n-play installation — then it uses NO palmtop memory space. PCMCIA rel. 2.1, type II; Ethernet IEEE 802.3, 16-bit transfer; 10 Base-T. Includes RJ-45 connector for UTP cable, support driver for HP 100/200LX.

Stock #3066 [LAN PC card] List \$219 \$169

Travel Floppy 144

take this 3.5" disk drive with you—
connects to any PCMCIA type II slot

Accurite

Small (4 × 6.3 × .85 inches) and light-weight (18.9 oz)—so you can up- and down-load large amounts of data on the road.

You can hot-swap the type II PC-card controller so you can move files without exiting the software in use—for quick, simple and economical backups and transfers.

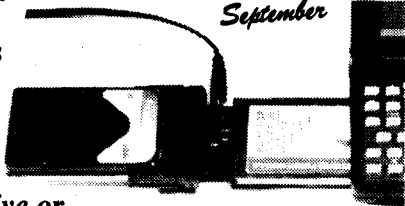
Controller card comes with its 18-inch cable—AC adapter included (required with HP 100/200); manual, software drivers and utility. Requires connectivity kit. Not for HP 95LX.

Stock #3051 [Travel Floppy 144] \$229



PC Card Adapter for type III+ device into type I & II slots

Greystone Peripherals



Available
September

Now—add a hard drive or a GPS to your HP 100/200

Converts Type I & II PCMCIA slots so you can use Type III+ cards. In systems where a Type III device would block your use of a second (Type I or II) card, this adapter keeps the second slot free.

It can enable the simultaneous use of a fax/modem with a hard-drive card. Developers can get access to a card in adapter for testing.

Stock #3314 [PC Card Adapter] \$99.95

Stock #3315 [AC Adapter] \$9.95

External Card-Link Drive (ok for HP 95/100/200/OmniBook)

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

4 × 1 × 6 inches, 1 lb, transfers data at 80 KB/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 (except Maxtor). Comes on 3.5" floppy to download (free exchange to 5.25" disk). Windows95 compatible

Stock #CL680 [SCT Card-Link] List \$190 \$164

External PC Card Drive

Databook

Read and write to cards at your PC! You merely plug this in to your printer port (DOS or Windows—except Windows 95, Enhanced or Standard port) and plug the printer back into this—for pass-through operation.

Handles PCMCIA RAM and Flash cards plus ATAs and ExCAs, Types I, II, III. Self-installing software has quick and easy user interface. Parallel cable included.

Stock #TMD650 [PC Card Drive] \$189



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.

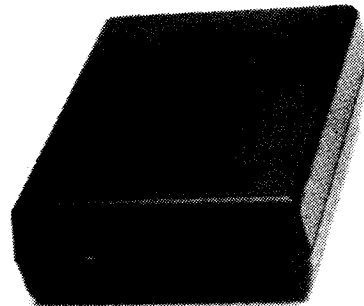
This drive makes it affordable to store data, simplifies program execution from 3.5" disks and facilitates basic file operations, such as copying, transferring, and formatting.

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" × 5.25" × 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/adapter; 90 day warranty.

Stock #2602 [Drive95 for HP 95 & 48] List \$360 \$323

Stock #3024 [Drive100/200] List \$360 \$323



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.

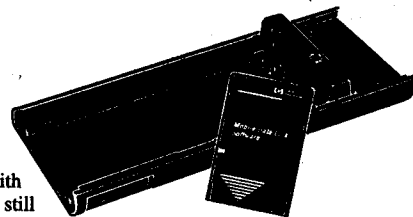
Mobile Data Link for HP 95



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 × 3.7 × 1.08 inches; software application card, nameplate and User's Guide included.

Stock #F1006A [95 Mobile Data Link, card] \$29.95



ThinFax Basic LX

send & receive faxes
from your HP 100/200



Plug & play software built into card. You can preview faxes on screen before sending or view received faxes. Fast 9600 bps send/4800 bps receive for faxes and up to 2400 bps for data. Lifetime warranty.

Stock #2985 [ThinFax Basic LX, card] List \$279 \$209



palmtops

peripherals continued

Swap Box internal PC card drives full PCMCIA compatibility for your desktop

SCM

Here's the bridge, between your PCMCIA-equipped palm-top 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).

2-in-1 drive #3304 gives you 2 PC-card drives in a single front drive bay, while all-purpose #3305 has one PC-card slot and one 3.5" floppy slot, both in one drive bay.

Stock #2977 [Swap Box Lite] List \$92	\$79.95
Stock #2978 [Swap Box Classic] List \$152	\$99.95
Stock #2979 [Swap Box Premium] List \$185	\$179.95
Stock #3304 [Swap Box Classic x 2] List \$129	\$119.95
Stock #3305 [Swap Box Classic Combo] List \$199	\$169.95

Fax/Modem & Memory PCMCIA Type II card professional communications for 100/200/OmniBook

Smart

Combines 14,400/9600 bps fax send/receive and 2400 bps modem with the memory—4 or 6MB—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 (lowest power consumption), and is COM 1 or COM 2 configurable.

The 4 or 6MB Flash memory can be used to store Fax, data or other files. 5 yr warranty.

Stock #3252 [Fax/Modem & Mem Card, 4 MB] List \$399	\$329
Stock #3054 [Fax/Modem & Mem Card, 6 MB] List \$449	\$389

FaxPort 14.4K bps fax/modem on a PC Card

Epson

Needs no extra cords, adapters or wires—you just press the top and a unique snap-out phone connector pops right up. Requires 1.7 MB of disk storage.

Works with any palmtop or notebook with a PCMCIA type II slot. Error correction, data compression. Toll-free tech support hotline; 2-yr warranty.

Stock #3286 [FaxPort, card] List \$239	\$199
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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 \$119	\$109.95
Stock #2777 [100/200 PalmModem] List \$119	\$109.95

ThinFax 144LXM Modem for HP 100/200

EXP

- 14.4K bps send/receive data/fax
- 2 or 4 MB built-in flash memory (optional)

Has the look and feel of the built-in HP 100/200 applications, and is HP System-Manager compliant—when you install this, the software loads an icon in your main menu, so you can choose that for execution.

Compatible with cc:Mail and Datacomm; automatically programmed to be COM2 by your HP 100/200. The faxes you receive can be stored in memory (optional) right on the card, so you get both functions in your one PCMCIA slot, memory and communications.

Error correction, data compression, auto-dial/answer.

Stock #3057 [ThinFax 144] List \$329	\$229
Stock #3058 [ThinFax 144, 2MB Flash] List \$379	\$299
Stock #3059 [ThinFax 144, 4MB Flash] List \$429	\$369

14400 FAX Pocket Modem

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

PRACTICAL PERIPHERALS.

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



StarLink wireless receiver card for 100/200/OmniBook



- News and Sports
- Stocks and Company Reports
- Messages from anyone with a telephone, anytime, anywhere
- e-mail 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

You can connect to those weird foreign phone jacks—easy!

AR Industries

Brand New



Take along one of these International Telephone Adapter Plug Kits. Each Kit has the appropriate plugs for its region, plus 2 modular inline couplers (one regular and one special) and a carrying case.

Euro Kit has plugs for the UK, Belgium, the Netherlands (Holland), Italy, France, and 2 for Germany. The UK and French plugs also work in many colonies and ex-colonies.

Scandinavia Kit has plugs for Sweden, Finland/Norway and Denmark.

Eastern Euro Kit has plugs for Hungary and Poland/Russia.

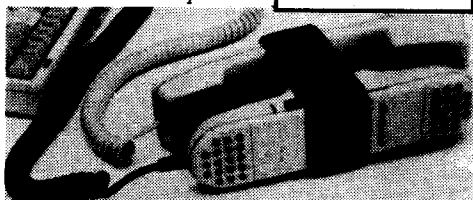
Australia Kit has Australian plug which also works in many So. Pacific islands.

Far East Kit has UK, Japanese, and Australian plugs, US RJ-11 Doubler, and US Old 4-pin.

Stock #3099 [Euro Kit]	\$69.95
Stock #3100 [Scandinavia Kit]	\$34.95
Stock #3345 [Eastern Euro Kit]	\$29.95
Stock #3346 [Australia Kit]	\$24.95
Stock #3347 [Far East Kit]	\$49.95

Telecoupler II for HP 95/100/ 200/OmniBook

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



AR Industries

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

software

acCIS CompuServe Automation Program for 95/100/200

- 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") List \$79 \$69.95



GAMEcard volume 1 for HP 95/100/200



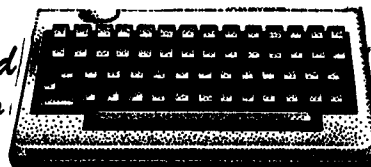
Plug a lot of fun into your HP Palmtop—here are 14 games on a single ROM card: Unscramble, Checkers, Meko, Qubic, Klondike, Mines, Solitaire, Tetris, Blackjack, Craps, Adventure, Reversi, Go and Poker.

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

QUICK/LX typing aid for 100/200

Shier Systems
& Software

*Brand
New*



I'm a slow typist, and I'm impatient, so I was really delighted with this new software. It reduces typing time by suggesting the rest of a word you have partially typed.

For example, when you type sop, QUICK/LX displays histicated in a small window right next to the text you entered. If you press the right arrow key, you tell it to accept the word sophisticated for you. Or you can ignore it.

It really has reduced my keystrokes—plus it corrects my spelling.

Stock #3355 (QUICK/LX) \$39.95

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

Experience
in Software

- 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



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: 09/05/91 10:00a order new cata
To-do: 09/05/91 10:00a order new cata
Screen 1 of 11 08/27/92 11:56

- 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
C
Meeting: 09/05/91 10:00a order new cata
To-do: 09/05/91 10:00a order new cata
Screen 1 of 11 08/27/92 2:48

September 91
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
29 30
062

- Address list
- Tasklist for all activities
- Contact report
- Phone List
- Future Activity 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

DATE	DESCRIPTION	LOCATION
Thursday Sep 5	Express Office	4:00p Kell
Friday Sep 6	National Pap	Make travel
Saturday Sep 7	Corporate Im	8:00a Huff
Sunday Sep 8	Superior Dis	2:00p Lena
Monday Sep 9	Paper Moon	8:00a Step
Tuesday Sep 10	OK Office Su	2:00p Nels
Wednesday Sep 11	Jordan Office	9:30a Will
Thursday Sep 12	Thomas Huff	3:00a Thom

08/27/92 11:56

- 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 256K free system RAM in your HP Palmtop.
Stock #3031 (Act! for HP Palmtops v 1.1, 3.5") List \$129 . . . \$99.95
Stock #F1015A [48/Palmtop to 9 pin Ser Cable, 6'] 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 or Act! for Windows v 2.0 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

System 95 Surveying Software for HP 95/100/200



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. Call for cable prices.

Stock #2716A (System 95 v 2.2, card) List \$695 . . . \$499
Stock #2717 (TDS Tripod Bracket) List \$95 . . . \$74.95

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



Based on *The American Heritage Dictionary* and *Rogert'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 those 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



software continued

The fastest, easiest way to organize your finances, *wherever you go*

Pocket Quicken
for the HP 100LX

Intuit



Track your finances easily on-the-go

Pocket Quicken is especially designed for HP Palmtops to work the way you work. Instantly and effortlessly update your checking, savings, credit card, even cash accounts using a traditional checkbook register format. Just enter transactions whenever you have a spare moment to keep your finances organized and up-to-date.

Organize all your finances

With Pocket Quicken, you can track and categorize all your finances, including checking, savings, credit cards and cash. And, with Pocket Quicken's easy reporting, you'll always know where your money goes.

Track your business travel expenses

Pocket Quicken even makes it easy to track business-travel expenses. You can categorize transactions by trip, project or client. At the end of a trip, you can easily access all the information necessary for an expense report.

Easy access to your financial information

With Pocket Quicken's easy reporting, you can quickly check your account balances and registers. Instantly pull up category reports and business expenses. So it's easy to get all the information you need to make the right financial decisions on the spot.

Keep your financial data synchronized with desktop Quicken

Because it's from the makers of the #1 desktop financial software, only Pocket Quicken completely synchronizes with desktop versions of Quicken. Up-and-down-loading financial data is easy with the latest HP connectivity pack.

System Requirements:

TO INSTALL Pocket Quicken in the HP 100LX: requires HP Connectivity Pack (100LX or 200LX version). To TRANSFER data between Pocket Quicken and desktop Quicken: requires HP Connectivity Pack for the 200LX (version F1021B includes Quicken connectivity), Quicken for DOS 3.0 or higher or Quicken for Windows 2.0 or higher. 640K DOS RAM and at least 450K of free conventional DOS memory (required by HP Connectivity Pack).

Stock #3274 (100 Pocket Quicken) \$69

Read our mail from D.C. —

EduCALC ranks as by far the finest source of hand-helds and accessories in the US and possibly anywhere.

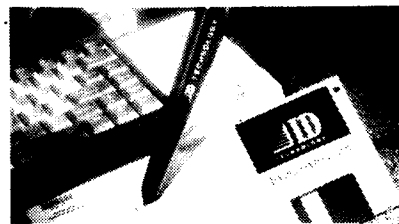
I currently own a 71B, three HP 41s (all of which run at 2x speed), an HP110, HP110+, an HP32E, an HP48GX, and most of the accessories for the above.

I am certain that the fine people at EduCALC will continue their strong support of HP Handhelds through Hewlett-Packard and third party vendors. As long as we have EduCALC, my machines will never be obsolete.

Keep up the good work. John Kercheval, III, Washington

palmtops

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



- 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. Requires connectivity kit for HP 100/200.

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

Entry Coupon—

Free Calculator Drawing

Fill out and return this coupon to EduCALC before
November 15, 1995, to enter (no purchase necessary).

1. Which computer(s) do you own/use? Check all that apply.

- | | |
|--|--|
| <input type="checkbox"/> Desktop at home | <input type="checkbox"/> Desktop at work |
| <input type="checkbox"/> OmniBook | <input type="checkbox"/> Laptop |
| <input type="checkbox"/> Palmtop | |

2. Do you own/use an HP palmtop-handheld? ☐ No. If "yes", which TWO features do you use most frequently?

- | | | |
|---------------------------------------|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> Appointments | <input type="checkbox"/> Phone book | <input type="checkbox"/> Note taker |
| <input type="checkbox"/> Memo | <input type="checkbox"/> Database | <input type="checkbox"/> P Quicken |
| <input type="checkbox"/> Lotus 1-2-3 | <input type="checkbox"/> HP Calc | <input type="checkbox"/> cc:Mail |
| <input type="checkbox"/> DOS | <input type="checkbox"/> Filer | <input type="checkbox"/> Games |
| <input type="checkbox"/> Modem | <input type="checkbox"/> Fax | <input type="checkbox"/> Memory card |

☐ Other _____

3. Which EduCALC services/programs have you used?

- | | |
|---|---|
| <input type="checkbox"/> 30 Day Return | <input type="checkbox"/> Goodies Disks |
| <input type="checkbox"/> free Technical Notes | <input type="checkbox"/> Technical Support |
| <input type="checkbox"/> EduCALC Newslines | <input type="checkbox"/> Overnight Shipping |
| <input type="checkbox"/> 800 Order Line | <input type="checkbox"/> Trade-in Program |
| <input type="checkbox"/> 24 Hour Ordering | <input type="checkbox"/> Older Machine Supplies |
| <input type="checkbox"/> Parking Lot Sale | <input type="checkbox"/> Manufacturer Phone #'s
(Save These Numbers) |

I want a free:

- ☐ HP 38G ☐ TI-80 ☐ HP 71B ☐ HP 14B ☐ HP 32SII ☐ HP 48S

Send it to me, _____

(street) _____

(city, state, zip) _____

(I agree to having my name announced if I win)

**Regina McDaniel, Shreveport, Louisiana, won an HP 17BII
in our last drawing. Enter now—it may be you this time!**

Sale —digital card dieting for only \$59.95

We acquired a limited number of these at a fantastic savings for you! Order now while they last.

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

Medical Software for your HP 95/100/200

Sale!

COMPUTERBOOKS



■ **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. Requires 256K RAM and 3.7 MB disk storage.

■ **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.

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

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

Medical Databases

for your HP 100/200 or OmniBook

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.

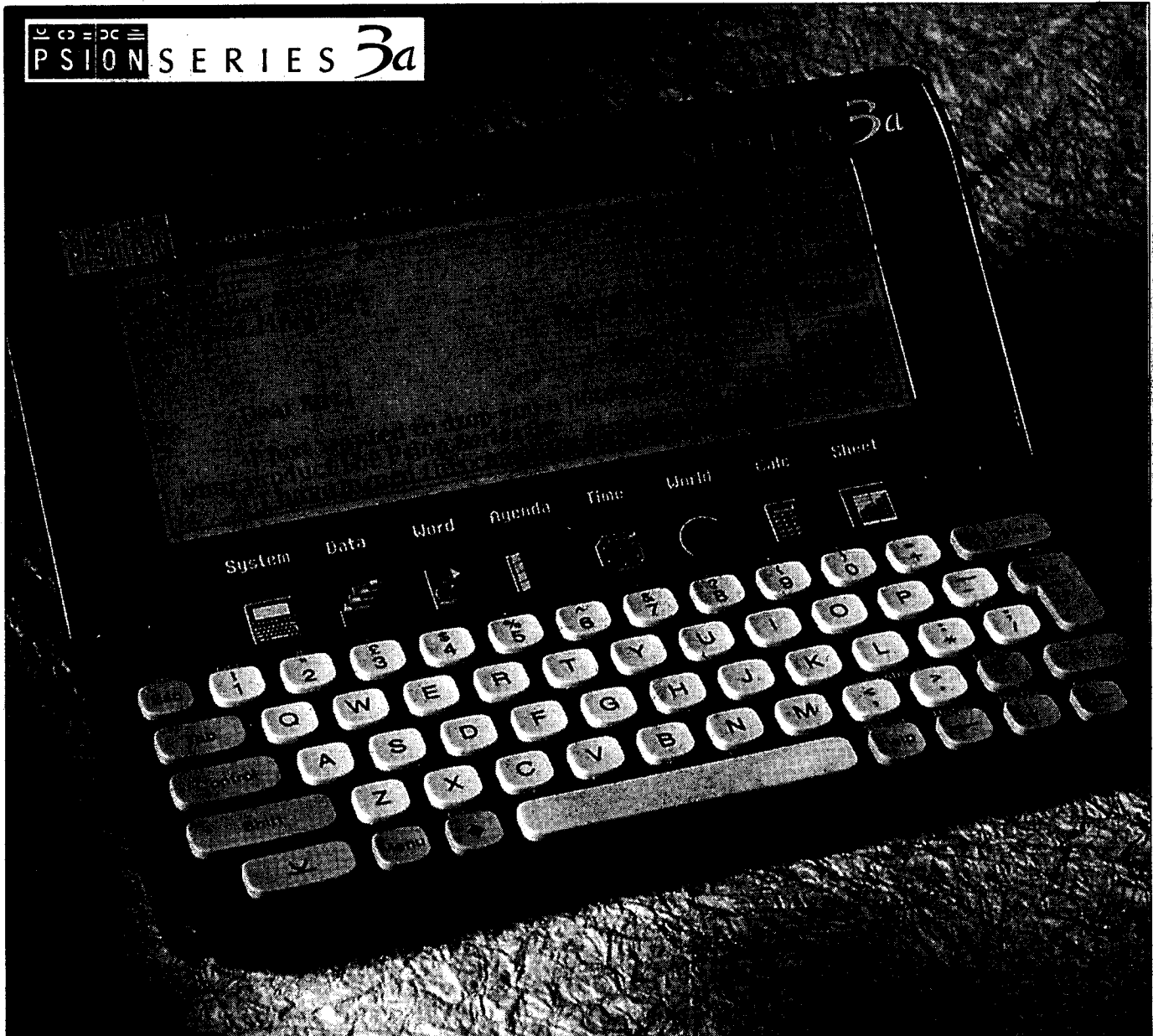
Stock #3206 (Orthopedics Database, 3.5") \$69
 Stock #3207 (Pediatrics Database, 3.5") \$69
 Stock #3208 (Toxicology Database, 3.5") \$69
 Stock #3209 (Trauma Database, 3.5") \$69

Read our mail from California—

"I am very impressed with your response time, and your prices have been consistently lower than other places. I am surely going to continue doing business with you, and I have passed your catalogs on to my colleagues with my highest recommendation. Thanks for everything."

Tom Marazita, Mucilid Enterprises, Goleta

Psion 3a



• award winning

• top ranked

• best selling

The world's favorite palmtop—for word-processing and for programming.

Big 80 character by 17 line, full-page screen has sharp CGA graphics and a Windows-like interface. Built-in Solitaire game.

Easy-to-type QWERTY keyboard, yet it weights only 11 oz and folds to pop into your pocket, 6 x 2 1/2 x 3/4 inches. Two AA batteries last months.

A single key switches you between functions:

- word processor—fonts, styles, password
- spread sheet—shows entire 12 months at once, 1-2-3 compatible
- programming language—like BASIC, with compiler
- personal info management—addresses, calendar and To-Do with alarms
- database—fully customizable and extendible
- scientific calculator
- auto dialer
- world time

Built-in microphone and digital audio system so you can record reminders. Speaker doubles to auto-dial tones with any phone. Two proprietary card-slots for software or memory; 1-yr warranty.

Stock #3310 [Psion 3a 1 MB] List \$595 \$494
Stock #3311 [Psion 3a 2 MB] List \$695 \$589

Stock #2626 [128K Flash, card] List \$65 \$54.95
Stock #2629 [1MB Flash, card] List \$195 \$149.95
Stock #3079 [2MB Flash, card] List \$295 \$224.95
Stock #3098 [Psi Win Link + Cable] List \$120 \$89.95
Stock #3077 [Mac Serial Link + Cable] List \$120 \$89.95
Stock #2967 [Parallel/Printer Link] \$24.95
Stock #3093 [3FAX (out)/Modem (in, out)] List \$295 \$224.95
Stock #3086 [Money/Finance pgrm, card] List \$120 \$99.95
Stock #2970 [Spell Checker/Thesaurus, card] List \$100 \$79.95
Stock #3089 [Games 3a, card] List \$ \$79.95
Stock #3313 [AC Adapter] \$19.
Stock #3368 [Vinyl Case] \$20
Stock #2763 [Deluxe Leather Organizer] List \$90 \$57.95

In a hurry? Use our UPS 2ND DAY AIR

PTV - 30

Super palmtop PC with built-in Microsoft WORKS

*at the right
price!*

**INSTANT
TECH**



Here's the mid-size machine you've been looking for—big enough to type on (a superpalmtop) and small enough to carry like a book (a subnotebook).

Big yet small? It's 4.5 H x 9.25 W x 1.25 inches Thick—51.6 in³. It weighs 1.3 lb, including its 2 AA batteries (power enough for 25 hrs). There is also an AC adapter jack.

Is it typeable? About a half-hour with this 82-key QWERTY keyboard and you can expect to be touch typing at maybe three-quarters speed.

Can you read it? You bet—this black-and-white LCD is CGA-compatible with 640 x 200 pixel resolution. You'll see all your work in standard 80 columns x 25 rows. Contrast adjusts to fit any lighting.

What about power? You'll have a V30HL CPU running at a fast 7 MHz. The 1 MB ROM holds MS-DOS 5.0 (as well as WORKS 3.01), so you appreciate the instant-ON, no-boot way that it wakes up right where you left off. There's 1 MB of RAM and it's all available to you since the BIOS and WORKS software is in the ROM.

How does it communicate? Easy. It has 1 parallel and 1 serial port, built in with standard connectors, so you can up and download or print with standard cables. There's built-in communications software (in WORKS) so you can exchange files with other computers, send/receive e-mail, share programs, check on news and sports events or stock prices, shop electronically,

and so on.

Does it have PCMCIA slots? Yes, two—PCMCIA 2.0 Type II, so you can add ROM programs, RAM or Flash memory, modems, whatever. It will modify or grow with your needs.

What exactly is WORKS? This is Microsoft's wonderful all-in-one office program—the 4 most-used applications, a Word Processor, Spreadsheet, Database and Communications applications. These 4 programs are designed for you to use them together—to a degree no separate programs could be. They are supported by several utilities including an Alarm Clock, Calculator, File Manager, automatic Phone Dialer and an extensive Help database. WORKS is preinstalled in ROM so it can never be accidentally erased, and so it uses no RAM to operate.

Any bells and whistles? Sure, there's a text-to-speech utility (included on disk) that will startle you. Just type in a sentence and touch the SPK key—your computer's voice will pronounce what you've written through the built-in speaker! I was amazed at just how good this electronic speech is, too. Plus, there's even an earphone jack.

Comes with complete User's Manual and 3.5" disk of downloading software. 90-day warranty. **And the price is right.** Stock #PTV30 [Superpalmtop] \$429

Check our preceding Palmtop section for cases, PC cards, cables, peripherals, the PN 60 printer (palmtop section) and software for the PTV30.

HP OmniBook

More powerful 486/50 and 486/75 processors

**Lightest
desktop-
to-go**

**comes with both—
Windows 3.11 and
Windows 95—
you choose**

**Now —
Color Display**

**Easy-to-use
pop-up mouse**

**Larger
hard-disk drives**

New

**More
PCMCIA
slots**



HP OmniBook 600C Superportable PC

Lightest and Smallest full-function PC—only 3.8 lbs with battery, only 127 cubic inches, so it's the most convenient sub-notebook 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 up to 3.5 or 4 hours.

Full-function? You bet—Intel 486 at 50 or 75 MHz power with DOS and WINDOWS preloaded, 4 MB RAM in the 50 MHz models and 8 MB RAM in 75 MHz models, 170- or 260-MB Hard Disk Drive (over 270 or 400 MB with data compression), plus two PCMCIA type II (or one type III) slots.

The newest OmniBook 600, the 600CT, has a larger, brilliant 9.5 inch thin-film transistor (TFT)

display (active matrix), complementing the 8.5 inch DSTN (passive matrix) display in the 600C. The 600CT also sports one of those new lithium-ion batteries (40% greater life), built-in Windows-compatible stereo sound, and greater RAM expandability—up to 32MB.

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—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 an

other 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. For example, the 600C has the newest technology, a 1.8" hard disk drive that can take up to a 1000 g non-operating shock (compared to a typical competitor's 100 g)—the rugged durability you want in a portable PC.

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. Then there's a further 2 year warranty under which you return it to HP. To extend your Express Exchange warranty to 3 years, order the Support Pack.

HP OmniBook

the first Post-Dock Portable

If you ever need another desk computer, at home or at the office, just use your OmniBook 600C—it comes with an SVGA-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 256 color, 1024 x 768 resolution.

The idea is that, with 486/50 or 75 power and a full-sized keyboard, all your OmniBook 600C 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 600C 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 for the 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 600C.

You can use the enhanced Port Replicator to collect all your I/O into one super-quick connection.

Does this start your imagination working?

Technical Specifications

Size Closed

- 18.49 x 28.24 x 3.99 cm
(7.28 x 11.12 x 1.57 in)

Weight

- 1.72 kg (3.8 lb)
- Traveling weight (including adapter, power cable) 2.10 kg (4.64 lb)

Processors

- 50-MHz Intel 486 DX2
- 75-MHz Intel 486 DX4

Display

- Display: 640 x 480 backlit color VGA
- 8.5-inch diagonal DSTN (9.5 inch TFT for the CT)
- SVGA-out supports VGA and SVGA monitors (up to 1024 x 768 x 256 colors)
- Accelerated local bus video with 1-MB VRAM

Power

- 9.6 Vdc rechargeable NiMH batt (Lilon battery for the CT)
- Batt pack recharges to high level in less than 2 hours using AC Adapter
- 2-minute low-battery warning
- Battery life up to 3.5 - 4.0 hours
- AC adapter 100 to 240 Vac (50 to 60 Hz) input; 12 Vdc, 2.5 A output
- Instant-on maintains computer in ready-to-work state for months on a charge. Turn it on again, and you are instantly back where you were.

Operating Environment

- Operating temperature 0 to 40° C (32 to 104° F)
- Storage temperature with data retention: 0 to 55° (32 to 131° F)
- Operating and storage humidity: 90% relative humidity at 40° C (104° F) maximum

Mass Storage

- 170- or 260-MB hard disk drive (over 270 or 400 MB with data compression)

RAM

- 4- and 8-MB RAM models (expandable to 12 or 16 MB with optional RAM expansion cards, CT expandable to 32 MB)

Keyboard and Mouse

- 85 keys ■ 12 [Fn] keys
- Touch-type keyboard, industry-standard full-sized key spacing
- Embedded numeric keypad
- Built-in pop-up mouse

Security

- Kensington lock slot

Input/Output

- 25-pin bidirectional parallel port
- 9-pin, 115,000-baud, RS-232 port
- SVGA-out (up to 1024 x 768 x 256)
- 115,200 baud, bidirectional infrared
- Expansion bus connector
- Floppy drive port

Expandability

- One Type III PCMCIA slot (or use as two Type II slots)
- External floppy disk drive (incl)
- Enhanced port replicator with parallel, serial, SVGA-out (up to 1024 x 768), keyboard, PS/2 or Microsoft mouse, and SCSI ports; external floppy connector, HP Ethertwist LAN card slot

Pre-installed Software

- Microsoft® Windows™ for Workgroups 3.11 AND Windows 95—both installed, so you can choose
- MS-DOS® 6.2 (includes "Plug and Play" BIOS)
- Laplink Remote Access™
- Easy connection to your desktop PC, network and desktop printers. Works via cable or infrared.
- Appointment Book
- Wake-up feature reminds you of appointments even if the HP OmniBook 600PC is off
- HP Financial Calculator
- Arithmetic, time value of money, amortization, business percentages, and unit/currency conversions
- Phone Book

HP OmniBook 600C Superportable PC

What is the Enhanced Port Replicator?

Answer. Your quick and convenient method for connecting to standard desktop devices: display, keyboard, mouse, etc.; ready for Windows 95.

It passes through all the Omnibook 600 ports (except IR): SVGA display, 3.5" floppy drive, EPP parallel, 16550 UART serial, and AC power.

It adds an external keyboard port, PS/2 mouse port and SCSI-2—plus an HP Ethertwist slot for networking via 2 optional LAN cards (10BASE T and 100VG).

Security is provided through the Kensington lock and user-selected password.

Stock #F1065A [600C, 50 MHz, 170 MB]	2149	\$2399
Stock #F1110A [600C, 50 MHz, 260 MB]	2199	\$2699
Stock #F1066A [600C, 75 MHz, 170 MB]	2499	\$2899
Stock #F1111A [600C, 75 MHz, 260 MB]	2699	\$3299
Stock #F1114A [600CT, 75MHz, 260 MB, TFT]	3149	\$3799
Stock #F1044B [600 Series extra AC Adapter]		\$94
Stock #F1058A [NiMH Battery Pack module]		\$94
Stock #F1121A [Lilon Battery for C or CT]		\$129
Stock #F1064A [Automobile Adapter]		\$94
Stock #F1054A [4-MB RAM Expansion Card]		\$314
Stock #F1055B [8-MB RAM Expansion Card for C & CT]		\$559
Stock #F1123A [16-MB RAM Expansion Card for CT]		\$1099
Stock #F1124A [32-MB RAM Expansion Card for CT]		\$1649
Stock #F1071A [Port Replicator]		\$329
Stock #F1049A [extra OmniBook mouse]		\$45
Stock #F1059B [extra 3.5" external floppy drive]		\$186
Stock #F1068A [extra 170MB Hard Drive]		\$529
Stock #F1069A [extra 260MB Hard Drive]		\$579
Stock #H5470A [600C/CT Support Pack]		\$135
Stock #3035 [4-MB RAM, Simple Tech for 530/600]		\$249
Stock #3049 [4-MB RAM, Simple Tech for 300/425/430]		\$249
Stock #3050 [8-MB RAM, Simple Tech for 530/600]		\$479

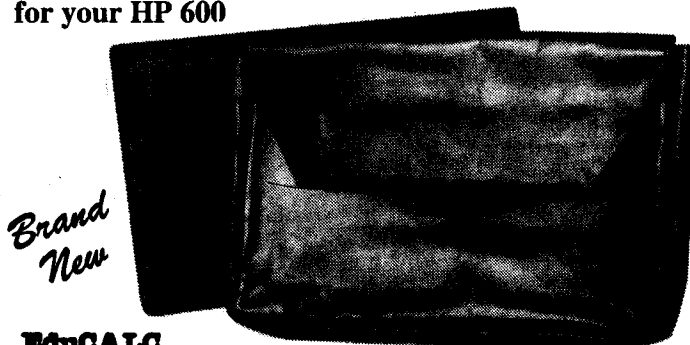
"OmniBook 600C: Portable color that won't weight you down"—PC World, Feb '95

"HP's new OmniBook 600 has matured into a feature-rich featherweight"—PC Computing, Jan '95

Need one of these for your OmniBook?

Flash and RAM Cards	see page 10, 11
Cigarette Lighter Adapter	12
JetEye Printer Interface	13
External Card-Link Drive	15
FAX & Data Modems	15, 16

Rich Leather Carry Case for your HP 600



EduCALC

hi-touch safety for your hi-tech investment

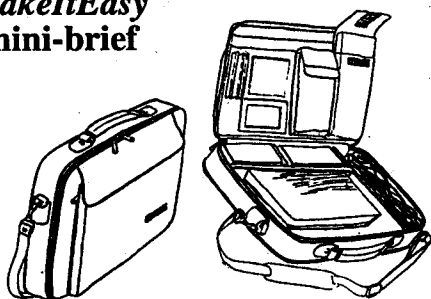
Slim, trim and impressive, yet this formfit beauty protects your 600 from all those inevitable spills, scratches, knocks and drops. Four pockets inside for PC cards or business cards, velcro closure. Handsome black.

Stock #3317 [Leather 600 Case]	\$29.95
Stock #3318 [Nylon 600 Case]	\$18.95

HP OmniBook

the leather *TakeItEasy* OmniBook mini-brief

ISIS



- 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! Approximately 10 x 15 x 2".

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

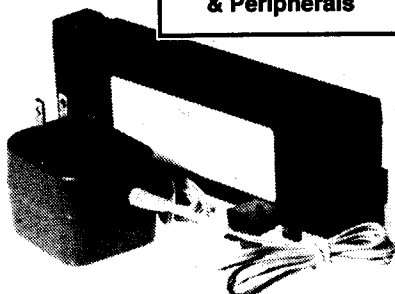
External Power Pack for OmniBook and DeskJet Portables

Palmtops, Utilities & Peripherals

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

You'll have on-the-go back-up 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 x 1 x 2.5 inches.

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



Hard Disk Card 170 & 260MB for Type III slot

Epson

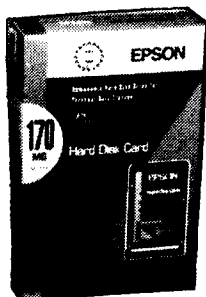
Upgrade your data storage capacity—it's easy with this affordable, state-of-the-art PCMCIA 2.1 Type III card.

If the whopping 260MB 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 Stacker company—then you'll own a 520MB 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
Stock #3052 [260MB Hard Disk, card] List \$699 \$559



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

Maxtor

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.

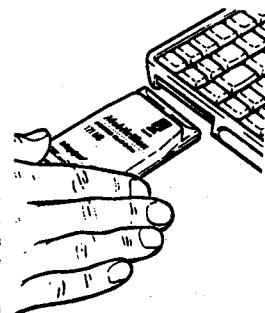
It's all instantly ready to use, in your own computer or one you have never seen before—notebook, subnotebook, handheld or desktop—Pen-based, DOS or Windows—all it requires is a PCMCIA type III slot.

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 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] \$299



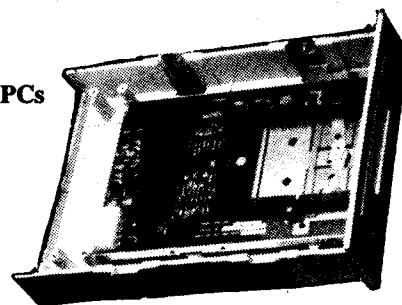
Desk Runner single internal PCMCIA type III card socket for desktop PCs

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] \$89



P35B Floppy Drive for OmniBook 300/425/430

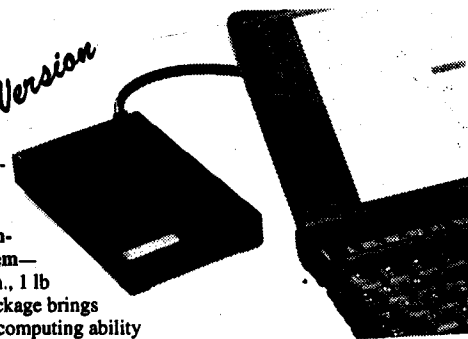
PacRim

New Version

Transform your OmniBook into a complete computing system—this 3.5", 7.4 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).

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 #3063 [P35B Floppy Drive] \$169.95



HP OmniBook

Fax & Voice modem

Smart

- 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 \$239 \$169



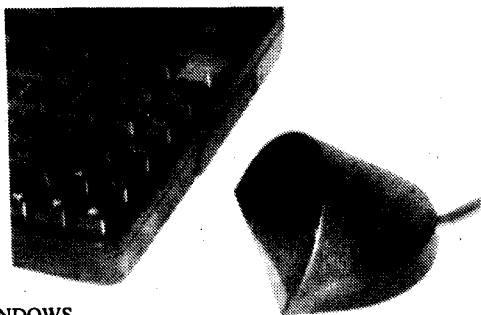
JetEye wireless data transfer to any PC from OmniBook

Extended Systems

With JetEye you can transfer data at 115,200 baud between your OmniBook 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.

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



Ethernet PC-Card for Omnibook

PreMax

Now you can connect your notebook or palmtop to your network—just plug it in to Novell Netware, IBM's LAN Server, Banyan's VINES or MS Windows for Workgroups.

PCMCIA Type II (Rel. 2.1) card with RJ-45 connector for unshielded twisted pair (UTP) wiring and with BNC connector for coaxial wiring. NE 2000 compatible.

Software drivers included (3.5") for easy installation, and intelligent 'enabler' recognizes any previously-installed card-services software, so it's highly compatible. Manual; 3 yr warranty.

Stock #3277 [Ethernet Card] List \$189 \$139



Cellular Fax Modem makes your car a mobile heaven

EPSON

Imagine—a fax/modem/data card with a direct-connect cable to any Motorola data-ready cellular phone.

Get truly connected while you're on the road—use with any laptop with a PCMCIA Type II slot. Data transfers fast—14,400 bps—and error free with T-30 error correction built-in. Large files go via V:32 bis/42 bis at 57,600 bps, rapid yet accurate.

Comes complete with software (including QuickLink Mobile for Windows) and cable for land line and for Motorola Cellular; 2-yr warranty.

Stock #3053 (Cellular Fax/Modem) List \$299 \$279

Brand New



LAN Card PCMCIA Ethernet Adapter

EPSON

New

Plug your notebook into the network—Netware, LAN Manager, LAN Server, Vines, DEC Pathworks, or PC/TPC.

Fits Type II or III slots, supports both programmed I/O or shared memory, comes with DOS ODI and NDIS drives and 10Base-T connector. Toll-free tech support hotline; 2-yr warranty.

Stock #3285 [LAN Card] List \$169 \$149



WinMax PC Cards combine all your communication needs into one PCMCIA Type II card—

DATA RACE
Connections for Computers™

Brand New



- Ethernet LAN
- 19.2 Kbps modem • 14 Kbps fax

With the combo model you can even download data from your LAN and send it out over the modem in one step.

V.42bis for 4 to 1 compression—V.42 for error-free transmission—ODI and NDIS drivers. Includes 3.5" disk with installation software and drivers, 7' RJ-11 phone cable with adapters. Requires 386 running Windows 3.1 (and Windows for Workgroups 3.1) or more.

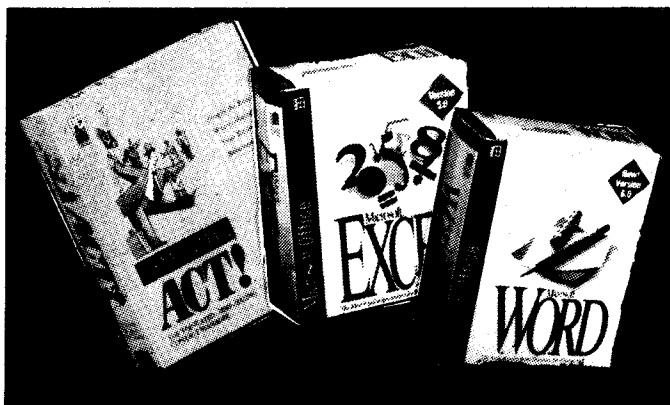
Stock #3319 [fax/modem/LAN card] \$249

Stock #3320 [fax/modem only card] \$129

Stock #3321 [LAN only card] \$99

Read our mail from Mississippi—

Thank you for your quick response and help. Glad to see that EduCALC is still one company who has the best interest of their customers in mind. I have repeatedly recommended your company to many friends who have purchased items from you. They also received quick and courteous service. Ron Burnham, Biloxi



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

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 \$279

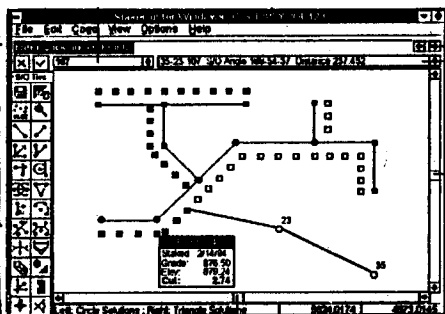
StakeOut for Windows

Mid-Atlantic

Just one look is all it takes . . .

. . . to verify survey computations and construction stake-outs—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.



Basic Edition includes Circle and Triangle solutions, Inverse, Traverse, Sideshots, Stakeout Ties, Intersections, Resection, 3-Point Radius, Station and Offset, Horizontal and Vertical Baselines, Elevations, Areas, Import/Export ASCII cogo, Plot to scale with any printer/plotter. Rotate and Translate (simultaneously, with visual display of moving points) and an interactive RPN Calculator.

Standard Edition has all features of the Basic Edition plus Cutsheets, Cogo Collection, Compass Rule Adjustment, and DXF file transfers to AutoCAD. Supports all major Total Stations.

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 #3275 (Basic Edition) \$79

Stock #3276 (Standard Edition) \$195

Stock #3268 (Professional Edition) \$299

Announcing the EduCALC Bulletin Board System

Opening June 15, the EduCALC Bulletin Board System is your newest method of support from EduCALC! To better serve its customers, EduCALC has installed a dedicated, state-of-the-art, multi-line Bulletin Board System (BBS).

EduCALC customers can get all of the following free of charge:

- ✓ place a catalog order
- ✓ request help from technical support
- ✓ view/download current catalog information
- ✓ view general message areas
- ✓ read and respond to classified ads
- ✓ order and download selected software on-line!
- ✓ download from general file areas

For a small subscription fee, EduCALC Bulletin Board Priority customers will get all of the above plus:

- ✓ view/download the latest catalog before it's released!
- ✓ place classified ads
- ✓ view weekly specials available only to priority customers
- ✓ special download file areas
- ✓ plus other valuable benefits!

Due to the delay in bringing the EduCALC BBS on-line, the date that all EduCALC customers may access the Priority areas of the BBS free of charge has been extended to November 15, 1995. After that date, paying the small six-month access fee will be required for Priority Customer access. As a special bonus, all subscriptions received in 1995 will automatically be extended until July of 1996!

The EduCALC Bulletin Board System can be reached at (714) 348-8115. Set your communications software to 8 bits, no parity, 1 stop bit (8-N-1). Baud rates up to 28.8K are supported.

EduCALC BBS (714) 348-8115 8-N-1

New Service — CD-ROMs

Orders can now be placed through the EduCALC Bulletin Board System for pre-mastered CD-ROMs. A video-to-CD-ROM service is also available. Log on to the EduCALC Bulletin Board at (714) 348-8115 for full details!

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

HP OmniBook

Compare the HP 4000 to the competition
(IBM ThinkPad 755, Compaq LTE Elite,
Toshiba T4800CT)



more
TFT colors —
max 64K

double
battery life

larger displays—
10.3 & 10.4"

*Sale **
Price Reduced

built-in
stereo
sound

higher RAM
capacity
with more
standard
RAM

comes with both—
Windows 3.11 and
Windows 95—
you choose

↑ better, integrated trackball

If you require the finest —

Stock #F1081A [4000C, 50 MHz, 260 MB]	\$2129	Stock #F1160A [4000CT, 100 MHz, 810 MB, 16 MB RAM]	\$4309
Stock #F1082A [4000C, 50 MHz, 340 MB]	\$2329	Stock #F1090A [Enhanced Port Replicator]	\$284
Stock #F1083A [4000C, 50 MHz, 520 MB]	\$2529	Stock #F1076A [4-MB RAM Expansion Card]	\$265
Stock #F1094A [4000CT, 50 MHz, 340 MB]	\$2699	Stock #F1077A [8-MB RAM Expansion Card]	\$529
Stock #F1095A [4000CT, 50 MHz, 520 MB]	\$2939	Stock #F1078A [16-MB RAM Expansion Card]	\$1189
Stock #F1157A [4000CT, 75 MHz, 340 MB]	\$3029	Stock #F1072A [AC Adapter]	\$94
Stock #F1158A [4000CT, 75 MHz, 520 MB]	\$3299	Stock #F1073A [NiMH Battery Pack Module]	\$124
Stock #F1159A [4000CT, 75 MHz, 810 MB]	\$3649	Stock #F1075A [Automobile Adapter]	\$94
Stock #F1086A [4000C, 100 MHz, 340 MB]	\$2549	Stock #F1079A [3.5" Disk Drive Module]	\$139
Stock #F1087A [4000C, 100 MHz, 520 MB]	\$2769	Stock #F1091A [260-MB Hard Disk Drive]	\$579
Stock #F1096A [4000C, 100 MHz, 810 MB]	\$3109	Stock #F1092A [340-MB Hard Disk Drive]	\$769
Stock #F1088A [4000CT, 100 MHz, 340 MB]	\$3209	Stock #F1093A [520-MB Hard Disk Drive]	\$1209
Stock #F1089A [4000CT, 100 MHz, 520 MB]	\$3579	Stock #H5508A [4000C/CT Support Pack]	\$200
Stock #F1097A [4000CT, 100 MHz, 810 MB]	\$3752		

HP OmniBook 4000 Superportable PC

HP Omnibook 4000 Series - Full sized with full power, advanced desktop-to-go PCs

Not just power specs, either — HP has made the HP 4000 exceptionally comfortable to use, even when you work all day long. Easy access to peripherals, too.

Trust Hewlett-Packard to bring you *bigger displays with more colors* and built-in *stereo*, and impressive *computing power* in a standard-size notebook. There's a bonus, too—you can remove your floppy-disk drive when you travel, then pop in an optional second battery, for *double the battery life*.

Reliability? Yes, it's HP, so you get a 3-year warranty which affords overnight replacement during the first year.

All models have 8 MB RAM except F1081A has 4 MB. HP 4000C models have DSTN (dual-scan passive) displays. HP 4000CT models have TFT (active color) displays. Choose from 3 hard-disk capacities and either 486DX2/50 Mhz or DX4/100 MHz Intel processors.

Technical Specifications

Size Closed

- 29.5 x 22.6 x 4.9 cm
(11.6 x 8.9 x 1.93 in)

Weight

- DSTN (C): 3.13 kg (6.9 lb)
- TFT (CT): 3.27 kg (7.2 lb)

Processors

- 50-MHz Intel 486 DX2
- 100-MHz Intel 486 DX4

Display

- 640 x 480 backlit color VGA
- 10.3-inch diagonal DSTN (up to 256 colors)
- 10.4-inch diagonal TFT (up to 64,000 colors)
- SVGA-out supports VGA & SVGA monitors (up to 1024 x 768 x 256 colors)
- Local bus video;
- 1 MB display RAM

Storage Environment

- Temperature: -40 to 65° C (-40 to 149° F)
- 90% relative humidity at 65° C (149° F) maximum

Mass Storage

- 260-, 340-, or 520-MB hard disk options

RAM

- 4- and 8-MB RAM models (expandable up to 32 MB with optional RAM expansion cards)

Audio

- 16-bit, Sound Blaster-compatible
- Stereo sound via two built-in stereo speakers

Keyboard and Trackball

- 85-key touch-type keyboard
- Embedded numeric keypad
- 12 [Fn] keys
- Large 25-mm trackball

Security

- Kensington lock slots

Power

- 14.4 Vdc rechargeable NiMH batt pack
- Battery life (approximate with one battery per industry-standard rundown test):
3.5 hrs on DSTN DX2/50
2.5 hrs on TFT DX4/100
- AC adapter 100 to 240 Vac (50 to 60 Hz) input; 21 Vdc, 1.35 A output

Removable Modules

- Floppy disk drive (can be replaced with second battery for double battery life)
- Hard disk drive
- Battery

Operating Environment

- Temperature:
DSTN: 5 to 40° C (41 to 104° F)
TFT: 10 to 40° C (50 to 104° F)
- 90% relative humidity at 40° C (104° F) maximum

Input/Output

- 9-pin, 115,200-baud, RS-232 port
- 25-pin EPP and ECP parallel port
- SVGA-out (up to 1024 x 768 x 256)
- 115,200-baud, bidirectional infrared
- Expansion bus connector
- Keyboard/mouse port
- Headphone/stereo-out port
- Microphone port
- Stereo-in port

Expandability

- One Type III PCMCIA slot (or use as two Type II slots)
- Enhanced port replicator with parallel, two serial, SVGA-out (up to 1024 x 768), keyboard, PS/2 mouse, and SCSI ports; and PCMCIA slot (concurrent Type II and Type III)

Pre-installed Software

- Microsoft® Windows™ for Workgroups 3.11 AND Windows 95—both installed so you can choose
- MS-DOS 6.2® (includes "Plug and Play" BIOS)
- Laplink Remote Access™ Easy connection to your desktop PC, network and desktop printers. Works via cable or infrared

announcing

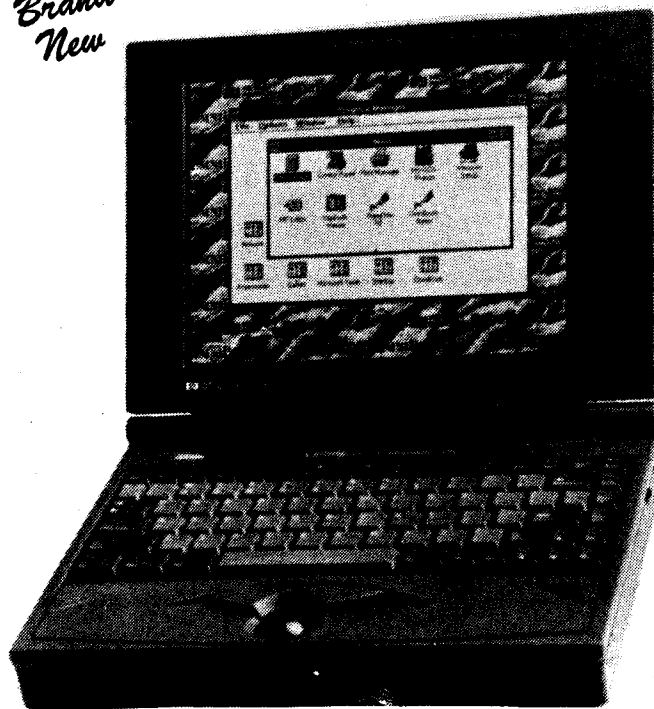
HP OmniBook 5000 Superportable PC

Pentium power says all the right things about you



comes with both—Windows 3.11 and Windows 95—you choose

Brand New



Your Pentium will run at a blazing 90 megahertz in this, the finest notebook available—plus you'll have a Gigabyte of room on your hard disk (that's 1000 MB)!

That Pentium chip has an external synchronous L2 cache of 256K, and feeds a 32-bit PCI bus—so it's fast, fast, fast. Plus, the graphics accelerator has 1.5 MB of display RAM to work with—for smooth, full-motion video.

Version 5000 CT has an eye-popping VGA display and 8 MB of working RAM, while the 5000 CTS has SVGA and 16 MB—plus you can upgrade either to 64K RAM. Both have NTSC/PAL video-out, SCSI-2 for CD-ROM and tape, and MIDI/joystick ports. Sound Blaster stereo for multimedia.

The battery is of the new Lithium-Ion type (with 40% more power) and you can substitute a second battery for the removable 3.5" floppy disk drive module when you want to double your battery life.

Instant-On is a real boon (if you're as impatient as I am)—it maintains your computer in ready-to-work state for weeks on a charge, always returning you to your application or file instantly, with no reboot. Also, Plug and Play autoconfigures for peripherals.

Other special features include HP PIM software for personal and business contact data management, 2 full-length ISA slots, a microphone and audio jacks.

Plus your OmniBook 5000 will have every feature and power specification of the OB 4000 Series.

Stock #F1130A [5000CT, P-90, VGA, 8MB RAM]	\$5998
Stock #F1131A [5000 CTS, P-90, SVGA, 16 MB RAM]	\$6398
Stock #F1098A [Docking System]	\$499
Stock #F1134A [8 MB RAM Expansion Card]	\$529
Stock #F1135A [16 MB RAM Expansion Card]	\$1173
Stock #F1136A [32 MB RAM Expansion Card]	\$2089
Stock #F1137A [Lithium-Ion Battery Pack]	\$239
Stock #F1044B [AC Adapter]	\$94
Stock #F1064A [Automobile Adapter]	\$94
Stock #F1074A [External Battery charger]	\$142
Stock #F5508A [5000 CT/CTS Support Pack]	\$200

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 32.

	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	82243A	
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	
D	HP41C, 41CV, 41CX	4 x N	2403, 642, 2127	511		
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, 2519, 2520 2764	

Manufacturer	Stock #	Battery No. x Size	Stands	Manufacturer	Stock #	Battery No. x Size	Stands
CI	CMIII	1 x CR2032	642, 2127	Pison	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

Get Instant Gratification—
 use our optional UPS Overnight Delivery!

Plastic folding stand—adjustable viewing angle, quickly collapses for your pocket. A Best Buy.
 Stock #3351 [Plastic stand; 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

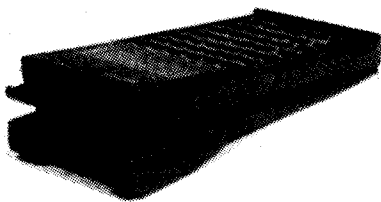
Personalize any stand above with your own name, engraved in blackened letters on bright chrome-plated brass. Self adhesive backing. Please fill in boxes below for up to 16 engraved characters (including punctuation and spaces)—just tear out this page and send it with your order. Dimensions: .375" x 2".

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

Catalog shopping is convenient—
 why suffer the mall?

calculator stands, cases & batteries

 <p>#2225 #511 #2062 #2063</p>	 <p>#2403</p>	 <p>#92169B #92169D #92169E #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 #2225 [Hard Leather Case - 48SX, tan, size F] . . . \$42.95

Belt Holster with belt clip

Stock #3000 [Belt Holster, Black sizes D, F, G] . . . \$14.95

Tuck-top wallet

with a second layer of pliant cowhide

Stock #92169D [HP wallet: Black, size B] List \$19 . . . ~~\$17.95~~ ^{Sale}

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

Soft Vinyl Cases for the HP 48



Just like the one that came with your instrument.

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

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 second 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!**

Thank you for your order!

calculator stands, cases & batteries

RAYOVAC
RENEWAL Lithium Batteries
 REUSABLE ALKALINE..



DURACELL®

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, are ready to use new, hold their charge in storage, have no memory problem, do no harm 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

Nickel Cadmium Rechargeable

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. You'll get up to 1000 recharges on each set.

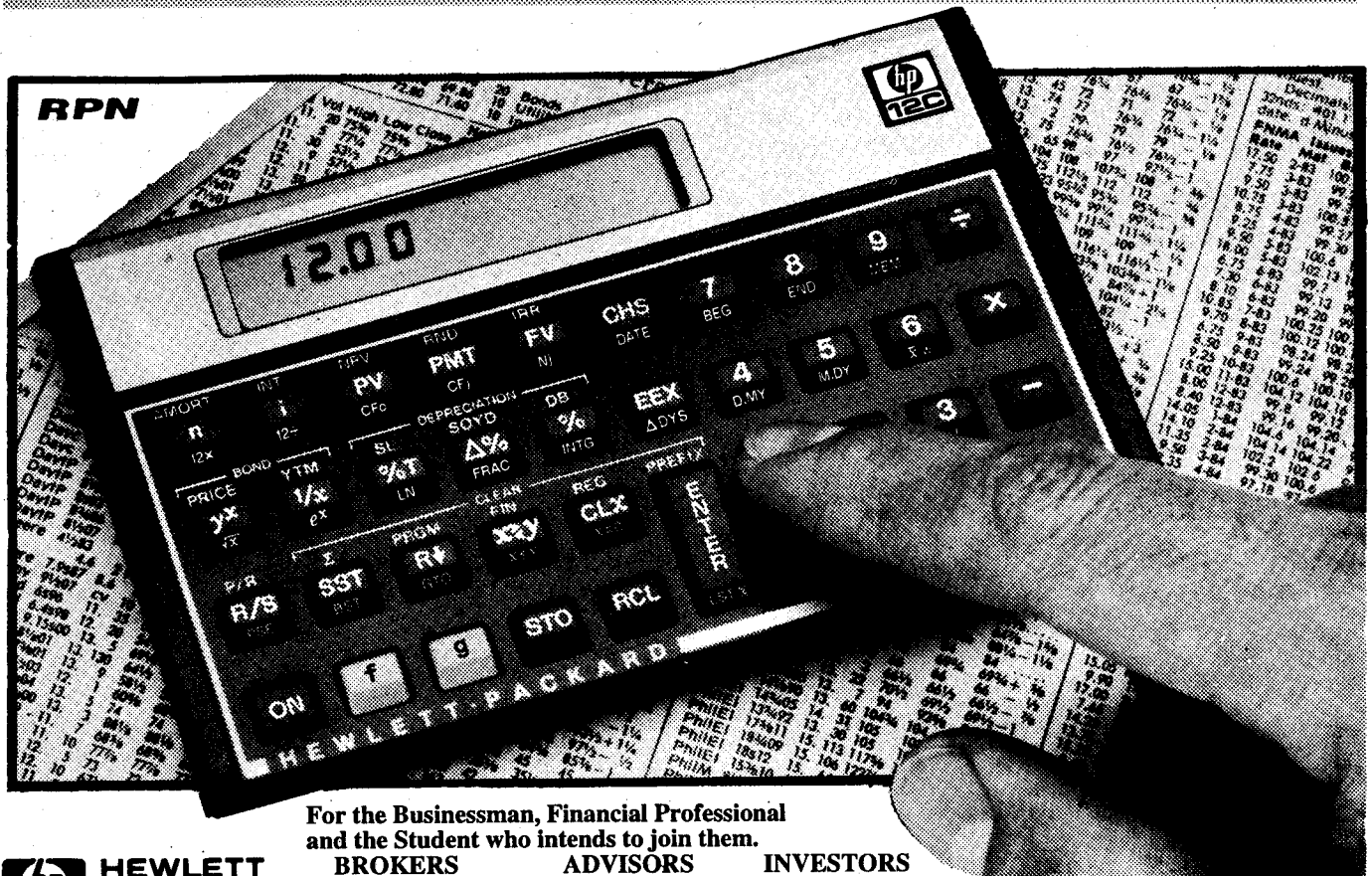
Stock #NAA [NiCd rechargeable 500 m AH, AA] \$2.89
 Stock #2784 [Hi-capacity NiCd 850 m AH, AA, qty 2] \$6.95
 Stock #2785 [Hi-capacity batteries (2) w recharger] \$24.95

SAVE THESE NUMBERS

BB MARKETING (Norway)	011 4722190161
CASIO Technical Help Line	(800)634-1895
CALCULATED INDUSTRIES	(800)854-8075
COMPUTERBOOKS	(714)376-9012
CVP MICROSYSTEMS	(800)699-6961
CORVALLIS MICRO TECHNOLOGY	(503)752-5456
D'ZIGN	(209)297-8025
EduCALC NEWS LINE	(714)582-3976
EPSON	(800)922-8911
FIRMWARE	(503)753-3617
HEWLETT-PACKARD Customer Support Repair Service Technical Support Customer Information Mobile Computing Information APCD BBS	(503)715-2004 (916)785-1200 (208)323-2551 (800)752-0900 (800)443-1254 (503)750-4448
HP 12C, 17B & 19B SEMINARS Edric Cane	(818)957-3026
HP PALMTOP SEMINARS Computer Applications Co Craig A. Levine	(800)487-5040 (310)374-6167
INTELLILINK	(603)888-0666
KERMIT Technical Support (Columbia University)	(212)854-5126
NEW MEDIA	(714)453-0100
MAXTOR Technical Support	(800)262-9867 (714)364-1208
PSION Tech Support	(508)371-0310
SHARP Technical Support Wizard Information	(800)237-4277 (800)321-8877
SHIER SYSTEMS	(805)371-9391
SPARCOM	(503)757-8416
SURVEY MODULE INC Technical Support	(800)234-0123 (615)357-8931
TEXAS INSTRUMENTS Consumer Relations Technical Support Literature	(800)842-2737 (817)774-6827 (800)847-2787
TRIPOD DATA SYSTEMS	(503)753-9322 (800)426-8026
U. S. ROBOTICS Customer Support	(708)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.

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 (Battery, case & manual incl) List \$83 . . . \$64.95
Stock #92169B [HP Wallet, black] . . . \$11.95

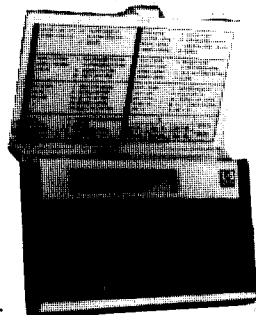
**Protect and display your HP 12C
as a jewel in its solid brass case!**

Actavision

Impress your clients while you armor your calculator — radiate strength and safety.

Clicks open to become a handy stand for quick computations — it even comes with self-adhesive HP instructions to mount inside case, right where you need them.

Beautiful jewel finish shows no fingerprints.
Stock #3297 [Brass HP 12C Case] . . . \$29.95



Calculator batteries, stands & cases: see pp 30-32

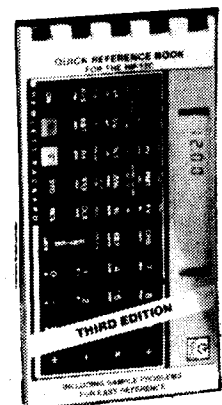
Quick Reference Guide for the HP 12C

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



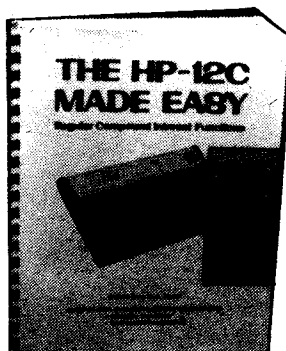
HP 12C business calculator

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

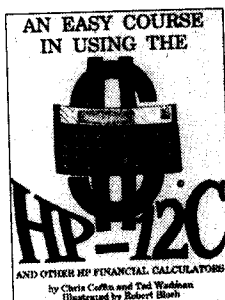


An Easy Course in using the HP 12C

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.

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



Professional Real Estate Problem Solving Using the HP 12C

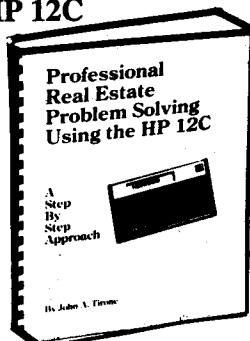
by John Tirone

- brokers
- investors
- lenders
- attorneys

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



An introduction to Cashflow Analysis

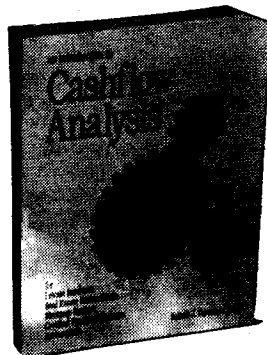
by Robert Donohue

Brand New

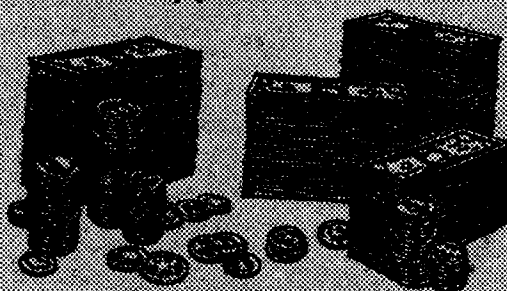
The evaluation of money transactions, from an after-tax analysis of income property to the leasing of your next car—all made simple and understandable even to a reader with little or no financial background.

Lots of worked-out examples of everyday financial situations with their solutions—either on a hand-held financial calculator like the HP-12C, or on a computer spreadsheet like Lotus 1-2-3 or Excel.

Stock #3354, Cashflow Analysis, 222p softbound \$29.95



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 finances, 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

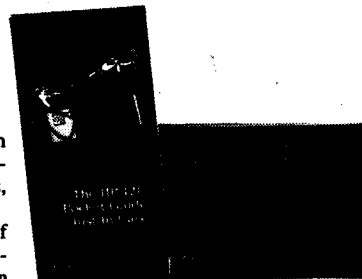
The HP 12C Pocket Guide: Just in Case

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

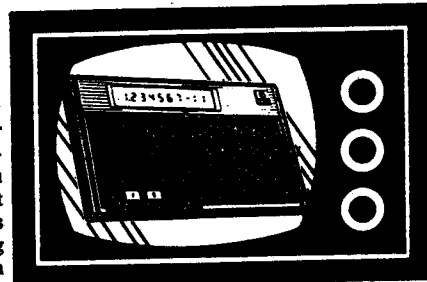


HP 12C Video Training Program

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.

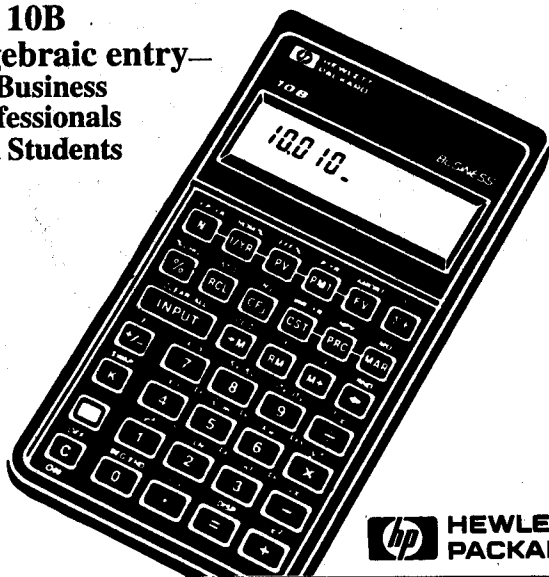
Former college professor Hillard is the RE broker that conducts HP 12C workshops nationally for the RE, banking and financial industries.

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



HP 10B HP 17BII business calculator

HP 10B Algebraic entry— for Business Professionals and Students



**hp HEWLETT
PACKARD**

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

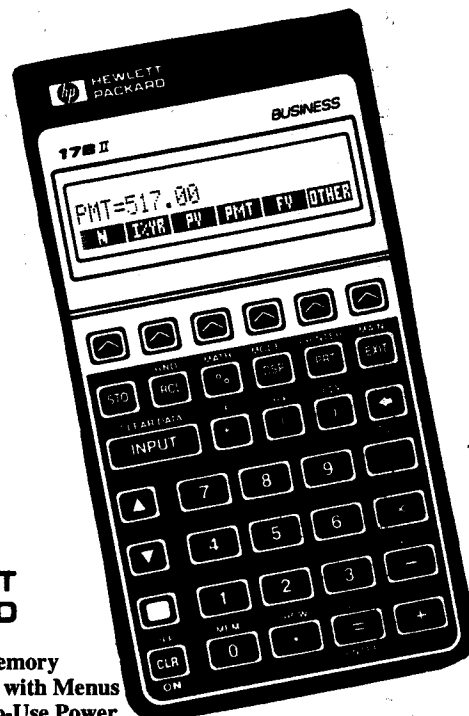
- **Statistics and Math**
 - Mean, standard deviation (1 or 2 variables),
 - Weighted mean
 - Forecasting/curve fitting
 - LN, LOG, e^x , 10^x , y^x , \sqrt{x} , x^2 , $1/x$

- **Time and Dates**
 - Appointments and alarms
 - Clock, calendar

HP 17BII



**hp HEWLETT
PACKARD**



- 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 batteries, stands & cases: see pp 30-32

Now—traditional HP reliability is affordable

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

1) **HP dependability**—molded keys, so the letters will never rub off and you'll never have to worry about sticking keys or double entries.

2) **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.

3) **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

An Easy Course in Using the HP 17BII

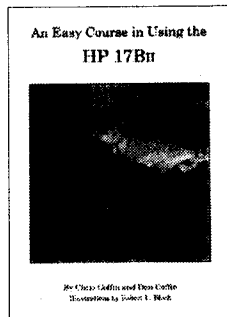
GRAPEVINE PUBLICATIONS, INC.

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



HP 17BII business calculator

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.

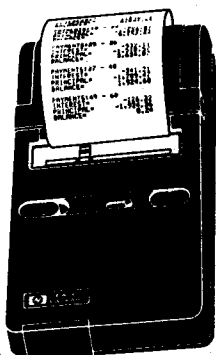
Printer connection cords have been replaced by an invisible infrared beam from your HP calculator. It's the only link required for your printing needs.

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, compact for IR Printer] . . . \$34.95
Stock #82241A [AC Adapter for IR Printer] . . . \$14.95
Stock #82175A [2.25" Printer Paper, black, 6 rolls] . . . \$9.95
Stock #AA [Batteries, Printer uses 4] . . . ea \$8.89
Stock #92169H [Cover, brown] . . . \$22.95
Stock #92169G [Cover, black] . . . \$22.95

Foreign adapters available; see page 12 (palmtops section).

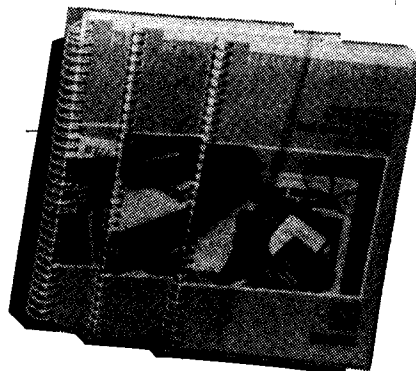


Step-by-Step Books for Business
Using the HP 17B, 19B and 27S



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

Ratios in Investment Real Estate

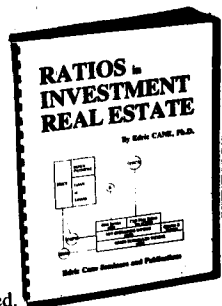
by Edric Cane

- 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



Not just Investors, but also Appraisers—Brokers, yes, and Bankers too . . .

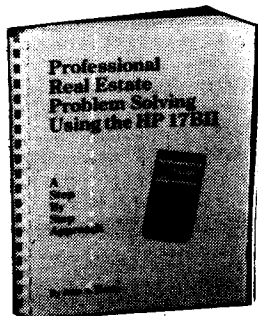
Professional Real Estate Problem Solving using the HP 17BII

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 #3278, RE Problem Solving, 327p combbound . . . \$29.95



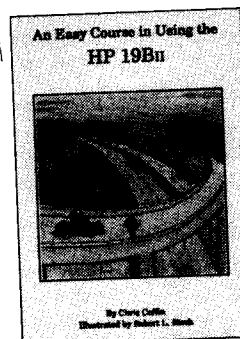
An Easy Course in Using the HP 19BII

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



HP 19BII business calculator

John C. Dvorak of the *San Francisco Examiner* and *PC Magazine* calls the HP 19BII "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**

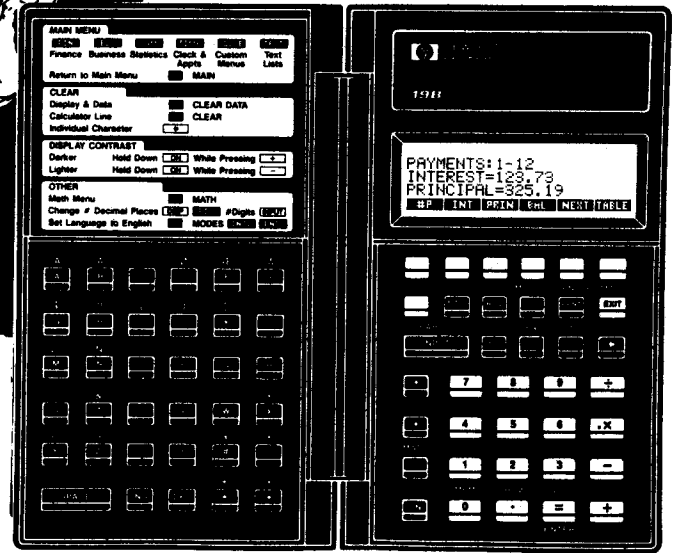
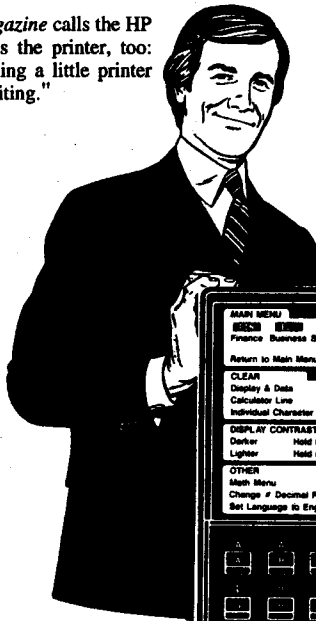
**Problem-Oriented
Power**

**Time-Managing
Power**

**Menu-Driven
Power**



The HP 19BII Calculator 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 HP 19BII 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 HP 19BII 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 HP 19BII'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 HP 19B 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 HP 19BII CALCULATOR what the problem is!

• **TIME-MANAGING POWER**—the HP 19BII 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 HP 19BII 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 HP 19BII business calculator 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 HP 19BII 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 Calculator II] List \$175 \$134.95

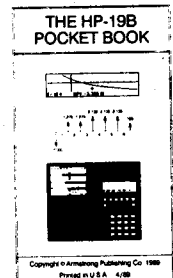
HP 19B Pocket Book

by James Donnelly

All the help and reference you'll want to have along with you—fits right in the optional 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 30-32
InfraRed Printer: see p 36

school calcs

projectable calcs

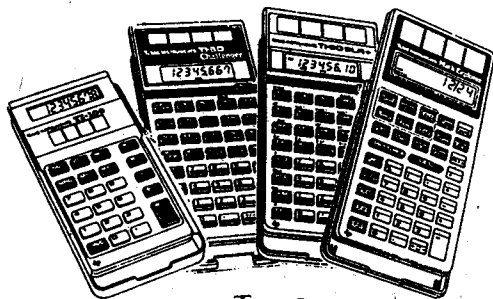
Notice to Educators -

EduCALC is your distributor for school calculators—from TI, and HP—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



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] List \$7.50 . . . \$5.95

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] List \$11 . . . \$7.95

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] List \$19.90 . . . \$16.95

For middle schools: TI Explorer Plus

The first lo-cost calculator combining powerful fractions capabilities with a full range of scientific functions. Student input fractions as they are normally written. 2 Constant Operators, 1-variable statistics, logs and anti-logs, powers and roots, polar/rectangular, trip and inverse trig in deg/rad/ grad.

Stock #TIEP [Explorer Plus] List \$24.95 . . . \$20.95

For grades 7 through 10: TI-30 Challenger

All basic math, trig and scientific functions, including logarithms, anti-logarithms, pi. Large color-coded keys speed calculations, minimize errors.

Stock #TI30C [Challenger 30] List \$19.95 . . . \$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] List \$24.95 . . . \$17.95

Stock #TI34 [Advanced Scientific] List \$. . . \$20.95

See calculator activities books on p 42.

Educator Overhead-Display Calculators

Stokes

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 #3356 [Educator, emulates TI-30XaSE]	...	\$79.95
Stock #3357 [Educator, emulates TI-32 Exp. Plus]	...	\$79.95
Stock #2325 [Educator, emulates TI-34]	...	\$79.95

InVision 48 Overhead Display for HP 48SX/GX

Firmware

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

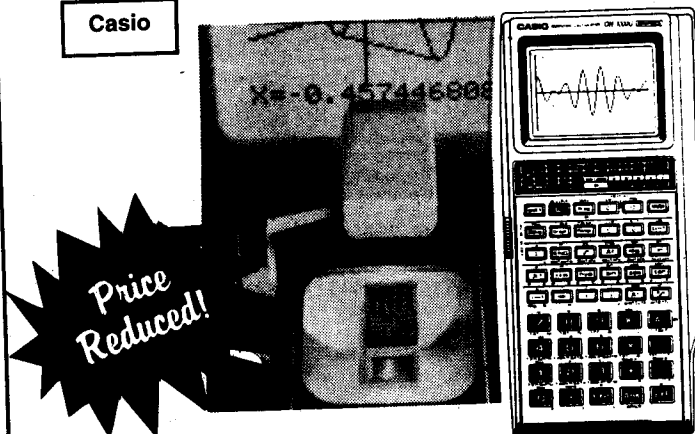
All features and functions of the TI-80, TI-81, TI-82 or TI-85 in a hand-held control unit that is connected by a 10-foot cable to its display unit which will fit on top of most any OH projector (not for high-intensity or reflective-type projectors).

Package includes Overhead Enlarger, Thermal Absorption Device, Guidebook, calculator/display unit, 4 AAA batteries and a rigid case for it all.

Stock #3067 [TI-80 ViewScreen]	...	\$349
Stock #2328 [TI-81 ViewScreen]	...	\$315
Stock #2791 [TI-82 ViewScreen]	...	\$349
Stock #2733 [TI-85 ViewScreen]	...	\$449

Overhead Projectable Model

Casio



All features of the fx-7000G plus a transparent screen.
Stock #OH7000G [Overhead Projectable Display] ~~\$224~~ \$274.95

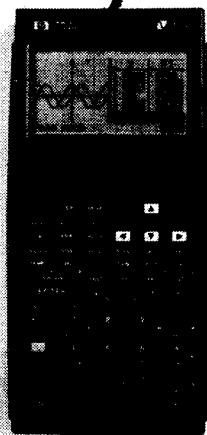
HP 38G graphic calculator

HP 38G Graphic Calculator

algebraic logic

- Aplets
- Zoom
- Equation Solver
- Infrared

You'll send data, equations, notes, even Aplets to friends and classmates. With the built-in infrared communications, you don't need extra wires or cables.



HEWLETT
PACKARD



Your hard cover protects the display and keys. Just flip it over and slide it into place, easy as 1-2-3.

Call Brent Martin, ext. 129 for School Bids

Aplets are those cool new electronic hand-outs — complete with variables labeled on pictures of the problem, equations, graphs and notes.

Here's your no-fear way to experiment and explore math concepts on your own at your pace. This way you'll understand and remember the math principles — it's easy and natural.

You can even create Aplets yourself — then zap them to other students via the Infrared—or you can zap to the overhead, right from your own HP 38G!

The **HP Equation Solver** will get you cyber-answers at the touch of a button. You'll also have polynomial root-finding, and your HP 38G handles complex-number arithmetic.

Your programming capability is limited only by the available memory — which is a whopping 32K RAM.

You can do symbolic calculations like variable isolation, quadratic-equation solving, variable substitution, and even Taylor series approximation.

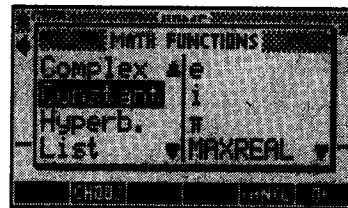
15 **Zoom** features make your HP 38G come alive like a digital microscope! You'll graph up to 10 functions simultaneously, tracing them on a single graph—rectangular, parametric, polar-recursive sequences.

Matrix operations include determinants, eigenvectors and row operations.

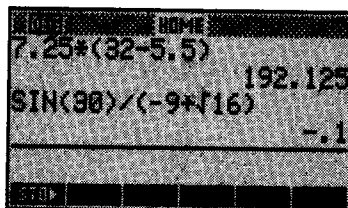
Statistical analyses are list-based for one and two variables with 7 regression models, box-and-whisker plots, histograms, scatter diagrams, regressions equation graphs — the works!

Stock #HP38G [Graphic Calc]

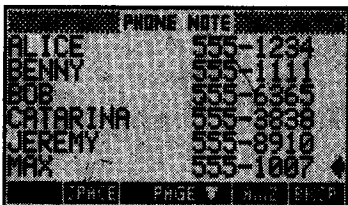
List \$109 \$84.95



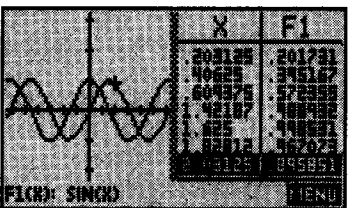
You access all the 38G's functions through easy-to-read menus. No more keystroke memorization.



You enter data in simple, algebraic notation that looks and works just like equations written on paper.



You see equations, formulas, graphs, notes and sketches. With 32K of built-in memory, it's amazingly powerful!



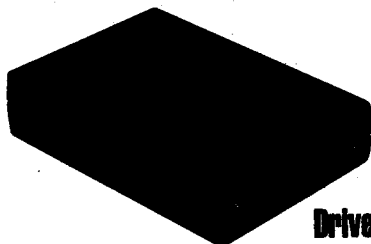
You can even see two displays side-by-side for comparisons!



Drive 95 portable 3.5" disk drive for the HP 38G

Sparcom

Brand New



Drive95

Send (copy) and receive items such as an aplet, matrix, list, program, or note you create from the Notepad function using the Drive 95 with your HP 38G.

See Stock #2602 on page 00 for full description. Version for HP 38G has special cable, adapter and instructions.

Stock #2602A [Drive 95 for 38G] List \$360 \$323

ScratchHPad38/48

April Street

Brand New

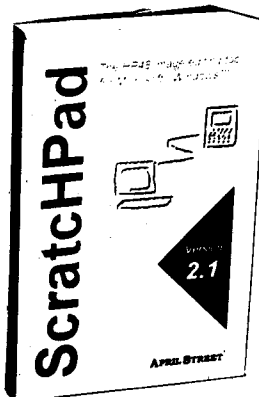
turns your HP 38/48 into a valuable image-display tool

- transfer images from your HP 38/48 to your PC running Windows — and from PC to calculator
- archive your HP 38/48 graphic images on your PC hard drive — save valuable calculator memory

Requires PC with Windows 3.1 or higher, 1MB disk space, EGA or better pointing device (mouse), serial port (for image transfer).

Stock #3371 (ScratchHPad38, 3.5") List \$19.95 \$17.95

Stock #3072 (ScratchHPad48, 3.5") List \$49.95 \$35.95



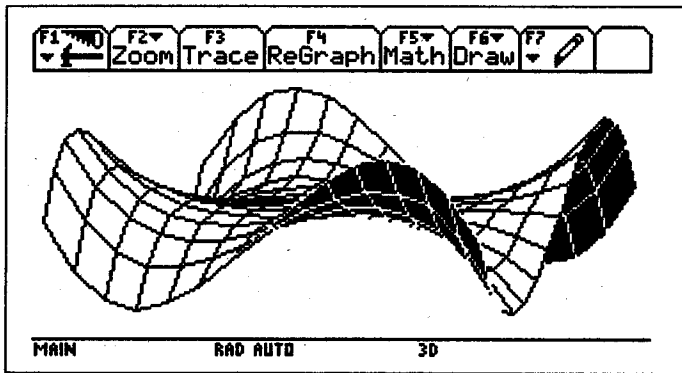
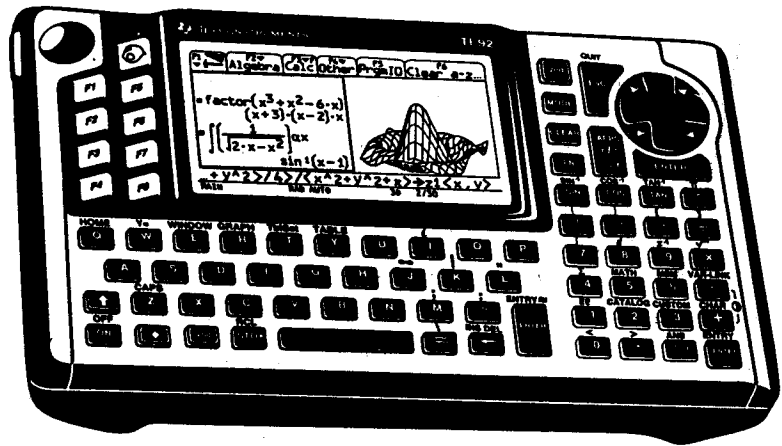
TI-92 graphic calculator

the power of a computer lab,
the independence of a calculator—
accessible for spontaneous use

Familiar scientific calculator keys
like the TI-82.

Function keys F1-F8 operate the toolbox
to get pulldown menus.

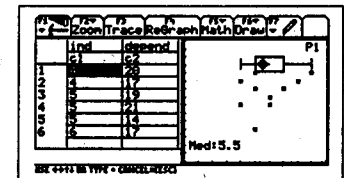
Typewriter/computer QWERTY keyboard
for taking notes



You get 3-dimensional graphing
(either wire frame or hidden surface)
like this life-size picture
of the 240 x 128 pixel display

*Available
November*

You'll do list-based
1- and 2-variable statistics;
scatter, x-y line
and box plots (picture
reduced to 50%).

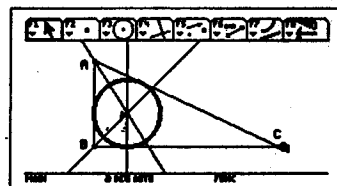
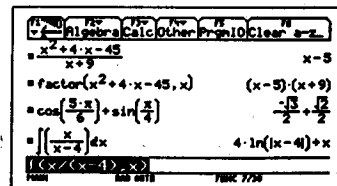
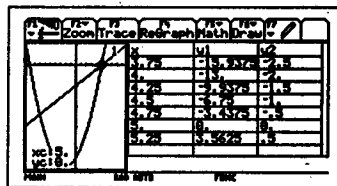


You'll have the easy programming capability
of the TI-85 and more: parameter passing
plus local and global variables.

Connectivity: unit-to-unit link cable (included) lets you share fast with another TI-92. You can also link to the (optional) CBL System, and via (optional) Graphic Link to a desktop computer.

Your symbolic manipulation powers will include arithmetic with undefined variables, polynomial factor and expand, and roots of equations. In calculus you'll do indefinite integrals, derivatives, limits, and Taylor polynomials. It works like DERIVE.

Interactive Euclidean, transformational and analytic geometry — you can construct with points and lines, triangles and polygons, circles and arcs — easily, as with Cabri Geometry II.



Split your screen, either left/right or top/bottom, 1:2 or 1:1 or 2:1. You can even have 2 separate graphing environments, like function/parametric graphing.

Pretty Print is your new method for displaying math expressions — fractions, radicals, exponents, complex numbers and absolute values — just like on the blackboard.

You'll do it fast with the 8-direction cursor. Plus you'll write with a text editor that can CUT, COPY, PASTE and FIND with the best of them.

Impact-resistant case doubles as a stand for table-top use. Four AA batteries (included), 20 oz, 4.7 x 8.2 x 1.2 inches; 1 yr warranty.

Stock #TI92 [Computer/Calculator] List \$250 \$199.95
Stock #2792 [TI-Graph Link, cable] \$61.95

**TEXAS
INSTRUMENTS**

graphic calculators

TI-80 lo-cost graphics power

TEXAS
INSTRUMENTS

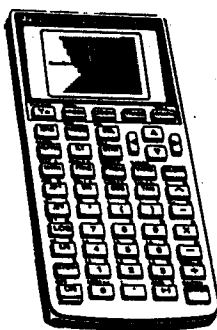
Graphs, defines and saves up to 4 functions, 3 parametric equations, and 4 plot types. Easy-to-use pull-down menus. Last-entry buffer holds last 10 steps.

List-based statistics with 5 regression models, scatter plots, box-and-whisker plots, xy-lines and histograms. Function-value tabulations. Operations and manipulations with fractions. Probability with random numbers, permutations and combinations.

Programming with 7K bytes of memory. 8 line \times 16 character LCD. Slide case. 1-yr warranty.

Stock #TI80 [Graphing Calculator] List \$110 \$69.95

New



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.

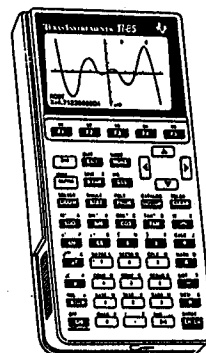
Programmable with branching and looping; 32K bytes RAM

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.

TI-Graph Link lets you transfer programs and data between a TI-85 calculator (or a TI-82) and your computer. You can save and print screen images for use in word processing, graphics, etc. Mac and Win versions also let you create, save, edit and print programs from your computer, plus transfer programs, data and images to other applications using the clipboard. Product includes cable and software for DOS, Mac and Windows.

Stock #TI85 [Graphics Calculator] List \$135 \$119.95

Stock #2792 [TI-Graph Link, cable] \$61.95



TI-81 Graphics Calculator

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INSTRUMENTS

Superior interactive graphing features—so you'll have the power to easily analyze the behavior of several functions at once and solve equations graphically. Zoom functions.

Pull-down display menu—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.

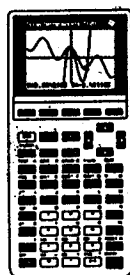
Big Constant Memory—so you can save up to 37 programs totalling 2400 bytes, using up to 27 stored variables. List-based statistics.

Manual, protective slide-on cover, batteries included; 1 year warranty.

Stock #TI81 [Graphics Scientific Calculator] List \$115 . . . \$79.95

Stock #TI81E [Factory Reconditioned TI-81] \$49.95

Stock #PC81 (Emulator Software for PC, 5.25") \$45.95



TI-82 Graphics Calculator

TEXAS
INSTRUMENTS

Most Popular!

The new way to go through calculus and statistics—special powers like cobweb graphs, function tables, split screens and box/whisker plots.

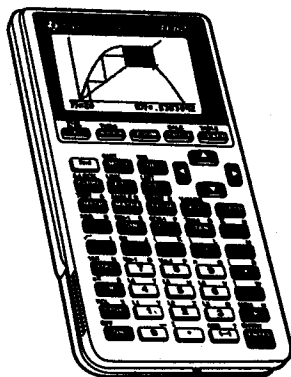
All the popular features of the TI-81—almost all the TI-81 keys are in the same places, so you can pick the 82 up and use it instantly!

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 . . . ~~\$89.95~~ \$97.95

Stock #2792 [TI-Graph Link, cable] List \$70 \$61.95



CBL Calculator-Based

Laboratory
data-acquisition
for your TI 82/85

TEXAS
INSTRUMENTS

CBL is a handheld, battery operated, portable date-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.

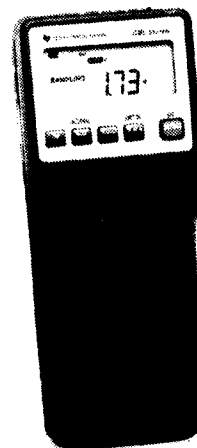
You get 3 probes (or 'sensors') with your CBL system, for temperature, light intensity and voltage. Plus you can use an adapter (optional) with existing third-party probes to sense force or pH, or to detect motion ultrasonically.

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.

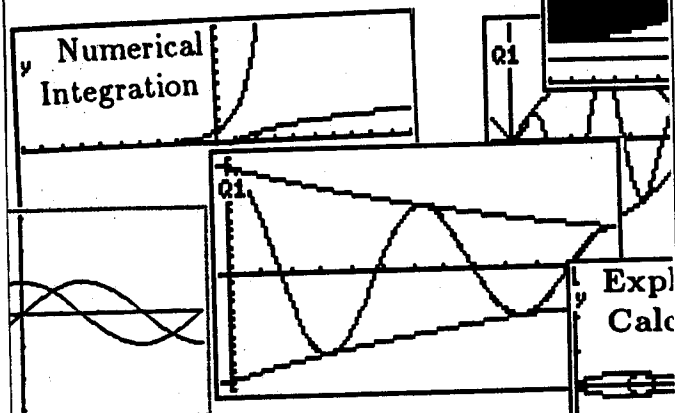
Stock #3250 [Calculator-Based Laboratory] List \$225 . . . \$199.95

Stock #3046 [AC Adapter] List \$19 \$15.95



graphic calculators

**Need help graphing?
Get it right with a book -
that's the easy way!**



Time series for SBWIN and SBLOSE.



Learn about the calculator,
learn about the course—
study with a class or work by yourself.

**Explorations in
Probability**

Investigating Mathematics with the TI-81

by Williams/Scott

Brand New

A source-book for this, the most popular graphing calculator—so you can use it to investigate algebra, geometry and advanced topics in secondary math.

Contains a beginning section on the features of the TI-81, then 40 activity topics (each from 1 to 4 pages; all may be copied for students), plus teacher notes for each topic.

Stock #3352, Math with the TI-81, 78p softbound \$14.94

Programs with the TI-81 and TI-82 Calculators

by Stuart Ball

Brand New

70 complete programs that are useful in secondary math classes from prealgebra to calculus.

Each program is given in two versions, for the TI-81 and TI-82. Each has a description plus directions for finding the commands. These programs are not minimal or confusing; rather they are written to be easy to follow and understand.

Stock #3353, TI-81/82 Programs, 228p softbound \$14.95

Explorations with the Texas Instruments TI-85

by Harvey/Kenelly (eds.)

- Precalculus ■ Prob/Statistics ■ Adv Engineering Math
- Business Math ■ Calculus I and II ■ Linear Algebra ■ Dif Eqns

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.

Stock #2829, Explorations with TI-85, 360p softbound \$32.50

Introduction to Programming on the TI-81/82/85

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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

Investigating Probability and Statistics using the TI-82

by Jones/Rich/Thornton/Day

You'll do almost 100 hands-on explorations involving data analysis, probability simulations, random numbers, complex counting, modelling, and predicting—to get your easy TI-82 stat power!

Stock #3322, Prob/Stat on TI-82, 148p softbound \$15.95

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 are *required* to use graphing calculators on the Advanced Placement (AP) Calculus Examinations. *Get yours now!*

scientific calculators

HP 22S



Closeout Sale!

easy-to-use algebraic logic in a powerful scientific-technical calculator

- you use friendly SOLVE button on equations—16 in a built-in library, plus add your own—instead of programming
- you have menus, alphanumeric display and more annunciators to simplify and speed your work
- you get 200+ scientific and statistical functions and conversions—16K ROM with 371 bytes of RAM power.

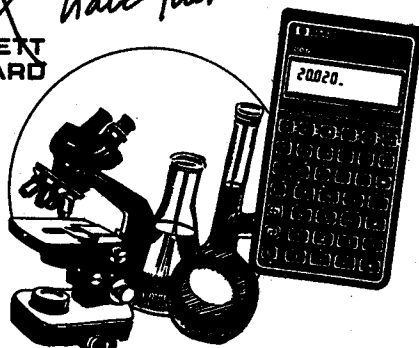
Brand new HP 22S includes 194 pages spiralbound Manual and vinyl case; lacks original box.

Stock #HP22S [Scientific Calculator] List \$70 \$29.95

HP 20S



have this



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 | ■ Keystroke Programming— |
| ■ equation solver | ■ 99 program steps |
| ■ curve fitting | ■ 10 storage registers |
| ■ quadratic equations | ■ conditional tests & branching |
| ■ complex number operations | |
| ■ numerical integration | |
| ■ 3 × 3 matrix operations | |

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

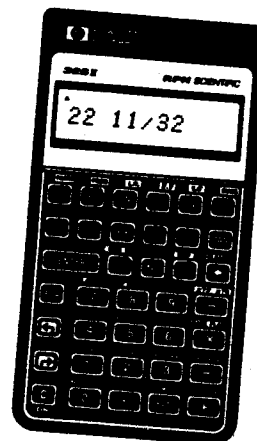
HP 32SII



'Algebraized' Model

- **Real Programmability**
- **Real HP RPN**
- **Algebraic HP Solve Application**
- **Algebraic Equation Entry/Evaluation**
- **Unit Conversions**
- **Fractions**

*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/minutes-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 batteries, stands & cases: see pp 30-32

Tips and Programs for the HP 32S

by

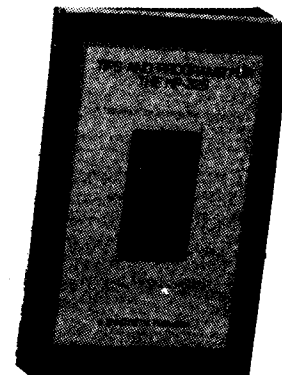
W.A.C. Mier-Jedrzejowicz

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.

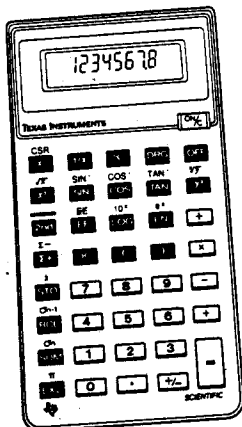
Stock #2014, HP 32S Tips & Programs, 81p spiralbound . . \$7.95



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, permutations.

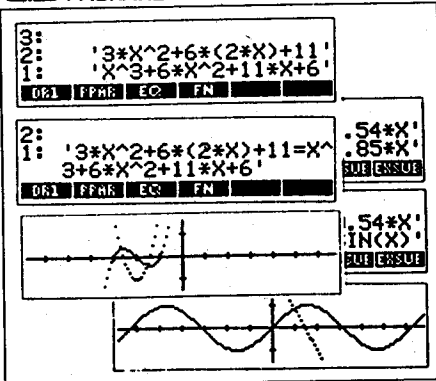
10 digits with 2-digit exponent. Automatic Power Down. Durable Slide Case, Manual and Quick Reference Card included; 1 yr warranty.

Version SE is ruggedized for field or classroom use.

Stock #TI30X [Calculator] List \$18 . . . \$14.95

Stock #TI30XaSE [Rugged Calculator] . . \$17.95

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:

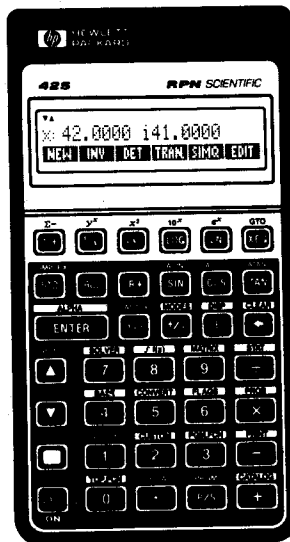
Stock #603, Algebra & College Math 90101 \$9.95
Stock #604, Vectors & Matrices 90105 7.95 \$9.95
Stock #605, Calculus 90102 7.95 \$9.95
Stock #606, Probability & Stat 90104 7.95 \$9.95
Stock #607, Math Applications 90111 7.95 \$9.95

HP 42S

Engineered for the Engineer
SuperFast RPN Scientific



HEWLETT
PACKARD



- **Shirt-pocket power**—more than 600 functions built into 64K ROM, 7.2K of user's RAM, 2 line x 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 x 3 x 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.

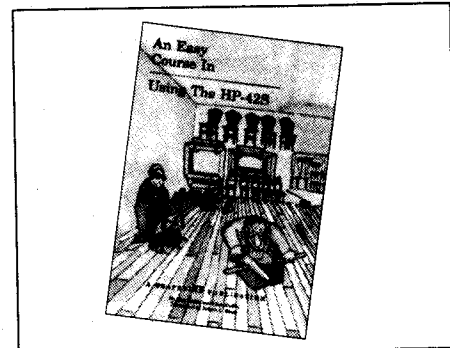
Stock #HP42S [Calc] List \$120 . . . \$89.95

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. 384p, spiralbound.

Stock #2181, Easy Course/HP 42S, . \$19.95



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

Solution Books for your HP 42S



In Equation	Description	In Program
I_T	Terminal current (amps).	1.T
I_2	Current in Impedance Z_2 .	12
Z_1	Impedance ₁ (ohms).	21
Z_2	Impedance ₂ (ohms).	22

$$I_2 = \frac{Z_1 I_T}{Z_1 + Z_2}$$

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



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

D'Zign

- 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 . . . \$24.95

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 Alignment, 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.

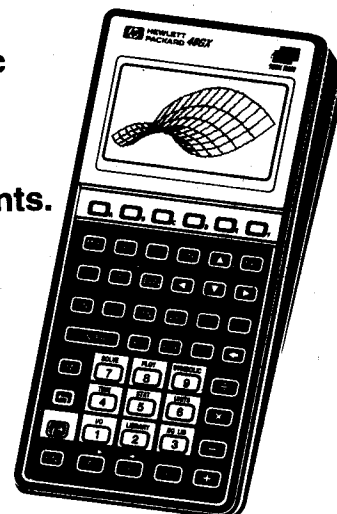
Stock #2207, 42S Triangle Solutions Booklet . . . \$9.95

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 graphic 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 —



HP48 Graphic Calculator

- 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).

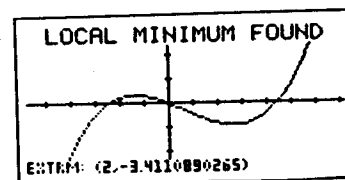
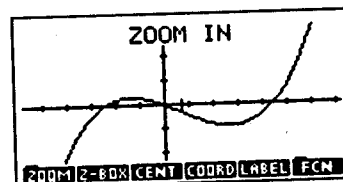
You'll have the world's best interactive calculator graphics. You'll have a beautifully-planned keyboard with well-engineered tactile feedback. *Isn't all this the kind of I/O power you've needed?*

- 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.

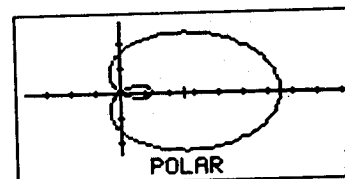
You'll have a Review mode, plus the ability to edit the stack, matrices, etc, so you'll have rapid, correct data and program entry.

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?*

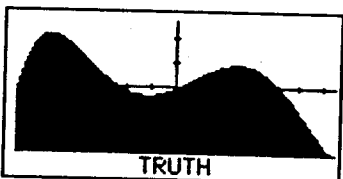
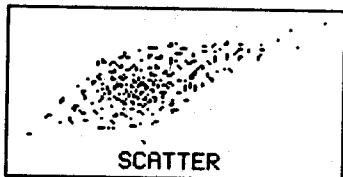
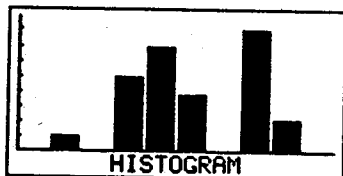
$$\frac{1}{\sqrt{2}\pi} \sum_{n=0}^{100} \frac{\sin(n \cdot \omega \cdot t)}{n}$$



1 HOME 3 05/24/89 05:03:23F
 4:
 3: "HP 41 → HP 48SX"
 2: "
 1: " HP 28 → HP 48SX"
 PR1 PR2 PR3 PR4 PR5 PR6 PR7 PR8

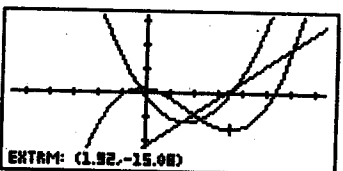


HP 48G/GX graphic/expandable



$$P = \frac{(0.0821 - \frac{1}{K \cdot \text{mol}}) \cdot n \cdot T}{V}$$

STD FIN SOL ENG SYM KEEP



Send to HP 48...
Get from HP 48...
Print display
Print...
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: 5 FINAL:
STEP: Df1t TOL: .001 _STIFF
ENTER INITIAL SOLUTION VAR VALUE
EDIT INIT SOLVE

Integrate...
Differentiate...
Taylor poly...
Isolate var...
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 \$265 \$209.95
Stock #HP48G [Graphic Calculator] List \$135 \$99.95 \$106.95

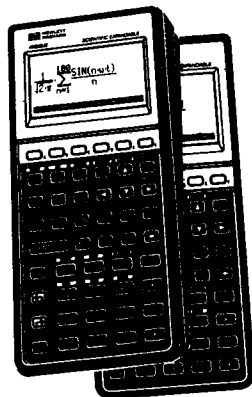
HP 48 series

here's where you find . . .

accessories
cables/interfaces
peripherals
software
programming aids
bookware

48
50
50
51
60
62

Trade **I**n **P**rogram
Save even more..



TRADE IN your used HP 41CV/CX or HP 48SX. Just send it to us, insured, in working order, with all its Manuals. Take CREDIT on your Order—\$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.

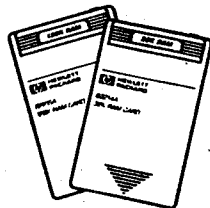
accessories

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



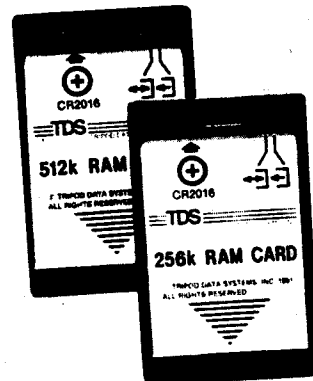
Memory Expansion Card for HP 48GX only



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



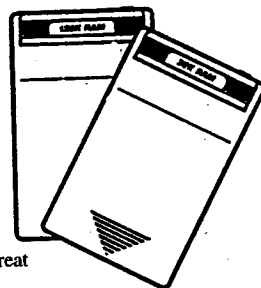
Battery-backed RAM Cards for SX/GX



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 #2475A [256K RAM card for 48GX] List \$160 . . . \$149.95
Stock #2476A [512K RAM card for 48GX] List \$240 . . . \$219.95

Battery-backed 256K & 512K RAM Cards for your HP 48GX

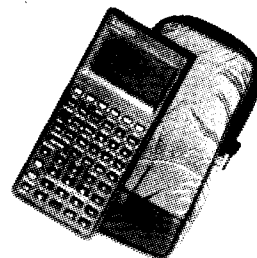


EPSON

Add more memory to your HP 48GX at this great low price. While supplies last.

Stock #3096 [48 RAM, 256K card] . . . \$139.95
Stock #3097 [48 RAM, 512K card] . . . \$199.95

Extras for your HP 48 like those that came with the product



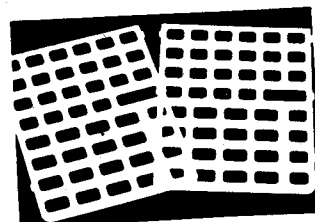
Stock #2787, HP 48G/GX User's Guide . . . \$24.95
Stock #2250, HP 48S/SX Owner's Manual . . . \$24.95
Stock #2251, Equation Library Owner's Manual . . . \$9.95
Stock #82221A [HP Soft Case] . . . \$14.95
Stock #AAA [Alkaline Battery] uses 3 . . . ea \$8.95

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



HP 48S/SX (used Scientific Calculators):
call EduCALC for great savings on used units.

HP 48 series

accessories continued

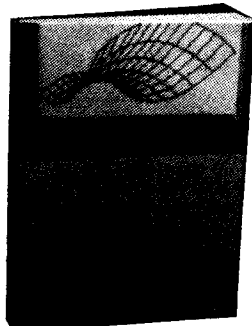
HP 48 Accessories for S/SX/G/GX

Stock #2249 [Solid Oak Stand]	\$16.95
Stock #2252 [Clear Acrylic Stand]	\$11.95
Stock #2225 [Hard Leather Case]	\$42.95

Mastering the HP 48G/GX

by Thomas Adams

New



A step-by-step (*really!*), easy-to-read (*really!*) introduction (*really!*) to operating and programming the 48G/GX.

Many, many examples will guide you. Adams anticipates the problems you have and shows you the way in an easy-to-follow sequence of instruction.

At the end you'll be happily programming your 48 with flags and loops, tests and branching.

Stock #3279, Mastering HP48G/GX, 193p softbound \$29.95

An Easy Course in Programming the HP 48G/GX

GRAPEVINE PUBLICATIONS, INC.

An Easy Course in
Programming the
HP 48G/GX



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

cables/interfaces

Serial Interfaces—Kits & Cables— for PCs and Macs

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 key-board 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. DOS and Windows compatible. Comes with instructions, computer software on 3.5" disk.

Stock #F1201A [PC Serial Interface Kit] List \$53	\$42.95
Stock #F1015A [48/95/100/200 to DB9 Cable, 6'] List \$35	\$24.95
Stock #F1023A [Serial Cable Adapter Kit]	\$24.95
Stock #F1016A [Mac Serial Cable only] List \$35	\$24.95



HEWLETT
PACKARD

HEWLETT
PACKARD

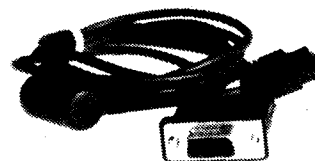
Experimenter's Serial Cables for S/SX/G/GX

Engineers Hobbyists
Instrument Makers

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



CalcWare Link for the PC & Mac

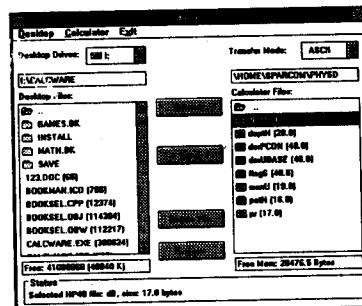
Sparcom
CORPORATION

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. Incl. serial cable, 3.5" disk.

Stock #2953 [DOS/WIN CalcWare] List \$55 \$49.95
Stock #2954 [Mac CalcWare] List \$55 \$49.95



See page 59 for special software offer

peripherals

InfraRed Printer for your HP 48 S/SX/G/GX

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 #82241A [AC Adapter, US] \$14.95

#82241A works with HP 95 or IR printer; twice the physical size of the #F1011A. While supplies last.

Stock #F1011A [AC Adapter for IR Printer, compact size] . \$34.95

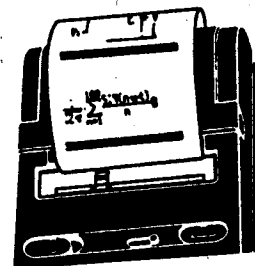
Stock #82175A [2.25" Printer Paper, black, 6 rolls] . . . \$9.95

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

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

Stock #92169G [Cover, black] \$22.95

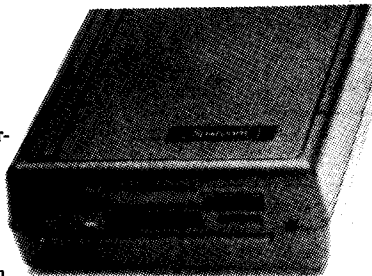
Foreign adapters available — see page 12, palmtops section.



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 \$360 \$323
Stock #2327 [Formatted 3.5" disk, 1.44 MB] each \$2.50

Omnibus^{rel 5} spreadsheet for SX/GX

A general-purpose spreadsheet with data-base capabilities, optimized for storage and retrieval of personal information.

Includes powerful calendar appointment manager support using more than 20 different country-dependent holiday plans and languages.

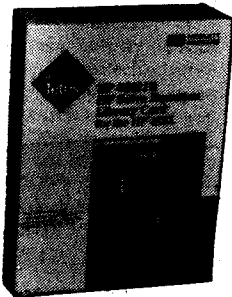
You'll create the interactive applications you want, with NO programming. All programs share a common user interface that's fully integrated with the HP 48 and uses standard RPL programs and functions as spreadsheet macros—so there's NO language to learn.

Supplemental libraries have Financial Functions, Statistical Functions, Data Base Extensions, Graphic Commands, plus Electronic Formulae, Diagrams and Schemes. 80K package includes SmartRom utilities.

Stock #3233 [Omnibus, 3.5"] List \$119 \$89.95

HP Solve-Equation Library Application Card for SX

HEWLETT-PACKARD 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 yours—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] \$29.95

HP 48 series

software

A game card for your HP 48GX

Brand New

**Parsec
Technologies**

Phoenix II & Time Cutters

Fast-paced like arcade games—with bit-mapped graphics and lots of real time action **plus sound!**

Phoenix II is a version of a popular arcade game—you enter secret codes to modify play.

Hapaman is a Pac-man clone. Tetris.

Snake—as he eats food his tail gets longer. You play head to head via IR on two calculators!

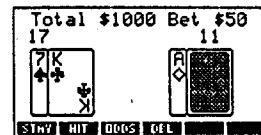
Stock #3095 (LBS Arcade Games, card) \$59.95



Games48 for SX/GX

Sparcom
CORPORATION

- Poker
- Blackjack
- Skunk
- Roulette
- Diamonds
- Sokoban
- Vaders
- Keno
- Reversi
- Slots

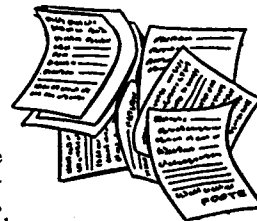


Take a break! Test your reflexes with Diamonds. Solve strategic puzzles in Sokoban. Transform your HP 48SX/GX into a pocket arcade! Includes software on ROM card and manual; 1-yr warranty.

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

HP 48 series

software

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 x 40 system of linear equations in under 4 minutes!
Stock #2694 (Eng/Math Lib, 632 p hrd bnd hndbk & crd) . . . \$139.95

General Application Programs for Engineering Math Library

Requires Stock #2694

Stock #2902 (HP 48 Application Programs, 3.5") . . . \$59.95
Stock #2903 (HP 48 Application Programs, card) . . . \$99.95

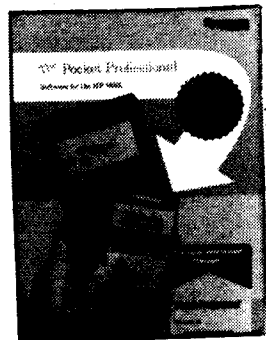
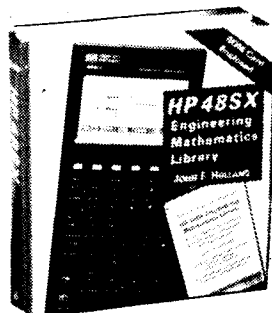
Personal Information Manager

Sparcom
CORPORATION

Application Card instantly makes
your HP 48SX/GX into a
Business Informator

- 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.

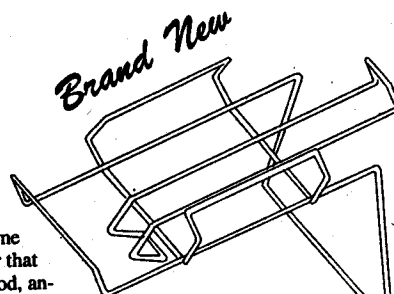
Stock #2323 (Personal Information Mgr, card) List \$100 . . . \$89.95



Clip the HP 48 to your tripod, boat or wall

Dowling

Snap your calculator into this coated-wire frame for a 30" desktop holder that you can clip to your tripod, anchor in your boat or hang from the wall. You'll have your 48 just where you need it when you need it.
Stock #3101 [48 Holder] . . . \$19.95



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.

Calculus Pac for HP 48SX/GX complete with Vector Analysis

- 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.

Stock #2691 (Calculus Pac, card) List \$100 . . . \$89.95



HYDRAtools

solves pipe-flow problems for S/SX/GX/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, 3.5") . . . \$49
Stock #2904A (HYDRAtools, card) . . . \$99

Q FEET	1	2	5	10
STORM				
RAIN	2.50	3.10	4.00	5.00
IRP	0.18	0.14	0.11	0.10
UPP	779.48	797.31	814.19	819.46
RUNOFF	1.00	1.46	2.20	3.00
PEAK	84.76	54.92	84.75	119.29
MSD	TYPE N STORM			
	TYPE EWH			

HYDRMate

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. HYDRMate 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 (HYDRMate, card) List \$249 . . . \$219

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.....		2 D transformations (two dimensions) Inverse student-t Binomial distribution Student-t distr. degrees of freed. $K P(X \leq x) = p$ Rotation about (x0,y0) : X Y: 2 5 : X0 Y0: 2 2 : Φ : 45 LAPLACE TRANSFORMS FOURIER SERIES LINEAR PROGRAMMING	Half range expansion $f(t) = a_0 + \sum \dots$ $\sum b_n \sin(\omega_n t)$ $ay'' + by' + cy = f(t)$ $y(0) = y_0, y'(0) = Dy_0$: a b c y0 Dy0 : 1 3 2 0 1 $f(t) = \text{'SIN(t)'} t$ Laplace transforms $ay'' + by' + cy = f(t)$ Kjisquare distr. degrees of freed. $K P(X \leq x) = p$: K p: 3 0.85 Differential equations
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BRINGSLID®
APPLICATION SOFTWARE

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.

Stock #2670 (Math I, card) ~~\$59.95~~ **\$59.95**

Geometry/Survey 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.

Practical Surveyors' Routines—Slope reduction (horizontal dist.), Excentric station (unknown point), Polar measurement (unknown point), Distance and direction.

Stock #2908 (Geometry/Survey Pac 1, card) **\$109.95**

University Math Pac

with the Symbolic Matrix Writer

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

with the Symbolic Matrix Writer

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**

Calculator Bulletin Board System

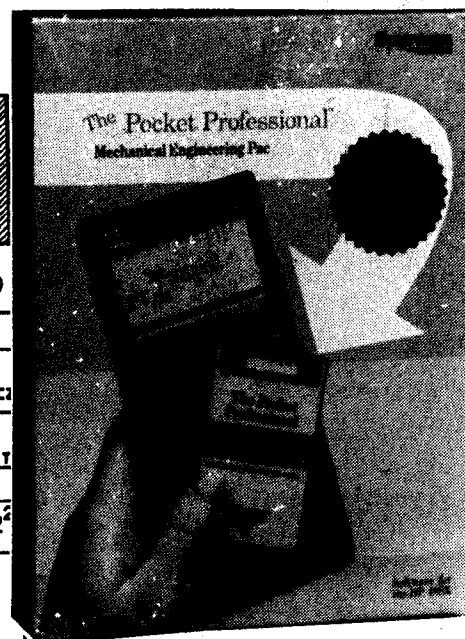
This is an HP service where users and developers can exchange software and information. It operates at 300/1200/2400 baud, full duplex, no parity, 8 bits, 1 stop bit; the phone number is (503)750-4448. This service is FREE; you pay only the long-distance telephone charge. The HP BBS is the best source for programs.

HP 48 series

software continued

HP 48SX/GX Application Cards for ME, EE, Gen Chem, and Math

Sale - \$10 Off
When you buy
an Application Pac &
Reference Library together
for ME, EE, or Chem

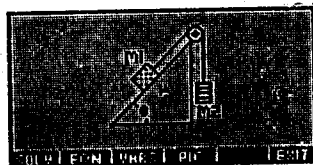


Sparcom
CORPORATION

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.

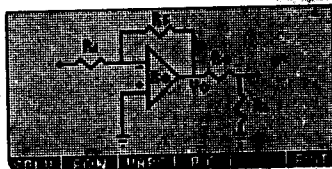


Stock #2290 (ME Applications, card) List \$100 \$89.95

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 #3328 (ME Applns & Ref, 2 cards) \$169.90

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.



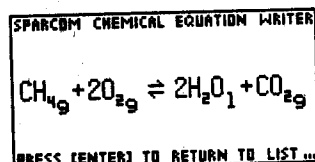
Stock #2292 (EE Applications, card) List \$100 \$89.95

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, dielectric and magnetic properties, thermal conductivity and resistance, current capacity.

Stock #2293 (EE Reference, card) List \$100 \$89.95
Stock #3329 (EE Applns & Ref, 2 cards) \$169.90

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

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 #3330 (Chem Applns & Ref, 2 cards) \$169.90

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 Laplace in polar, rectangular and spherical coordinates. Fourier, Laplace and Z transforms.

Stock #2324 (Math Applications, card) List \$100 \$89.95

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

PocketProfessional®
Plug-in Card Software for HP 48GX/SX



\$7.50 Rebate



Limited time offer for Sparcom's
Pocket Professional Software.
Details on back!

For USA and Canada. Coupon in box—
order before October 31st

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CORPORATION

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

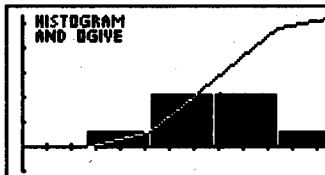
Statistics Pac

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.

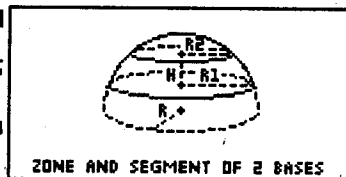
Enter and store raw data with Matrix Manager, then transform it to grouped data with a few keystrokes. Move large data sets from PC to calculator and back to PC with automatic translation.

Stock #2743 (Statistics Pac, card) List \$100 \$89.95

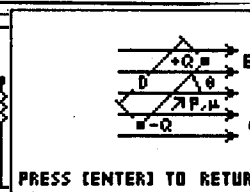
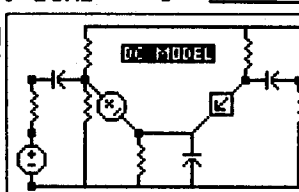


Column: 1
Minimum: 0
Maximum: 100
Bin Width: 20
No. Bins: 5

INTEGRALS
0: 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



CADU



*Save it 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 below, 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 #2598SX (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 handbook—high-speed problem-solving for EE professionals and students.

Over 1000 equations and analysis routines with reference data—including 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

Sparcom
CORPORATION

HP 48 series

tripod survey software

TDS Survey Pro Hot new tool from TDS! for the most demanding users.

TDS' most powerful surveying program yet for the HP-48GX. Turns your 48 into a powerful electronic or manual data collector and field computer containing all the functionality of the TDS Survey Card plus a wide range of functions for use in construction layout operations.

- Calc coordinates with each topo or traverse shot, store Raw Data.
- Radially stakeout offsets (by station and offset) or slope stakes from horizontal and vertical alignments.
- Solve horizontal, vertical and straight grade curves, solve for Elevation at unknown Station or the reverse; layout by deflection angle from PI or PC, tangent offsets or chord offsets.
- Enter direction, distance, angle by PT# - PT# (- PT#).
- Learn your way around with Menu and Screen interface.
- Expert users jump from screen to screen with HOT KEYS.
- Popup description table.
- Adjustments and Solars.
- Coordinate Geometry calculations: inverse, intersections, resections, predetermined area, area and more.
- Traverse with Angle Right or Azimuth. User defined traverse and stakeout error traps.
- Control File (two jobs simultaneously interactive!!)
- Supports almost all total and semi-automatic total stations (even robotics). Use any digital electronic level (or manual three wire entry) for level loops or staking. Even Criterion Laser.
- Topo by Station and Offset.
- Layout Building Pads, Automated Cross Section Survey for volumes.
- Work in FEET or METERS.
- Compatible with all the leading engineering software.

Stock #3326 [Survey Pro Card for 48GX] List \$995 \$799

TDS48-GX Survey Card TDS' best selling data collector software

This is the stalwart of TDS' data collection programs. For users who do not need to collect data from a digital level, do not need the Survey Pro's cross section topo by station and offset, and building pad layout, do not use an alphabetized Pop-Up description table, or define road centerlines with horizontal and vertical alignments, this card is for you. All the curve solutions, all the off center shot options, all the multiple repetition options for Traverse shots. Stake by station and offset from a Point-List which defines the centerline. Or slope stake offsets from the centerline. Use the Direct Record mode for topo without touching the data collector. Also has Direct Function Access Keys.

Stock #2775 [Survey Card for 48GX] List \$595 \$459.95
Stock #2239 [Survey Card for 48SX] List \$550 \$459.95

TDS Contractor Card

new tool specifically for construction applications

This card is designed specifically for contractors and construction workers who don't need the full surveying functionality, but need to layout their construction sites or add to the surveyors' work. Supports almost all total and semi-automatic total stations (even robotics). Use any digital electronic level (or manual three wire entry), even Criterion Laser, for Level Loops or Staking. Topo by Station and Offset. Layout building pads. Automated Cross Section survey for volumes. The Contractor Card also includes many basic surveying functions. Compatible with all the leading engineering software.

Stock #3327 [Contractor Card for 48GX] List \$750 \$599

TDS COGO Card

A full function Coordinate Geometry card. Has Traverse / Sideshot, full curve solutions including horizontal, vertical and straight grade. Triangle solutions, Area, Pre-Determined Area, Point Stake, Intersections, Inverse by points, coordinates or line, Resections, Corner Angles, Remote Elevation, Earth Work including Average End Area, and Survey adjustments are all included.

You won't find a more power packed COGO card at this price, anywhere!

Stock #2266 [COGO Card for 48SX/GX] List \$155 \$124.95

TDS Accessories used with TDS Survey Pro, Contractor, and Survey Cards:

Stock #2261 [Tripod Bracket] List \$75 \$69.95
Stock #2253A [Cable, Sokkia/Topcon] List \$80 \$69.95
Stock #2254A [Cable, Nikon Topgun] List \$80 \$69.95
Stock #2255A [Cable, Zeiss] List \$80 \$69.95
Stock #2256 [Cable, Pentax] List \$100 \$89.95
Stock #2257A [Cable, Geodimeter] List \$100 \$89.95
Stock #2258 [Cable, Kern] List \$80 \$69.95
Stock #2260 [Cable, Wild/Leica] List \$100 \$89.95

Structural Analysis Card for the HP-48SX/GX

General Beams, 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 [Struct Analysis, card] List \$125 . . . \$109.95



PC Software from TDS

TDS Easy Survey Plus a powerful program for field and office work

Use virtually the same menus, screens and functions on your office PC as you use in the field with TDS Cards.

Includes all data collection functions, extended COGO, Street Intersection Layouts, Contour Mapping, Advanced Road Layout, Least Squares Adjustment and Plotting. All these functions are displayed in VGA color graphics for ease of use.

Contains a powerful, easy to use Auto Line-Work function; with a few codes entered in the field, you can select your line-work and later automatically create the plat with Easy Survey Plus.

Easy Survey Plus comes with TDS TFR File Transfer and Conversion Software.

Easy Map Plus has everything Easy Survey Plus has except Contour Mapping and Least Squares Adjustment. Perfect for field laptop computers being used as data collectors.

Stock #2932 [Easy Survey Plus, 3.5"] List \$995 \$659
Stock #3069 [Easy Map Plus, 3.5"] List \$545 \$449

TFR File Transfer and Conversion PC Software

Transfer raw data, point lists and coordinate files back and forth from your office PC to your data collector. Edit Raw Data, process new coordinates from the edited data, and convert the data format to be compatible with one of two dozen other surveying and CAD based software packages.

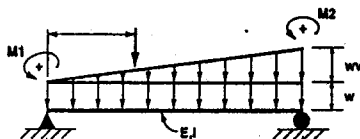
For example, back in your office you discover that your rod man changed the rod height during the job, but neglected to make the change in the 48, so elevations are wrong from that point on. No problem—you can edit it in the PC using TFR and re-calculate the points elevations automatically!

You'll need the 48-to-PC Serial Cable (#F1015A).

Stock #2278 [TDS TFR, 3.5"] List \$250 \$224.95

Structural Engineering Program Card for the HP 48SX/GX

SMI



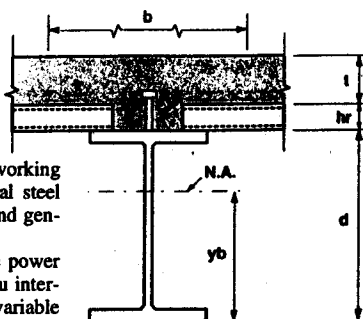
Aids and tools for your design work — 8 user-interactive programs and a database (for 415 AISC 9th edn shapes).

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, rectangular concrete columns.

Stock #2875 (HP 48 Structural Eng Programs, card) . . . \$134.95

Structural Engineering Equation Card for the HP 48SX/GX

SMI



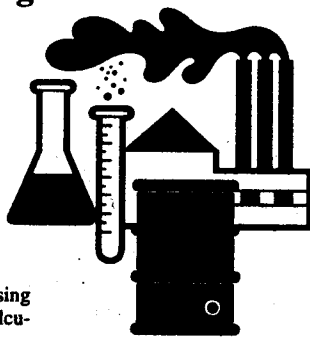
Analysis and design tools for the working engineer—covers topics in structural steel design, reinforced concrete design and general structural analysis.

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 Equations, card) . . . \$134.95

Petroleum Engineering Application Package on ROM card for SX/GX

Petroleum
Application
Systems



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

HP 48S/SX (used Scientific Calculator):
call EduCALC for great savings on used units.

Surveyor's Software ROM Cards for the HP 48SX/GX

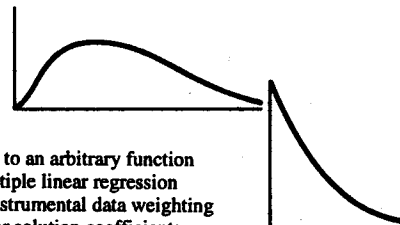
SMI

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

HP 48 Regression Analysis Package for S/SX/G/GX

Monosmith



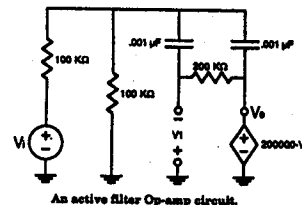
- Nonlinear regression fits data to an arbitrary function
- One or two dimensional multiple linear regression
- Implements statistical and instrumental data weighting
- Calculates probable errors for solution coefficients
- Plots both data and the solution function
- Solves for up to 16 fit parameters
- 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



An active filter Op-amp circuit.

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.

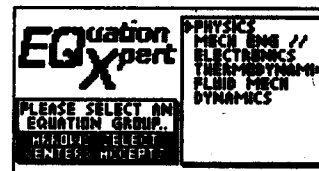
Uses about 40 bytes of memory per component, so you can analyze fairly large circuits with only 32K of RAM.

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

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

Read our mail from Manitoba—

"By taking the time to fax me a few of the relevant pages from the required calculator manual, you not only saved me a considerable shipping charge by negating the need to use a courier service delivery to Canada, I also had the information I needed quickly. Incidentally, the calculator manual I ordered did arrive parcel post in less than a week." Tom Tessier, Winnipeg

HP 48 series

software continued

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!!!

Complete, 91-p manual takes you through 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

SURVcalc v. 2.5 surveying software on ROM card for HP 48 SX/GX

*Introductory
Sale*

Cartesian
Systems

*Free - PC to SURVcalc
file conversion utility on disk*

Now in *manual data entry* or *total station* format (works with most RS 232 models of Geodimeter/Geodolite [400 & newer], Leica/Wild, Nikon/Top Gun, Pentax, Sokkia/Leitz, and Topcon).

Both formats contain well-designed COGO routines combined with *continuous* horizontal and vertical alignment routines. The total station format will also do electronic data collection, coordinate layouts, alignment (station/offset) layouts, 2-print resection and clearances.

Requires PC or Mac 7.x with Apple File Exchange, serial interface cable, HP 48SX with min 128K RAM card or HP 48GX. User's Manual and free Tech Support (on toll phone line) included.

Stock #3331 (SURVcalc Manual Entry) \$134.95
Stock #3332 (SURVcalc Total Station) \$219.95

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 65 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 Biorythm, 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 quoted; 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.

No. 10: The most advanced hacker's tools available, including: Library Assembler/Disassembler, Assembly and SRPL Assembler/Disassembler (JAZZ), Programmer's GROB and Grayscale Tools, SRPL/Assembly Articles, super moving 3D GROBS, super editors, packers/unpackers, port search and copy.

Stock #GD1A (HP 48 Goodies Disk No. 1, 5.25" HD)	\$.495
Stock #GD2A (HP 48 Goodies Disk No. 2, 5.25" HD)	\$.495
Stock #GD3A (HP 48 Goodies Disk No. 3, 5.25" HD)	\$.495
Stock #GD4A (HP 48 Goodies Disk No. 4, 5.25" HD)	\$.495
Stock #GD5A (HP 48 Goodies Disk No. 5, 5.25" HD)	\$.495
Stock #GD6A (HP 48 Goodies Disk No. 6, 5.25" HD)	\$.495
Stock #GD7A (HP 48 Goodies Disk No. 7, 5.25" HD)	\$.495
Stock #GD8A (HP 48 Goodies Disk No. 8, 5.25" HD)	\$.495
Stock #GD9A (HP 48 Goodies Disk No. 9, 5.25" HD)	\$.495
Stock #GD10A (HP 48 Goodies Disk No. 10, 5.25" HD)	\$.495
Stock #GD1B (HP 48 Goodies Disk No. 1, 3.5" HD)	\$.495
Stock #GD2B (HP 48 Goodies Disk No. 2, 3.5" HD)	\$.495
Stock #GD3B (HP 48 Goodies Disk No. 3, 3.5" HD)	\$.495
Stock #GD4B (HP 48 Goodies Disk No. 4, 3.5" HD)	\$.495
Stock #GD5B (HP 48 Goodies Disk No. 5, 3.5" HD)	\$.495
Stock #GD6B (HP 48 Goodies Disk No. 6, 3.5" HD)	\$.495
Stock #GD7B (HP 48 Goodies Disk No. 7, 3.5" HD)	\$.495
Stock #GD8B (HP 48 Goodies Disk No. 8, 3.5" HD)	\$.495
Stock #GD9B (HP 48 Goodies Disk No. 9, 3.5" HD)	\$.495
Stock #GD10B (HP 48 Goodies Disk No. 10, 3.5" HD)	\$.495

HP 48 Hacker's ROM

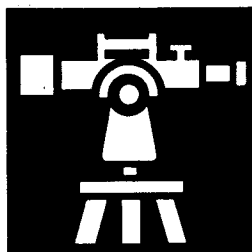
128K of the best of GD10 on an HP 48 ROM card—chiefly the (95K) Jazz library by Mika Heiskanen—selected and compiled by Joseph K. Horn and produced by EduCALC at cost.

Stock #GD10C (HP 48 Hacker's ROM, 128K card) \$39.95

Coordinate Geometry Enhanced survey software cards to slide into your HP 48GX

SMI

Save
\$\$\$\$\$



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 ~~\$110~~ **\$99**

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 ~~\$250~~ **\$239**

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 ~~\$510~~ **\$479**

If you need help in Physics and Math CalcWare

3.5" disk-based software
for HP 48G/GX

Sparcom
CORPORATION

Free Link
Software
offer!

Get yourself new power for your classes—solve problems the easy way with HP 48 software.

All the capabilities of Sparcom's card-based software are here—analysis and reference sections along with all the same equations. Simply download the routines, equations and data you want—no programming necessary.

Downloading requires a serial cable and connectivity software—if you need software, consider the courses below that are bundled with FREE Link, Sparcom's brand for DOS/Windows. Every program is menu-driven, includes help text, comes on 3.5" diskette.

- **Mechanics & Thermodynamics**—Angular/Fluid/Linear Mechanics, Friction and Drag Forces, Gravitation.
- **Electricity & Magnetism**—Circuit Elements, R/L/C Circuits, Electric Fields, Magnetism, Vectors.
- **Optics, Waves & Relativity**—Astronomy, Electromagnetic Waves, Optics, Oscillations, Quantum Mechanics.
- **PreCalculus**—Algebra, Arithmetic, Geometry, Trig, Triangle, Polygons, Spheres, Circles
- **Calculus**—Integrals, Hyperbolics, Series, Vectors, Derivatives, Transforms, Coordinate Systems, Special Functions.

Stock #3299 (Mechanics & Thermo) **\$49.95**

Stock #3300 (Mechanics & Thermo + Link) **\$49.95**

Stock #3301 (Electricity & Magnetism) **\$49.95**

Stock #3302 (Optics, Waves & Relativity) **\$49.95**

Stock #3266 (PreCalculus) **\$49.95**

Stock #3303 (PreCalculus + Link) **\$49.95**

Stock #3267 (Calculus) **\$49.95**

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 interactive 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

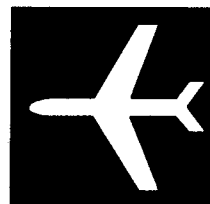
Celestial Features

- Almanac: Sun, Moon, Planets, Aries, 58 Nav Stars
- Automatic Sight Timing (internal chronometer)
- Automatic Sextant Corrections
- Finds/Solves Known or Unknown Celestial Sights
- 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**

Flight Navigation System

BRINGSLID[®]
APPLICATION SOFTWARE



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 receivers using NEMA protocol 0183-GGA via RS-232.

Stock #2831 (Flight Navigation, card) **\$119.95**

AP-View for HP 48 SX/GX



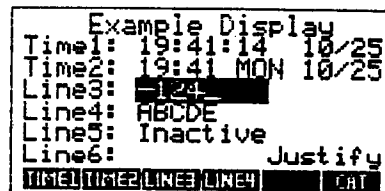
Give your programs a PC-style screen and keyboard interface—with these 24 integrated utilities you can run your programs entirely through the 48's PICT display environment.

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**

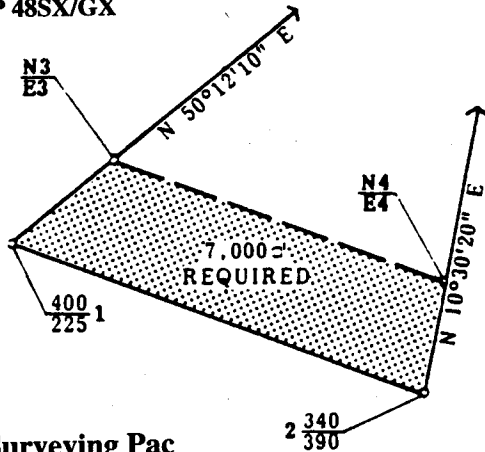


HP 48 series

software continued

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

Alignment Pac (32K ROM card, piggyback for #2793) Stake out any station, or an offset to any station, along an alignment from any known point without precalculating the coordinates; US or metric. Card goes in second port with #2793 in first.

Stock #3324 (Alignment Pac, card) \$95

Angle Right Radical Stakeout (supplement to #2793) a version of SPRAY program that outputs in angle right instead of azimuth. Requires Ketmit, PC and serial cable to install.

Stock #3323 (Angle Rt. Rad. Stakeout, 3.5") \$9.95

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.

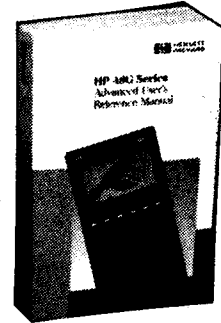
Features free updates and unlimited free support for users. You may program as many calculators as you like with it—merely buy additional manuals at about \$40 each to register for the freebies (and to conform to U.S. copyright law, and to give the workman his due).

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

programming aids

Advanced User's Reference Manual for HP 48G/GX



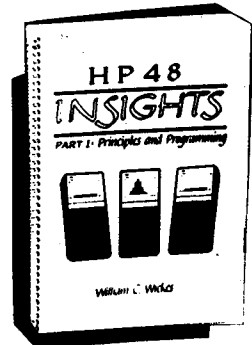
Called AUR in your Owner's Manual—has programming examples, covers Commands, Error & Status Messages, Units, Flags, List Processing.

Stock #2789, 48G Adv User's Ref, 745p softbound \$19.95

**HP 48S/SX (used Scientific Calculators):
call EduCALC for great savings on used units.**

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 Options/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

Read our mail from D.C. —

EduCALC ranks as by far the finest source of handhelds and accessories in the US and possibly anywhere.

I currently own a 71B, three HP 41s (all of which run at 2x speed), an HP110, HP110+, an HP32E, an HP48GX, and most of the accessories for the above.

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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 his machine with a little knowledge about System Programming!

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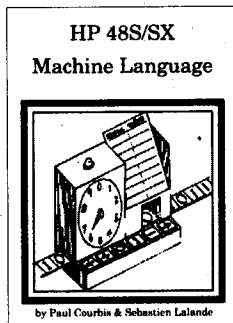
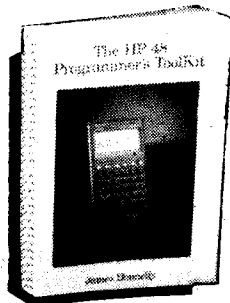
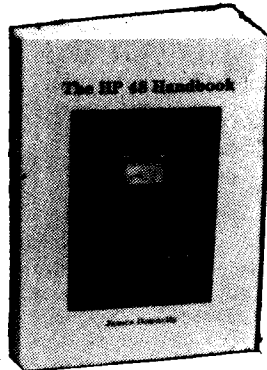
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3	4	S
2	+	A
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HP 48 Programmer's Reference Manual for S/SX

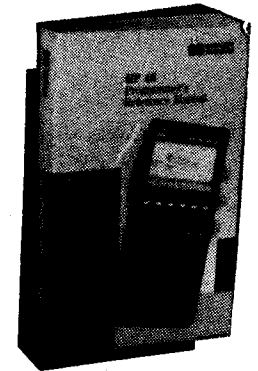
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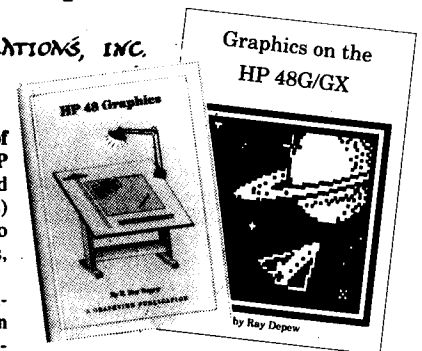
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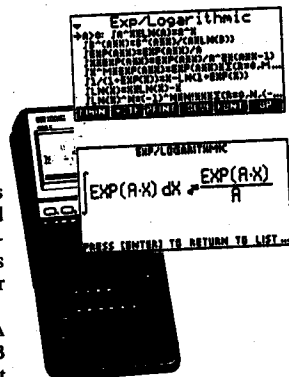
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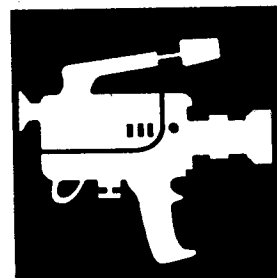


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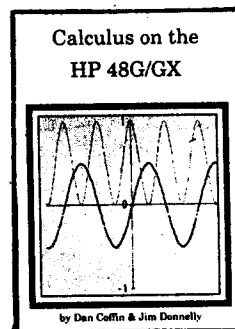
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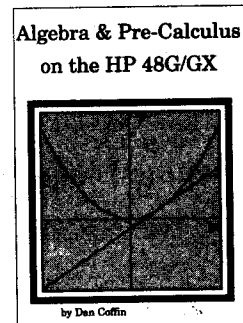
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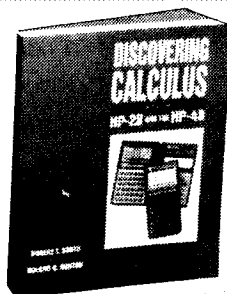
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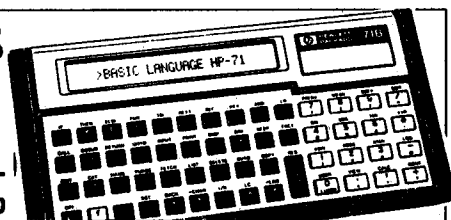
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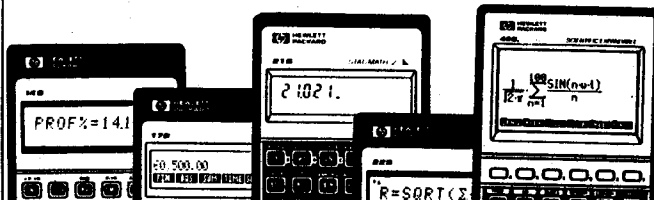
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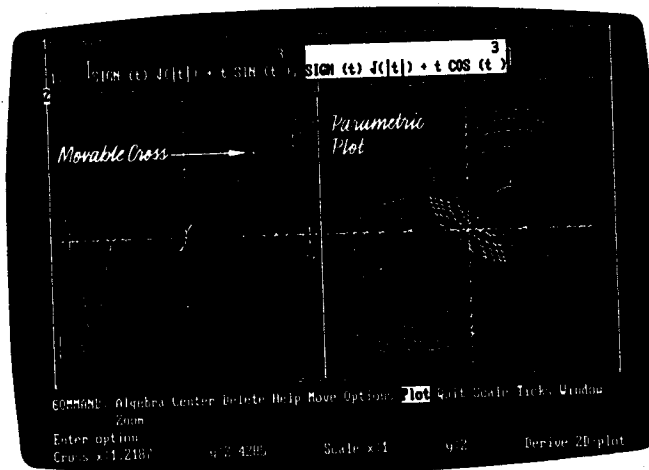
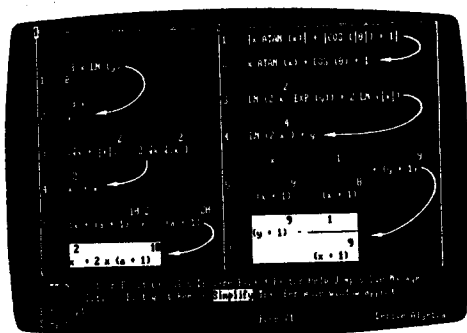
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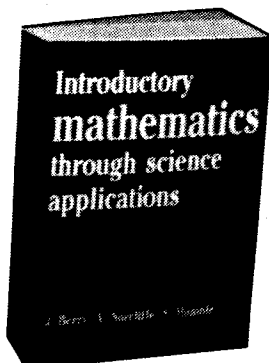
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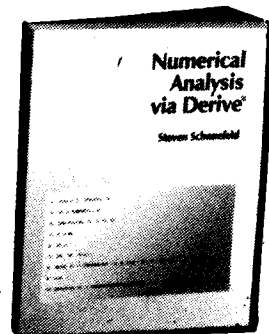
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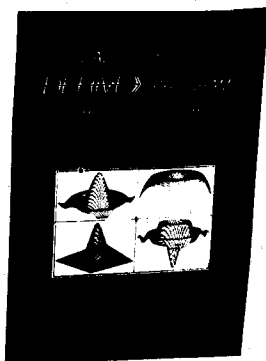
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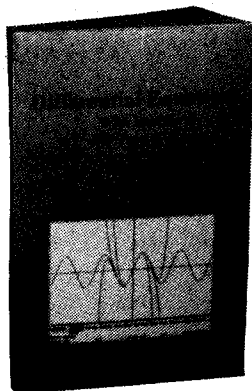
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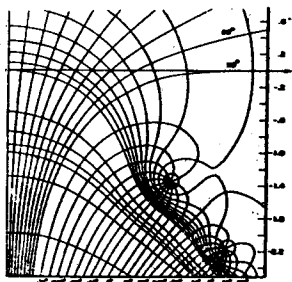
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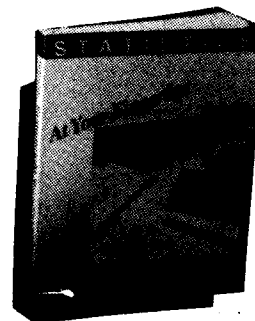
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Stock #2788, HP 100LX Own Man	\$19.95
Stock #3055, HP 200LX Own Man	\$29.95
Stock #2103, HP 82240B Own Man	\$14.95

Foreign-Language Owner's Manuals for HP Calculators

Stock #2370D, HP 10B Manual (Danish)	\$15
Stock #2370F, HP 10B Manual (French)	\$15
Stock #2370G, HP 10B Manual (German)	\$15
Stock #2370I, HP 10B Manual (Italian)	\$15
Stock #2370S, HP 10B Manual (Spanish)	\$15
Stock #2370SW, HP 10B Manual (Swedish)	\$20
Stock #2371D, HP 12C Manual (Danish)	\$20
Stock #2371DU, HP 12C Manual (Dutch)	\$20
Stock #2371F, HP 12C Manual (French)	\$20
Stock #2371G, HP 12C Manual (German)	\$20
Stock #2371S, HP 12C Manual (Spanish)	\$20
Stock #2371SW, HP 12C Manual (Swedish)	\$20
Stock #2372F, HP 17BII Manual (French)	\$20
Stock #2372G, HP 17BII Manual (German)	\$20
Stock #2372S, HP 17BII Manual (Spanish)	\$20
Stock #2373F, HP 19BII Manual (French)	\$49
Stock #2373G, HP 19BII Manual (German)	\$49
Stock #2373S, HP 19BII Manual (Spanish)	\$49
Stock #2374F, HP 28S Manual (French)	\$25
Stock #2374G, HP 28S Manual (German)	\$25
Stock #2374S, HP 28S Manual (Spanish)	\$25
Stock #2375F, HP 32SII Manual (French)	\$20
Stock #2375G, HP 32SII Manual (German)	\$20
Stock #2375S, HP 32SII Manual (Spanish)	\$20
Stock #2376F, HP 42S Manual (French)	\$20
Stock #2376G, HP 42S Manual (German)	\$20
Stock #2376S, HP 42S Manual (Spanish)	\$20
Stock #2377F, HP 48SX Manual (French)	\$20
Stock #2377G, HP 48SX Manual (German)	\$20
Stock #2377S, HP 48SX Manual (Spanish)	\$30
Stock #2787S, HP 48G Manual (Spanish)	\$49
Stock #2787I, HP 48G Manual (Italian)	\$49
Stock #2378F, HP 95LX Manual (French)	\$30
Stock #2378G, HP 95LX Manual (German)	\$30
Stock #2378S, HP 95LX Manual (Spanish)	\$26

Stock #2380G, HP 14B Manual (German)	\$26
Stock #2380S, HP 14B Manual (Spanish)	\$16
Stock #2381F, HP 21S Manual (French)	\$16
Stock #2381G, HP 21S Manual (German)	\$15
Stock #2382I, HP 1L Manual (Italian)	\$50
Stock #2379F, HP 42S Pgm Guide (French)	\$45
Stock #3056S, HP 200LX Manual (Spanish)	\$35

Accessories for Older-Model Calculators & Peripherals

For HP 31E, 32E, 33E/C, 34C, 37E, 38E/C:	
Stock #82109A [Rechargeable Battery Pack]	\$14.95
Stock #82110A [Soft Vinyl Case]	\$4.95
For HP 35A, 45A, 55A, 70A, 75 C/D, 80A:	
Stock #82001B [Rechargeable Battery Pack]	\$14.95
Stock #82059D [Recharger] HP 75 C/D	\$18.95
Stock #82066B [Recharger, 220 volt]	\$22.95
For HP 41:	
Stock #82120A [Rechargeable Battery Pack]	\$32.95
Stock #82059D [Recharger]	\$18.95
For HP 65A, 67A:	
Stock #13143 [80 Magnetic Cards]	\$42.95
Stock #82001B [Rechargeable Battery Pack]	\$14.95
For HP 71:	
Stock #82059D [Adapter]	\$18.95
For HP 97A, 91A, 92A:	
Stock #13143 [80 Magnetic Cards]	\$42.95
Stock #82033A [Rechargeable Battery Pack]	\$24.95
Stock #82059D [Recharger]	\$18.95
For HP 10A/19C:	
Stock #82051A [6 rolls blue thermal paper]	\$11.95
Stock #82052A [Rechargeable Battery Pack]	\$29.95
Stock #82059D [Recharger]	\$18.95
For HP 21A, 22A, 25A/C, 27A, 29C:	
Stock #82019B [Rechargeable Battery Pack]	\$14.95
Stock #82041C [Recharger]	\$21.95
For 82143, 82162 Printers & 82161 Cassette Drive:	
Stock #82033A [Rechargeable Battery]	\$24.95
Stock #82059D [Recharger]	\$18.95
Stock #82175A [2.25" Pntr Paper, 6 rolls]	\$9.95
For HP 2225B ThinkJet Printer	
Stock #82199A [Rechargeable Battery Pack]	\$73.95
Stock #82059D [Recharger]	\$18.95
HP 9114 Disk Drive Supplies	
Stock #88014B [Recharg Batt] List \$93	\$88.95
Stock #LCR6V2 [Replacemnt Batt Pack]	\$22.95
Stock #T-9 [Torx Key]	\$4.95
Stock #82059D [Recharger]	\$18.95

SNAP

Mist Products

Glass & Plastic Cleaner

- Safe—eliminates static charges
 - Clean—repels dust, dirt, smears and water
- Stock #2490 [SNAP Cleaner, 1 oz] . . . \$1.95
Stock #2491 [SNAP Cleaner, 8 oz] . . . \$4.95

save the environment
with remanufactured
Toner Cartridges

Parana

Recycled, contain a long-life drum for superior printing quality, especially with graphics. (HP 92295A is for HP LaserJet II/III, Apple LaserWriter II; HP 92291A is for HP LaserJet IIISI, 4Si and DEC PrintServer 17).

Stock #3338 [Replaces 92295A]	\$69.95
Stock #3337 [Replaces 92291A]	\$99.95

With reconditioned and tested original print drum.
Stock #3336 [Replaces 92295A] \$69.95

save up to 70%
each time you refill
InkJet Refill Kits

Parana

Get the best print quality, the brightest colors and the darkest blacks, and save money, too!
Each kit contained 2 bottles, good for 2-3 refills. Your cartridge can be refilled 6 times or more.

Refilling is fast and easy—even the first time. Kit has patented refilling tools and clear, illustrated instructions.

Stock #3335 [Fills 51608A/33A]	\$24.95
Stock #3334 [Fills 51626A]	\$19.95
Stock #3333 [Fills 51625A]	\$29.95

save save save
**Hammermill
Jet Print Paper**

- ink jet
- copier
- laser jet
- fax

Delivers sharp, clear images because it's a brighter white with a jet-smooth surface. Because it's Hammermill.

Stock #3339 [500 sheets, 8.5 × 11"] \$14.95

Thank you for your order!

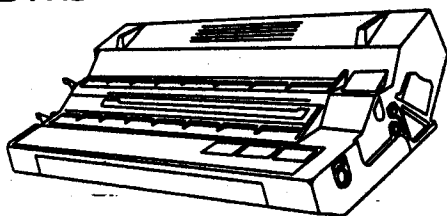
PC/Printer Cables

Stock #C2912B [Parallel Cable] List \$27	\$22.95
Stock #C2913A [Cable] List \$18	\$12.95

ThinkJet Supplies

Stock #92261A [Printhead Cart] List \$13	\$11.95
Stock #51604A [Cart, Pl Pap] List \$13	\$11.95
Stock #51605B [Cartridge, Blue] List \$16	\$14.95
Stock #51605R [Cartridge, Red] List \$16	\$14.95
Stock #92261N [Paper, 2500 shts] List \$80	\$74.95
Stock #51630A [Jetpaper, Z-fold, 500 sheets] List \$25	\$21.95
Stock #51630D [Jetpaper, Wide Z-fold, 2500 sheets] List \$95	\$86.95

HP calculator printer & plotter supplies



LaserJet Toner Cartridges—give your printed documents dark black coverage, sharp edges and fine lines. That's because they have a *brand new photosensitive drum*, a *new cleaner blade* and a *new charge roller* as well as *genuine HP toner*.

Don't run out—buy yours now!

Stock #92285A [LJ Ser. I Toner, black] List \$147	\$99.95
Stock #92295A [LJ Ser. II, III, IID & IIID Toner, black] List \$125	\$79.95
Stock #92295M [LJ MICR, Ser II, IID, III, IIID] List \$169	\$129.95
Stock #92275A [LJ Ser. IIP, IIP+, IIIP Toner, black] List \$120	\$84.95
Stock #92291A [LJ III Si Toner, black] List \$178	\$117.95
Stock #92282A [LJ 2000 Toner, 2.5 kg] List \$90	\$74.95
Stock #92298A [LJ4, 4 Plus, 4M Plus Toner, 6000 pages] List \$151	\$99.95
Stock #92274A [LJ4L, 4P 4ML, 4MP Toner] List \$101	\$85.95
Stock #C3903A [LJ5P, 5MP Toner, black] List \$109.50	\$96.95

LaserJet Memory—allows more and larger fonts to be downloaded, complex graphics, even elaborate spreadsheets. *Designed so you can install it, quick and easy.*

Stock #33474B [1MB board; LJ IIP, III, IIIP/D] List \$169	\$154.95
Stock #33475B [2MB board; LJ IIP, III, IIIP/D] List \$279	\$249.95
Stock #C2063A [1MB SIMM, LJ IIISI] List \$119	\$109.95
Stock #C2065A [4MB SIMM, LJ IIISI] List \$279	\$249.95

LaserJet Transparencies and Labels—the *only* film specifically engineered and tested for your HP LaserJet. It feeds with ease and *eliminates fuzzy graphics, blurry words and darkened background.*

Stock #92296T [LJ Transparencies, 50 each] List \$25	\$22.95
Stock #92296A [LJ Labels 1" x 2-5/8", 3000 each] List \$32	\$28.95
Stock #92296B [LJ Labels 1-1/3" x 4", 1400 each] List \$32	\$28.95
Stock #92296C [LJ Labels 1" x 4", 2000 each] List \$32	\$28.95
Stock #92296F [LJ Labels 1-1/2" x 1-3/4", 8000 each] List \$32	\$28.95
Stock #92296J [LJ Labels 1-1/2" x 4", 1200 each] List \$44	\$39.95

DeskJet 660C & 600 Supplies

Stock #51629A [DJ Black Ink Cartridge] List \$32.95	\$30.95
Stock #51649A [DJ Tri Color Cartridge] List \$34.95	\$31.95
Stock #C3834A [Premium Transparency Film, 50 sheets] List \$47.95	\$41.95
Stock #C3836A [Premium Glossy Paper, 50 sheets] List \$59.95	\$52.95
Stock #4533A [Optional Color Kit/600] List \$49	\$42.95

DeskJet 850 & 1600 Supplies

Stock #51641A [DJ Tri Color Cartridge] List \$35.95	\$32.95
Stock #51645A [DJ Black Ink Cartridge] List \$33	\$31.95

DeskJet, DJ PLUS, DJ500 & DeskWriter Supplies

HP Premium InkJet Paper—bright white for sharper text, smooth coated matte surface that *dramatically improves color accuracy and text clarity*—gives presentation quality.

Stock #51636H [Glossy Paper, 8.5 x 11"]	\$54
Stock #51630Y [Cut-Sheet 8.5 x 11"]	\$20.95
Stock #51636F [Transparency Film 8.5 x 11"]	\$52
Stock #51626A [DJ Ink Cartridge] List \$32	\$29.95
Stock #51625A [DJ Tri Color Ink Cartridge] List \$35	\$31.95
Stock #22706B [DJ Prestige Elite Font] List \$79	\$73.95
Stock #22706R [DJ Times Rom Font Cart] List \$79	\$73.95
Stock #22706T [DJ Helvetica Font Cart] List \$79	\$73.95
Stock #22706W [DJ WordPerfect Carts (2)] List \$140	\$132.95
Stock #22707B [DJ 256K RAM Cartridge] List \$175	\$165.95
Stock #22707F [DJ PLUS/500 Epson Emulation Cart] List \$79	\$72.95
Stock #22709A [DW Soft Font Collection] List \$195	\$189

DeskJet 1200C Supplies

Stock #51640A [Ink Cartridge, black] List \$30	\$24.95
Stock #51640C [Ink Cartridge, cyan] List \$35	\$31.95
Stock #51640M [Ink Cartridge, magenta] List \$35	\$31.95
Stock #51640Y [Ink Cartridge, yellow] List \$35	\$31.95

PaintJet & PaintWriter Supplies

Stock #51606A [PJ Ink Cartridge, black] List \$32	\$29.95
Stock #51606C [PJ Ink Cart., red/grn/blue] List \$35	\$31.95
Stock #51630P [PJ Fanfold Paper, 250 sheets] List \$23	\$21.95
Stock #51630Q [PJ film w/sleeves, 50 sheets] List \$70	\$64.95
Stock #51630Y [PJ Cut Paper, 200 sheets] List \$21	\$20.95
Stock #51606B [PJ/PW XL Cyan Ink Cartridge] List \$35	\$31.95
Stock #51606R [PJ/PW XL Magenta Ink Cartridge] List \$33	\$29.95
Stock #51606Y [PJ/PW XL Yellow Ink Cartridge] List \$33	\$29.95

Fiber-Tip Pens

Find your stock number and color below; then fill in order blank like sample here:

Stock #xxxxxx [Fiber Tip Pens, (color), 5 pen package] List \$8 . . . \$6.95

Transparency Pens		Paper Pens		Color
0.3 mm	0.6 mm	0.3 mm	0.7 mm	
#17725T	#17726T	#17825P	#17826P	Black
#17727T	#17728T	#17827P	#17828P	Green
		#17829P		Aqua
#17731T	#17732T	#17831P	#17832P	Blue
		#17833P		Violet
		#17835P		Brown
		#17837P		Yellow
		#17839P		Orange
#17741T	#17742T	#17841P	#17842P	Red

Multi-color, 5 pen package

#17745T	#17744T	#17843P		Red-Violet
#17745T	#17746T	#17845P	#17846P	Bl/R/B/G/Y
#17747T	#17748T	#17847P	#17848P	Bl/B/A/G/Y
#17749T	#17750T	#17849P	#17850P	R/O/Br/Y/Rv

Plotter Paper and Film Glossy Paper: use with HP-7220, 7221,

7225, 7470, 7475, 7550, Color-Pro plotters & with transparency pens	
Stock #17900G [A-size, 8.5" x 11", 100 sheets] List \$16	\$12.95
Stock #17902G [B-size, 11" x 17", 100 sheets] List \$28	\$25.95

Non-Glossy Paper: for all HP plotters; use paper pens.

Stock #17800P [A-size, 8.5" x 11", 50 sheets] List \$5.50	\$4.95
Stock #17801P [A-size, 8.5" x 11", 250 sheets] List \$13	\$11.95
Stock #17803P [A4 Metric size; 250 sheets] List \$13	\$11.95
Stock #17804P [B-size, 11" x 17", 50 sheets] List \$10	\$8.85
Stock #17805P [B-size, 11" x 17", 250 sheets] List \$26	\$18.95
Stock #17802P [A4 size 50 sheets] List \$5.50	\$4.95

Transparency Film A-size, 8.5" x 11", 50 sheets, for plotter listed below

Stock #17700T [HP-7470, ColorPro Plotters] List \$55	\$49.95
Stock #17702T [7220, 7221, 7225, 7475, 7550, 9872] List \$55	\$49.95

Disposable Drafting Pens for vellum or paper

Find your size and color in chart below—please fill in your order blank like the sample here:

Stock #17xxxV [Drafting Pens, (size & color); 4 in pkg] List \$24 . . . \$21.95

Color	0.25mm	fine .35mm	med .50mm	wide .7mm
Black	#17762V	#17763V	#17764V	#17765V
Blu/R/G/Blk	#17932V	#17933V	#17934V	#17935V
Or/Ye/Br/Vi	#17942V	#17943V	#17944V	#17945V
		Blue	Green	Red
Single Color Packages of 4 available in 0.35mm only	#17773V	#17783V		#17793V
Multi-width Package of 4, available in Black only		0.25/0.35/0.50/0.70		#17760V



HP calculator printer & plotter supplies

For your HP DeskJet



HP Premium Glossy Paper

When you want your color output to be picture perfect, this is the paper to select. A new, advanced formula results in a spectacular color range and sharper contrast for crisper text. This quick-drying paper is perfect for photographic and scanned images, reports covers, pre-press proofs, complex graphics, illustrations and more.

Stock #C3836A [Glossy Paper, 50 sheets, 8.5 × 11 in.] . \$52.95
 Stock #C3833A [Glossy Paper, 10 sheets, 8.5 × 11 in.] . \$10.95

HP Premium InkJet Paper

Using HP's Premium InkJet Paper is a great way to take your color documents to the next level. A smooth matte finish makes it ideal for cover sheets, letterhead, graphs, reports and other documents that need to make an impression. And its special coating speeds up drying time and eliminates smudging.

Stock #51634Y [InkJet Paper, 200 sheets] \$17.95

HP Premium Transparency Film

Newly formulated, this premium film is designed to make your presentations, graphs, and charts even more impressive. This easy-to-handle, dependable film won't jam your printer — and produces spectacular color and crisp clean images and text with inks that dry almost instantly. It's the perfect way to communicate your ideas with impact.

Stock #C3834A Transpncy Film, 50 shts, 8.5 × 11 in.] . \$41.95
 Stock #C3828A Transpncy Film, 20 shts, 8.5 × 11 in.] . \$17.95

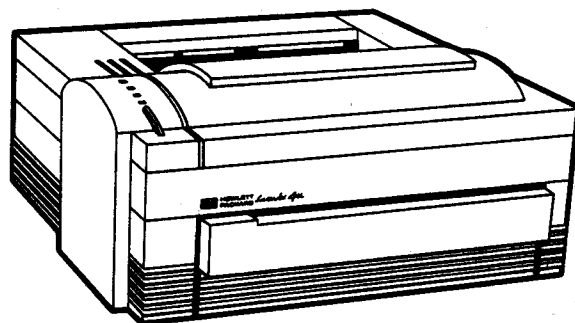
HP PrinterPal

Receive faxes directly from your printer

Plug in the 5" × 5" cartridge into the back of your HP DeskJet printer. It receives faxes directly, and HP includes software for sending faxes directly from your computer. It prints on plain paper with a 20-page buffer, even when your computer is turned off. It even stores faxed messages when the printer is out of paper. And if you don't want to print your fax, you can just review it on your computer screen.

Perfect for the small or home office, it saves space and eliminates the need to buy special fax paper.
 Stock #C2970A [HP DeskJet PrinterPal] List \$199 . . . \$179.95

For your HP LaserJet



HP LaserJet Clear Labels

Designed especially for your HP LaserJet Printer, the matte finish on these labels makes them easy to read so they can be used on any color envelope or file. Non-HP labels don't know your printer's pathways; HP printer labels do and won't jam or cause other problems. They're also made to resist the effects of heat, so they won't melt or smear.

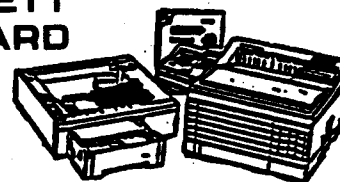
Stock #C4280A [Address labels, 1 × 2 5/8", 30/sheet] . \$42.95
 Stock #C4281A [Address labels, 1 1/3 × 4 1/4", 14/sht] . \$42.95

HP LaserJet Printer Labels

These matte white labels are a practical solution for any size job because you can always count on flawless, trouble-free monochrome output.

Stock #92296A [Address labels, 1 × 2 5/8", 30/sheet] . \$28.95
 Stock #92296B [Address labels, 1 1/3 × 4", 14/sheet] . \$28.95

HP LaserJet Transparency Film



Print overhead transparencies directly from your HP LaserJet printer

Bring the impressive quality of laser printing to your presentations. This film feeds into your printer just like plain paper, eliminating fuzzy graphics, blurry words, and darkened background that often result when you photocopy originals. Because it resists the effects of heat from the printing process, you won't get the wave or ripple patterns that occur with lesser-quality letter-size film.

Stock #92296T [Transparency Film, box of 50] \$22.95

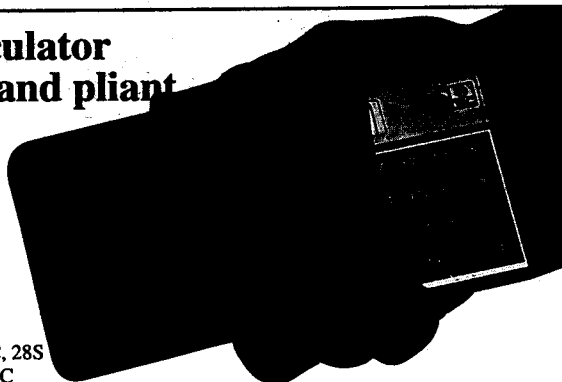
HP Printer Cables

Designed for HP LaserJet printers, these cables ensure solid connections between your computer and your printer. With the HP 25- to 9-pin cable adapter, it's a snap to add new printers to existing networks. Length 9.9 ft.

Stock #C2951A [Parallel Cable, DB-25 pin/36-pin Centronics Male] \$14.95
 Stock #C2946A [Parallel Cable, DB-25 pin/IEEE 1284 Male] \$19.95
 Stock #2809A [Adapter, 9-pin Male/25-pin Female] . . \$12.95

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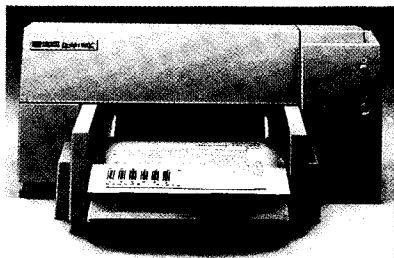
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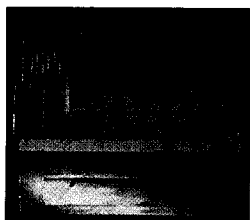
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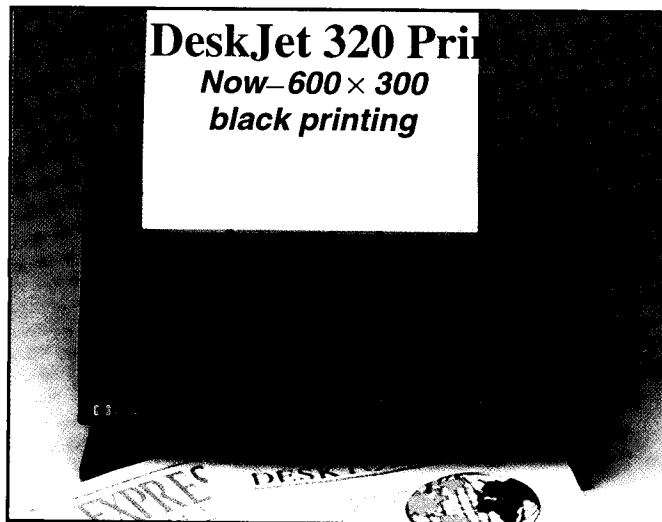
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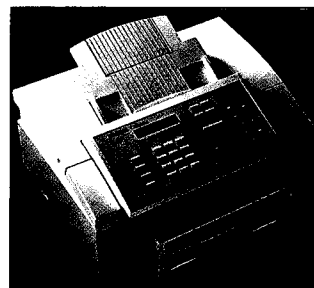
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