EduCALC

HP 41 / 71 / IL

HP 41 Calculators

HP 41CX

HEWLETT PACKARD

▶ **Big Main Memory:** 319 data registers or 2233 bytes of program and data memory.

▶ **Additional Memory:** 124 registers or 868 bytes of 'expanded' memory built-in (optional for the CV with Extended Function/Memory Module).

▶ **Even that is Expandable:** plug in 1 or 2 Extended Memory Modules — each will increase your memory by 238 registers or 1666 bytes—the possible grand total (for all models) is 919 registers or 6433 bytes!

▶ **24K Operating System:** 200 built-in functions at your fingertips (12K system with 128 functions in model CV, expandable to 24K with Extended Functions/Memory Module).

▶ **It is a Clock, Calendar, Alarm, Timer, and Stopwatch:** your HP 41 can become the heart of a time-based system controller (optional with Time Module for model CV).

▶ **Continuous Memory:** programs and data are remembered while your unit is OFF—no need to reprogram it.

▶ **Lots of Software for Your Profession:** there are many Application Pacs **right now**—for math, science, engineering, business and finance, surveying, navigation, etc. See below in this catalog. Plus magnetic cards, cassettes and bar codes to load many other programs, including over 6000 in the Users' Library.

▶ **4 Quick and Easy I/O Ports:** just plug in ROM software modules, memory modules, interfacing and more.

▶ **Take it with you, Anywhere:** it's only 205 g (7.2 oz.). With its LCD display you'll get about 6 months use from a set of alkaline batteries which are included (rechargeable batteries optional).

▶ **RPN Logic:** you see intermediate results of calculations, recover from errors easily.

▶ **ALPHANUMERIC, User-Definable Keyboard:** assign your own programs to any key—use ordinary words for prompts and labels.

▶ **Full Documentation to HP Standards of Excellence:** complete, readable manuals and handy quick-reference guides included.

▶ **You Get the Whole Kit:** tough carrying case, 4 alkaline batteries, keyboard overlay, Users' Library subscription card, Owner's Handbook included.

Stock #HP41CX, List $249 .... **$184.95**
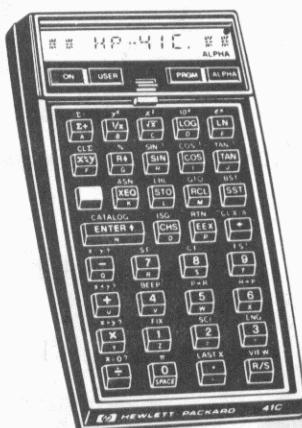
HP 41 Peripherals

HP IL Module

HEWLETT PACKARD

The HP IL Interface Module plugs into any one of the four ports in the HP 41, connecting your handheld computer family of HP IL peripherals and instruments. The module gives your HP 41 control of up to 30 devices on the loop. There are three function sets supplied by the HP IL Module: printer, mass storage, and general input/output (I/O). It includes such functions as Accumulate column into print buffer, List program lines, Print y-axis, Plot function interactively, Print stack, Remove stored file, Store program onto medium, Copy all storage registers into data file, Set interface to auto mode, Input status information from selected device, Set all devices to low power state, Trigger all devices set to respond and 43 more. Owner's Handbook included.

75% Off

Stock #82160A (HP IL Module) List $125 .... ~~$99.95~~ *$29.95*
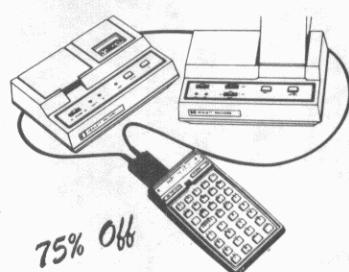
InfraRed Printer
### for your HP 41
with IR Module

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 48SX. 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 for IR Printer] **$14.95**
Stock #82175A [2¼" Printer Paper, black, 6 rolls] **$9.95**
Stock #AA [Batteries, Printer uses 4] .... **ea $.89**
Stock #92169G [Cover, black] **$22.95**
Stock #92169H [Cover, brown] **$22.95**
Stock #92169J [Cover, burgundy] **$22.95**
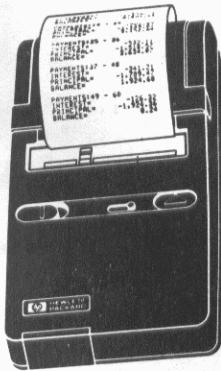
InfraRed Printer Module
for the HP 41

HEWLETT PACKARD

Print via infrared from your 41 — this module just plugs into your instrument. It protrudes about ¼ inch so it can flash printer commands to the 82240 printer. No cables—you merely point and push a button.

The 82240 printer can also be driven by the HP 17, 18, 19, 27, 28 and 42. It is super-portable—small and battery powered, it will fit in a briefcase. This printer is inexpensive—yet it even does graphics, so now you'll be able to draw graphs with your 41 (see our printer description on this page).

Stock #82242A [41 IR Printer Module] List $65 .... **$54.95**

Blank Mag Cards

HEWLETT PACKARD

Without holders:
Stock #13143 [80 Magnetic Cards] **$42.95**
Stock #13142 [Mag Card Book] **$4.25**

Batteries/Rechargers

NiCd Multi-Charger
for N, AA, AAA
and 9-volt size batteries

Ledford
Micro

Just think, in the thousands of hours of service from a NiCd (with 1000 recharges) you'll save hundreds of dollars over throw-aways. 5 year/ 1000 recharge warranty.

Protected against polarity reversal. #41835 includes sleeve-adaptors for N-cells.

Stock #835 [Charger, Adapters, 4 NiCd N-cells]........................$25.95
Stock #NAA [NiCd AA-cell] .... each $2.95
Stock #836 [2 Sleeve-Adapters for N-cells] $2.50
Stock #NNiCd [NiCd N-cell]... each $2.95
Stock #9VN [9v NiCd cell] $8.95
Stock #738 [Charger only] $10.95

Rechargeable Battery Pack and Recharger

(hp) HEWLETT PACKARD

The battery pack of 4 half size N Cells fits into your HP 41 and remains in your machine during recharging periods. The external recharger plugs into the pack through the tunnel cover on the side of the HP 41 and provides hundreds of recharges. The recharger fits other HP equipment.

Stock #82120A [Rechargeable Battery Pack]............................$32.95
Stock #82059D [Recharger] $18.95

HP 41 Accessories

Touchpad Keyboard Overlay

(hp) HEWLETT PACKARD
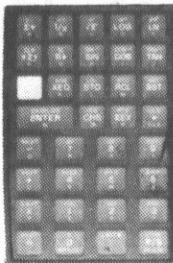
It will keep your HP 41 safe from coffee or other problem liquids or particles. This plastic membrane snaps into place over the keyboard. All of the button nomenclature has been reproduced on it.

Stock #82200A [Touchpad] List $20 ....$18.95

Protector for HP 41 Calculators

COMP-U-BAG
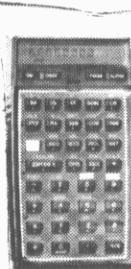
Zip out dirt and moisture—you can use your calculator right in the oil field (or the pillow fight) if it's in one of these flexible, transparent bags (not sealed against pressure); used daily, each bag will last a couple months. Fits into leather field cases, with easy access to plug-in ports.

Stock #543 [Comp-U-Bag] List $2.50 ....$2.25
Stock #543T [10 Comp-U-Bags] List $25 ....$20.00
Stock #543A [Anti-Static Bag] List $3.50 ....$2.75
Stock #543R [41 + RAM box Anti-Stat Bag] List $3.50.............$2.75

Blank Overlays
Stock #82172-5 [5 Blank Overlays] $6.50
Stock #82172 [50 Blank Overlays] $54.95

Memory Modules
More Memory For Your HP 41
Do you ever run out of memory—and have to discard programs and data you want to save? Why not exploit the fantastic potential of your HP 41—get yourself the freedom of enough space, NOW!

Extended Functions
for the HP 41CV or HP 41C Quad

(hp) HEWLETT PACKARD

Plug in the Extended Functions/Memory Module (EFM) to get 868 more bytes of memory—plus many new functions you can call on, such as: Clear all key assignments, Delete named program and all following it, Restore flag status, Create data file, Directory of extended memory files, Replace last program in main memory, Purge file, Copy text file to mass storage—38 in all. Owner's Manual included.

Stock #82180A [Ext Funct/Mem Module] List $75...................$63.75

Extended Memory
for the HP 41CX or HP 41CV/EFM
or HP 41C/EFM

Plug in 1 or 2 Extended Memory Modules—each module adds 238 registers or 1666 bytes to your machine. With both added you'll have a grand total memory space of 6433 bytes, including 4200 bytes of extended memory.

Stock #82181A [Extended Memory Module] List $75..............$63.75

Double Extended Memory Module
for the HP 41 CX or HP 41CV/EFM or HP 41C

S.O.S.

Use only one port—this single module contains two 82181 Extended Memories, so you'll save a port for other uses. Guaranteed 1 yr by S.O.S.

Stock #600 [Double X Mem Module] List $185 ....$149.95

Application Pacs with HP 41 Modules
Transform your HP 41 into a special-purpose machine, automatically programmed for your own needs. These Pacs contain tremendous new power. Simply plug the module in a port and in some cases install a keyboard overlay and you have hundreds of hours of proven programming at your finger-tips. It's all pre-programmed with every feature the experts could think of. Here are all the available Application Pacs, arranged by the subject areas they cover. Each comes complete with owner's manual.

General Interest

Games
(hp) HEWLETT PACKARD

Super Bagels ▪ Biorythms ▪ Craps ▪ Hangman ▪ Submarine Hunt ▪ Random Number Generator ▪ Pinball ▪ Space War

Stock #15022 (Games Module)...$42.95

Time
(hp) HEWLETT PACKARD

The Time Module expands your HP 41 computing system with time information and time-controlled operations. Using the quartz-crystal controlled Time Module, your HP 41 can become the heart of a time-based system controller, an alarm clock, an appointment reminder, a calendar, a timer, even an advanced stopwatch. Already built into 41-CX. Owner's Manual included.

Stock #82182A (Time Module) List $75 ....$63.75
Stock #90395, Time Module Solution Book $14.50

HP 41 Calculators

Standard Applications
HEWLETT PACKARD

RPN Primer ■ Arithmetic Teacher ■ Word Guessing Games ■ Hexadecimal-Decimal Converter ■ Financial Calculations ■ Root Finder ■ Curve Fitting ■ Vector Operations ■ Blackjack ■ Calendar Functions
Stock #15001 (Standard Applications Module) $42.95

Math/Science

Advantage
HEWLETT PACKARD

Real and Complex Matrix Operations ■ Simultaneous Equations on Real and Complex Numbers ■ Solve (roots of f(x)=0) and Integrate (similar to HP 15C) ■ 3-dimensional Vector Operations ■ Complex Number Operations ■ Number Base Conversions and Boolean Logic (similar to HP 16C) ■ Curve Fitting ■ Roots and Evaluation of Polynomial Equations ■ Differential Equations ■ Coordinate Transformations ■ Time Value of Money (similar to HP 12C) ■ User-Accessible Subroutines
Stock #15055 (Advantage Module) $42.95

Math/Statistics (Combined Pac)
HEWLETT PACKARD

Matrix Operations ■ Solutions to f(x)=0 on an Interval ■ Polynomial Solutions/Evaluation ■ Numerical Integration ■ Differential Equations ■ Fourier Series ■ Complex Operations ■ Hyperbolics ■ Triangle Solutions ■ Coordinate Transformations ■ Basic Statistics for Two Variables ■ Moments, Skewness and Kurtosis ■ Analysis of Variance (One Way) ■ Analysis of Variance (Two Way) ■ Analysis of Covariance (One Way) ■ Curve Fitting (Linear, Exponential, Logarithmic, and Power Curve) ■ Multiple Linear Regression ■ Polynomial Regression ■ t Statistics ■ Chi-Square Evaluation ■ Contingency Table ■ Spearman's Rank Correlation Coefficient ■ Normal and Inverse Normal Distribution ■ Chi-Square Distribution
Stock #15049 (Math/Statistics Module) $42.95

Engineering

HP 41 Civil Engineering

March Programming

Dirt Quantity and Longitudinal Profile Calculations, handheld where you need them, and fast. Drafts the slope of the cross sections and gives cut and fill volumes separately, announcing the end balance at each cross section. Gives differential elevations between natural ground and street section. Calculates (and drafts, if required) longitudinal profile of roads and highways.
Requires Hp 41C. Works with English or Metric measurements.
Stock #815 (March CE Module) $99.95

Structural Analysis for Civil Engineers
HEWLETT PACKARD

Section Properties ■ Beams ■ Simply Supported Continuous Beams ■ Continuous Frame Analysis ■ Setting of Continuous Beams ■ Steel Column Formula ■ RPN Vector Calculator ■ Reinforced Concrete Beams ■ Reinforced Concrete Columns ■ Effective Moment of Inertia for Concrete Sections
Stock #15021 (Structural Analysis Module) $44.95

Stress Analysis for Mechanical Engineers
**HEWLETT PACKARD**

Section Properties ■ Beams ■ Simply Supported Continuous Beams ■ Columns ■ Mohr Circle Analysis ■ Soderberg's Equation for Fatigue ■ Strain Gage Data Reduction ■ RPN Vector Calculator
Stock #15027 (Stress Analysis Module) $42.95

Machine Design
HEWLETT PACKARD

Circular Cams ■ Generation of a Four Bar Linkage ■ Progression of a Four Bar System ■ Forces ■ Standard External Involute Spur Gears ■ Helical Spring Design ■ Forced Oscillator with Arbitrary Function ■ Coordinate Transformation ■ Points on a Circle ■ Circle by Three Points ■ Unit Conversions
Stock #15020 (Machine Design Module)................................... $42.95

Cv-PAK VALVE Sizing/Noise Module

GAS COMPRESSIBILITY
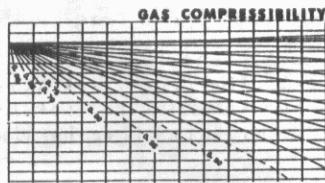
Impress your clients with immediate answers to lengthy valve sizing and noise calculations evaluate alternatives by touching a button! Portable. Inexpensive.

Cv-PAK is menu-driven with prompts in plain English using standard industry terminology. Solves for Cv, flow, pressure drop; gas/vapor/steam sizing—vol or weight flow; noise; outlet mach number; liquid sizing with flashing and cavitation warnings; MUCH MORE. Programs may be used as subroutines, too.
User's Manual with instructions, sample problems and reference tables; Quick Reference Card.
Stock #735 (Cv-PAK Module) List $275 ...... $99.95 ~~$199.95~~

Navigation/Surveying

KEYS Surveying Module

Fred Mc Michael, P.L.S.

Access routines with one or two keystrokes—no spelling out! Choice of output in bearings and/or N. or S. azimuths.

Routines included are traverse, inverse, B-B, B-D, D-D intersects, radial stakeout, rotation, trig levels, sideshots, sideshots with trig levels, offsets from a line or curve with stationing, offset intersections, slide line and swing line area cutoffs, three points on a circle, horizontal curve stakeout, curve solutions, point to point area and traverse or inverse area including curved sides, renumber, coordinate list, directions definable by point numbers, numerous automatic entries, coordinate prompting for unused points, contours, stake set, slope reduction, double angles and feet to meters conversion with optional output during sideshots, hour angle sunshot using ephemeris, compass and advance compass traverse adjustment. All file handling routines.
Requires HP-41CX (or HP-41CV with Extended Functions Module). Stores 62 points, or add an Extended Memory Module to store 181 points, or add two to store 300 points (or put 5000 points on disc or cassette).
Stock #901 (KEYS Surveying Module) List $200 .... $189.95

Surveying
HEWLETT PACKARD

Traverse, Inverse and Sideshots ■ Compass Rule Adjustment ■ Transit Rule Adjustment ■ Intersections ■ Curve Solutions ■ Horizontal Curve Layout ■ Vertical Curves and Grades ■ Resection ■ Predetermined Area ■ Volume by Average End Area ■ Volume by Borrow Pit ■ Coordinate Transformation
Stock #15005 (Surveying Module) $42.95

Statistics
HEWLETT PACKARD

Basic Statistics for Two Variables ■ Moments, Skewness and Kurtosis ■ Analysis of Variance (One Way) ■ Analysis of Variance (Two Way) ■ Analysis of Covariance (One Way) ■ Curve Fitting (Linear, Exponential, Logarithmic, and Power Curve) ■ Multiple Linear Regression ■ Polynomial Regression ■ t-Statistics ■ Chi-Square Evaluation ■ Contigency Table ■ Spearman's Rank Correlation Coefficient ■ Normal and Inverse Normal Distribution ■ Chi-Square Distribution
Stock #15002 (Statistics Module) $24.95

Business/Finance

Real Estate
HEWLETT PACKARD

Compound Interest and Loan Amortization ■ Internal Rate of Return ■ Modified Internal Rate of Return ■ Net Present Value ■ Depreciation Schedules ■ Income Property Analysis ■ The Rent or Buy Decision ■ Price and Yield of a Mortgage Traded at Discount/Premium ■ APR of a Loan with Fees ■ Present Value of an Increasing/Decreasing Annuity
Stock #15016 (Real Estate Module) $44.95

HP 41 Calculators

Financial Decisions
HEWLETT PACKARD

Compound Interest Solutions ■ Internal Rate of Return ■ Modified Internal Rate of Return ■ Net Present Value ■ Loan Amortization Schedules ■ Depreciation Schedules ■ Bond Price and Yield ■ Days Between Dates
Stock #15004 (Financial Decision Module).................................$42.95

Utilities/Subroutines

Extended I/O
HEWLETT PACKARD

The module provides 59 functions which extend the I/O capabilities of the HP 41 beyond those provided by the HP IL Module (82160). HP IL Module is required for use with most functions of the extended I/O Module. With the Extended I/O Module, the HP 41 can be used to control HP IL devices or non HP IL instruments through HP IL interfaces. Extended I/O functions can be divided into 4 main categories:

1. Mass storage functions
2. Character manipulation functions
3. HP IL control functions
4. Advanced control functions

Stock #82183A (Extended I/O Module) List $75.........................$63.75

ZENROM Module

A Synthetiker's delight—it's like doubling the memory of your HP 41. Just plug in this 4K machine–language ROM and ALL SYNTHETIC FUNCTIONS become automatic and commonplace, without key assignments or memory used. Keyboard overlay included to show all the options for synthetic text functions. RAM Editor function works anyplace in RAM. Machine Code Editor function accesses any place in ROM (edits any plugged–in MLDL or Protocoder II).

ZEPROMs are programmable/erasable/reprogrammable plug–in modules that fit the HP 41. Made by Zengrange Ltd, they can accommodate User Code,M Code or both. They can be erased and reprogrammed *without* dismantling the module case.

Best of all, ZEPROMs have been fully tested to British and NATO military standards of quality and reliability—including MIL STD 883C and BS9400.
Stock #550 (ZENROM Module) List $150 ....$129.95
Stock #864 (ZEPROM blank modules)......................................$125.95
Stock #864HP [ZEPROM 16K module blank]...........................$89.95
The HP version consumes 2½ times as much power during run time.

Auto/Start Duplication
Stock #15042 (Auto/Start Duplication ROM Module)..............$35.95

> *Check out anything you want without risking a penny. At EduCALC you get a two week return privilege.*

EPROM Modules

Swap Discs

Public domain software for the HP 41, HP 71 and HP 75 is available for the cost of a blank 3 1/2" disc ($1.95 each). This is a service and not a product, as most of the programs are not documented and none are supported in any way. See Technical Note Listing 26 (page 00 of this catalog) for details.

Stock #DSK1	(CHHU01)	45/111/105
Stock #DSK2	(CHHU02)	82/79/133
Stock #DSK3	(CHHU03)	242/51/99
Stock #DSK4	(CHHU04)	9/148/9
Stock #DSK5	(CHHU05)	1/216/0

45/111/105 means 45 HP 41 files, 111 HP 71 files, and 105 HP 75 files on the disc. Most HP user groups have details on the disc contents.

EPROM & ZEPROM Services

Your program or data can now be burned into an EPROM. All you need to supply is your worksheet and your program data on a cassette, disk or magnetic cards (2 sets of mag cards required). What you get is an EPROM containing your program data. Send for your free programming worksheet (Stock #617V). Allow 2 weeks for the programming. Completed worksheet required. ZEPROM not included.

	Original	Duplicates
Stock #677 (programming EPROM 16K)	$105	$15 each
Stock #617V, Worksheet		...... Free

One at a Time Zeprom Programmer (Voltage Converter)
Zengrange

Burn your own custom programs with this low volume, low cost EPROM burner. Easy to use—merely plugs into an HP 41 port and a Zeprom is plugged into it. Building a useable ROM image does require some skill, but if you're familiar with the use of the Zenrom, for instance, you'll find it simple to command.
Stock # 894 [One at a Time Programmer] List $85 ....$69.95
Stock #864 (Zeprom, blank module) $125.95
Stock #864HP (Zeprom, blank, high power)...............................$89.95
The HP version consumes 2½ times as much power during run time.
Stock #864S (Pgmr + blank EPROM #864HP)........................$149.95

Combined Modules

Not Enough HP 41 Ports?
S.O.S.

Combine two or three HP 41 modules into one!
Dual Modules—Combine a Quad Memory, Extended Memory or Time Module with each other or any normal Application Pac.
Triple Modules—Combine one Extended Functions and two Extended Memory Modules (this is the most common), or any one normal Application Pac with two Extended Memory Modules (HP 41CX).
HP IL Conversion—Your HP IL can be combined with either the HP IL Development, Extended I/O or Plotter Module. All conversions are warranted by S.O.S. (not HP) for 1 year after conversion. Please allow 2 to 3 weeks, list any modules that you are enclosing for conversion on the order form and indicate that they are supplied by you. Price of service does not include modules.
Stock #531D [Double Module Conversion] $30.00
Stock #531T [Triple Module Conversion] $55.00
**Stock #531L [HP IL Conversion]**..$45.00

Soft/Bookware

Advanced Programming Tips for the HP 41
by McCornack/Jarett

For serious programmers—explains **modular programming** (and how to save bytes and running time), **synthetic programming** (with several unpublished techniques and line–by–line analyses of many programs), **M–code** (so you can decide if this area of programming is for you), and **application routines** (with discussions of several for the ZENROM and CCD modules). Bar code included for the programs.
Stock #491, 41 Adv Programming Tips, 340p sftbnd .....~~$9.95~~... ~~$20.95~~

Computer Science on your HP 41
using the Advantage ROM
by Ed Keefe

Turn your 41 into an HP 16C! Here's a powerful program in book form, with bar code as well as complete program listing—all done in Grapevine's easy-to-understand style.
**Stock #485, Cmptr Sci on your HP 41, 183p wirebnd**.....~~$9.95~~...~~$14.95~~

HP 41 Calculators

Inside The HP 41

by Jean-Daniel Dodin

(translated from the French
by Mary-Denise Dodin
and I. Vandenabbeele;
revised and edited by Wilson W. Holes)

Discover the secrets of your HP 41! Here is your **intermediate-level** tour through its inner workings. Learn about memory structure, the status registers, the byte grabber, synthetic programming, and microcode — the language of the HP 41's microprocessor. See examples of the intricate internal programming of the HP 41, the microcode that makes the HP 41 what it is. **$8.95**
Stock #355, Inside the HP 41, 256p softbound .... ~~$12.95~~
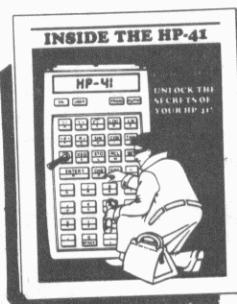
Programming the
HP 41C/CV/CX 2nd Edn

by Thomas Adams

Give this step-by-step course a half-hour every day and you'll soon be a programming pro. The author has himself written many (medical) programs for the HP User's Library—now he shows you how with lots of examples, charts, diagrams and illustrations.

Despite its **intermediate** level, this introductory book has no prerequisites, and you can follow it with any model of the HP 41.
Stock #413, Prog HP 41C/CV/CX, 171p spiralbnd $19.95

HP 41 Extended Functions Made Easy

by Keith Jarett

If you own an HP 41CX or an Extended Functions Module, you need this book. If HP's manuals have left you wondering whether you can really do anything useful with your Extended Functions/Memory Module or HP 41CXs, it's not your fault. The manuals barely begin to describe their capabilities. This book explains each function fully at an **intermediate-to-advanced level**, giving examples and typical uses.

Application programs include: a mailing list manager, a text editor, a root finder, differentiator, integrator, and much more. Chapter 10 has several powerful synthetic utility programs (with barcode) for advanced users or wand owners. Put your Extended Functions and Extended Memory to work! **$9.95**
Stock #206, Ext Functions Easy, 240p spiralbound .... ~~$16.95~~

Extend Your HP 41

by Wlodek Mier-Jedrzejowicz

This is the definitive work on the HP 41!

The ULTIMATE REFERENCE BOOK for your HP 41 system—plus many hours of FASCINATING READING. The first 200 pages show a beginner how to make full and efficient use of his instrument; even experts will appreciate some of the clever programming hints in this **advanced-level** book.

Next come explanations of Time and Extended Functions, and Extended Memory, with a full discussion of peripherals and modules (including the Advantage). The last 200 pages introduces synthetic programming and illustrates several new SP tricks, covering PRP and PAC functions plus synthetic key assignments that use no synthetic instructions! Appendices include bar code and a list of system bugs.

This is the largest and most complete collection of useful facts for the HP 41 system—no 41 owner should be without it. **$26.95**
Stock #621, Extend your HP 41, 670p softbound .... ~~$29.95~~
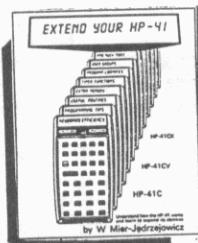
Synthetic Programming Made Easy

by Keith Jarett

The best introduction to SP for the uninitiated. Highly readable, it uses all the latest simplified techniques, including 'byte grabbing' and 'byte loading', to make the learning fun and easier than ever before. Contains up-to-date programs, including Extended Functions and Time Module applications. Includes a plastic Quick Reference Card (41-92C) for Synthetic Programming. All the basics are here, with a full cross-reference to other sources. By Chapter 3 you will be able to key up synthetic programs from the HP User's Library or any other source. No peripherals or modules required, but a Card Reader, XFUNCTION Module, or Wand will be helpful. Bar code for all programs is included. **$9.95**
Stock #146, HP 41 Synthetic, 192p spiralbound .... ~~$16.95~~

SOLUTION BOOKS for the HP 41
Only $14.50 Each!

The solution books provide step-by-step keystroke listings for specific problems in specific disciplines. Although they are not as convenient as the Application Modules, they cover more programming details in many of the same areas. They are perfect for the person who is involved in specific programming solutions, program modifications, or as a reference program library. Available titles are:

Stock #90093, Antennas	$14.50
Stock #90094, Business Statistics/Marketing/Sales	$14.50
Stock #90145, Calendars	$14.50
Stock #90100, Chemical Engineering	$14.50
Stock #90102, Chemistry	$14.50
Stock #90089, Civil Engineering	$14.50
Stock #90092, Control Systems	$14.50
Stock #90088, Electrical Engineering	$14.50
Stock #90139, Fluid Dynamics & Hydraulics	$14.50
Stock #90099, Games	$14.50
Stock #90443, Games II	$14.50
Stock #90084, Geometry	$14.50
Stock #90140, Heating, Ventilating & Air Conditng	$14.50
Stock #90083, High-Level Math	$14.50
Stock #90096, Home Construction Estimating	$14.50
Stock #90086, Lending, Savings, & Leasing	$14.50
Stock #90090, Mechanical Engineering	$14.50
Stock #90144, Optometry II (Contact Lens)	$14.50
Stock #90142, Physics	$14.50
Stock #90136, Real Estate	$14.50
Stock #90137, Small Business	$14.50
Stock #90138, Solar Engineering	$14.50
Stock #90141, Surveying	$14.50
Stock #90082, Test Statistics	$14.50
Stock #90395, Time Module Solutions I	$14.50

HP Manuals in Spanish
Stock #90540, HP 41CV Quick Reference Guide (Sp) $4.95

Need Extra OWNER'S MANUALS?

Stock #90526, HP 41CV Owner's Man-Basic Oper	$10.00
Stock #90474, HP 41CX Owner's Handbook, Vol I	$10.00
Stock #90492, HP 41CX Owner's Handbook, Vol II	$15.00
Stock #701, Card Readers Owner's Handbook	$5.00
Stock #703, HP 82143A Printer/Plotter Owner's Hndbk	$6.00
Stock #707, "Creating Your Own Bar Code" Man	$15.00
Stock #714, Ext Funct/Mem Mod Owner's Hndbk	$10.00
Stock #715, Time Mod Owner's Handbook	$15.00
Stock #90531, Operation in Detail (CV)	$14.95
Stock #876, Ext I/0 Module Owner's Hndbk	$9.95
Stock #2103, Infrared Printer Owner's Hndbk	$9.95

User's Library Software Catalog
for your HP 71/HP 41
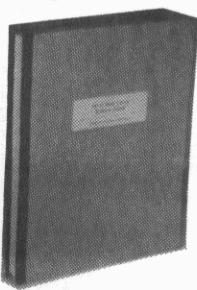
The list of topics is enormous — from crop science to computer science, from payroll to marketing, plus every engineering speciality and every field of numerical math and statistics, and physics and chemistry, and social sciences. Many of these will work for you.

Stock #202B, User's Library Software Catalog $12.95

HP-41 MCODE for Beginners

by Ken Emory

Learn to be an Insider, step-by-step. Ideas and techniques are introduced one-at-a-time and illustrated with programs—so you'll quickly be able to set up the function address table and write a simple program which accesses the mainframe ROMs. All programs are fully documented and **demystified**.

Advanced programmers will find a complete explanation of the display, including the new one that accesses additional LCD characters and allows alteration of the contrast. There's also a **first-time** description of the memories HP uses for the display. Other new stuff includes an explanation of partial key sequencing as used by the ZEN and CCD ROMs.

M-CODE programming on your HP 41 requires a special Quasi-ROM memory unit, such as the ERAMCO MLDL, the RAM expansion unit, or the CMT-100 Application Module Simulator. *$9.95*

Stock #374, Beginners MCODE, 192p wirebound .... ~~$12.95~~

Point Storage
Conversions Booklets   *D'Zign*

Combined, these booklets turn your existing HP Surveying Pac into a complete Point-Storage System. Use them separately or together. Requires HP 41, Survey Pac and a few minutes time for editing. Each booklet contains program listing, user instructions and keystroke examples; also available with all programs on magnetic cards.

Traverse, Inverse and Sideshots

Works just like the Survey Pac you're used to, but it stores the coordinates as it calculates them. A short driver program also does **really fast** radial inversing between the stored points for radial stakeout.

A built-in **compass adjustment** routine not only adjusts the coordinates, it also inverses between them as it makes the adjustment. No need to reinput the adjusted coordinates to get the new bearings and distances.

Coordinate Transformation

Rotate or re-scale the coordinates you stored as you calculated the traverse, or input the coordinates manually. Eliminates the need for inversing with the traverse routine after rotation or scaling of coordinates, because the inversing is done automatically as the coordinates are changed. Takes half the time of the Survey Pac program.

Intersection Solutions

Use this one with the stored coordinates to establish any new points needed. It will use pre-stored or manually input coordinates **by point number** to quickly solve intersection problems. Brg-Brg, Brg-Dist, Dist-Dist or Offset to a Line.

Predetermined Areas

Calculate needed areas for subdividing with the stored point numbers from your traverse. Fast resolution of the area. User assigns the new point numbers as the areas are calculated. All newly generated coordinates are stored for reuse.

Stock #2344 (Point Storage Conversions) $19.95
Stock #2345 (Point Storage Conversions with cards) $36.95

Solutions Booklets
Quick solutions to a surveyor's everyday problems—programs for use in HP 41 with Survey Pac.

Vertical Alignment Solutions   *D'Zign*

Calculate continuous vertical alignment without changing back and forth between grade and curve routines. Output is in a form that makes sense and prevents mistakes.

Asymmetrical curves are handled as easily as symmetrical. Includes a routine for calculating compounded or reserve vertical curves.

Stock #885, Vertical Alignment Sols, 16p combbound $8.95
Stock #885M (Vertical Alignment, Mag Cards incl) $12.95

Spiral Curve Solutions

The only **complete** spiral curve program for a handheld! Contains the standard Deflection-Chord and Tangent-Off-set solutions, and will also calculate the coordinates of any station or offset to a station **anywhere within the system**.

Subroutine will automatically calculate the inverse from the instrument to any calculated point; new Spiral to Line and Spiral to Curve intersection routines.

Stock #888, Spiral Curve Solns, 36p combbound $8.95
Stock #888M (Spiral Curve Solns, Mag Cards incl) $15.95

PC program requires CALC-41, stock # S-747C, installed.
Stock #2087 (PC Spiral Curve Solns, 5¼") $29.95

EDM Slope Staking

Set slope stakes with your EDM. Program reduces each shot to the information needed to make out the stake. Subroutine gives the angle and distance for setting the reference stake, then produces the information to put on it.

Works from anywhere in the general vicinity of the alignment you are staking as long as you know the station and offset of the instrument and backsight.

Stock #887, EDM Slope Staking, 18p combbound $8.95
Stock #887M (EDM Slope Staking, Mag Cards incl) $12.95

HP-IL Interface Loop
Interfaces

### Interface Adapter:
RS-232 Interface

HEWLETT PACKARD

The Most Popular Communications Interface is Now Available for Your HP 41, HP 71 or HP 75.

The HP-IL/RS-232C interface is fully asynchronous and bit-serial which lets your handheld talk to and work with other computers, terminals, peripherals, and modems. It features an input and output buffer, interface control logic, function keys and local or remote operating states. Extended I/O module required for most HP 41 applications.

Stock #82164A [RS-232 Interface] List $295 .... $249.95

1	Ground
6	Handshaking out
2	5 volts
7	Handshaking in,
3	Ground
8	Received data +
4	Transmitted data +
9	Received data −
5	Transmitted data −
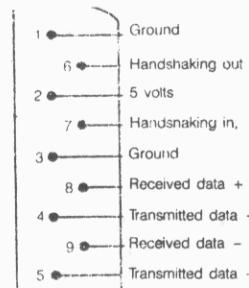
POQET/HPIL
Interface Module

LTS   *Brand New*

Connects to POQET Serial Port, to drive ThinkJet, 9114 Disk Drives, Plotters, etc. Operates up to 30 devices on loop simultaneously, at up to 7,000 bytes/sec.
Stock #2472 [POQET/HPIL Module] $239.95

HP-IL Interface Loop

LINK Plus

- Would you like a Big Monitor for your HP 41, 71 or 75?
- Want a Page Printer?
- How about a DISC DRIVE for storage?
- A Big Keyboard? A Mouse?

Southern Software

You can have it all—for less than the cost of one single peripheral! This program links your HP 41, 71 or 75 via HP-IL to an IBM PC/Compatible or Vectra, or an HP 150. (The IBM and HP 150 versions require the 82973 Portable/Desktop Link card which has the HP-IL capabilities.)

With Link you will never have to buy another gizmo for your handheld. It has four modes of operation which you choose from a menu on the PC (or set mode from the handheld). Three of the modes are the emulators for disc drive, printer and video display. They do what you expect.

Mode 4 is not an emulator. In it the PC appears as an interface device on the loop. The handheld can output data ('write') to any DOS file or device and it can also input data ('read') from it. It gives you access to any DOS file on your PC. You can read/write text files, binary or hexadecimal data, etc. LINK enables you to move the file pointer around so that you can add on to the end of an existing file, overwrite previous data, etc.

Manual gives detailed examples for each handheld for each mode plus a complete listing of responses to HP-IL messages. Choice of disc size.

Stock #785 (Link, 5¼") List $85		$79.95
Stock #785A (Link, 3½" IBM) List $85		$79.95
Stock #786 (Link, 3½" HP Format) List $85		$79.95

Toshiba T1000 to HPIL

interloop

- Machine Control
- Office Equipment

Card installs internally in T1000 laptop computer to make the T1000 into an HPIL controller or device—up to 23 devices per loop, with transformer isolation and common mode noise immunity.

DOS-resident device driver included on diskette which uses INT 54 calls for interfacing with user software. Programming examples provided in Quick Basic 4.5 and Turbo Pascal.

Stock #IL161 [T1000/HPIL Interface] List $250 .... $229.95

Specialized Digital Products from Interloop

Stock #IL201 [Step Motor Driver] List $830		$799.95
Stock #IL210 [I/O Interface] List $575		$529.95
Stock #IL211 [I/O Interface, Digital only] List $435		$399.95
Stock #IL230 [I/O Driver] List $410		$374.95
Stock #IL231 [I/O Driver, Protected (LM395)] List $450		$414.95
Stock #IL235 [Temperature I/O] List $270		$249.95
Stock #IL236 [I/O Driver 8/8] List $185		$169.95

HP-IL/HP IB Interface

HEWLETT PACKARD

You can connect the HP 41, HP 71 or HP 75 to some of the most sophisticated computer equipment anywhere. This interface expands your handheld's control and communications capabilities by linking low-cost HP-IL systems with high-performance HP IB (IEEE488) computers and lab equipment. It gives you the option of using over 120 HP IB compatible devices, not to mention many more offered by other manufacturers.

Stock #82169A [HP-IL/HP IB Interface] List $395 .... $334.95
Stock #82169L, HP-IL/HP IB Interface Literature .... Free

PC/HPIL Interface Card

interloop

Transfer spreadsheets or data between your PC and the HP 110 or use your PC as controller on the IL loop. This card goes in a slot inside your PC and enables the PC to be a peripheral device on a loop controlled by the 110; the PC may also be a loop controller using IL-peripheral devices (but not both at once).

Comes with Interface Software Disc containing Owner's Manual and 1 m HP-IL Cable.

Stock #IL151 [PC/HPIL Interface Card] List $200 .... $189.95
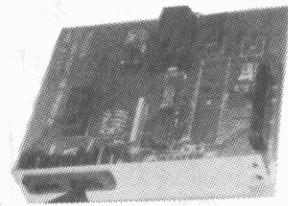
GPIO Interface

The GPIO interface will enable you to use your HP-IL system to control equipment operating with parallel bus structures. This device contains the port buffering and a built-in power supply that operates from an HP standard AC adapter (included with the 82165). Potential applications for the 82165 include interfacing to computers for data collection, interfacing to specialized devices in production or lab environments, and interfacing to devices such as printers with parallel interfaces. Owner's Handbook included

Stock #82165 [GPIO Interface] List $295 .... ~~$244.95~~ $195.95

Disc/Cassette Drives

Digital Cassette Drive

HEWLETT PACKARD

The Digital Cassette Drive uses a digital-quality mini-cassette capable of storing up to 128K bytes of information. Files can be located by name easily on this cassette drive. Rewind time is under 30 seconds and read/write operations are executed at 9 inches per second. Search speed is 30 inches per second.

All tape movement is under microprocessor control. Buffer space is provided in the Drive for temporary storage of directory information to help minimize access time and tape motion. The HP82161 can locate files when under program control. It also features STANDBY mode, enabling an HP-IL controller to turn the Drive on or off remotely. This unique feature helps extend system battery life and allows for system operation in remote applications.

The Drive uses a two-motor system to move the tape past a two-track magnetic head specially designed to resist data alteration due to externally generated magnetic fields. Owner's Handbook included.

Stock #82161A [Digital Cassette Drive] List $250		$189.95
Stock #82176A [Data Mini-Cassette]		$9.50
Stock #82176-10 [10 Data Mini-Cassettes]		$88.95
Stock #82177A [Cassette Labels, blank]		$14.95
Stock #82167A [HP-IL Cable, ½ meter]		$5.95
Stock #82167B [HP-IL Cable, 1 meter]		$7.95
Stock #82167D [HP-IL Cable, 5 meters]		$9.95
Stock #82033A [Rechargeable Battery Pack]		$24.95
Stock #82059D [Recharger]		$18.95
Stock #82066B [Recharger – 22-v]		$22.95

HP compatible Disc

Stock #1351 [Spectrum/BASF 3½" Disc] $1.95

Replacement Battery

Used in the rechargeable battery pack (88014B) for disc drive. The T9 Torx Tool is required to remove the cover; spade terminals connect to the battery.

Stock #LCR6V2 [Battery]		$18.25
Stock #T9 [Torx Tool]		$4.95
Stock #88014B [Battery Pack]		$58.95

Printers

ThinkJet
80 Column ThinkJet Printer

HEWLETT PACKARD
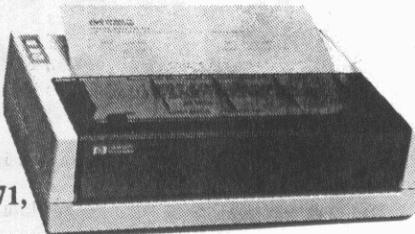
- **HP-IL Driven:** Use it with your HP 41, HP 71, HP 75, or HP 110!
- **Portable:** Weighs 5½ lb, and it's battery powered!
- **Super Quiet:** Revolutionary print-head operates well below 50db noise level.
- **Cost Effective:** Under $400, with HP reliability.
- **Fast:** 150 Characters per second.
- **High-Quality Print:** With an 11 by 12 dot matrix, bidirectional, logic-seeking, 1KB buffer, and it does underlining or boldface in one pass!

We were skeptical when we first heard from HP about this new printer. A glance at those specs above makes it seem like having your cake and eating it too. The explanation is simple but startling: 'THINKJET' stands for THermal INK JET, which is a highly innovative technology that scales down all the virtues of big, fast ink-jet printers to a portable size. It cost HP five and a half years of research and development, with a big-bucks budget—and, naturally, it is very popular (which means that you should let us know right away that you want yours).

InkJet means that tiny drops of ink are squirted onto the paper, so the print-head never actually touches the paper. That's why it's so quiet. That's also why it needs no ribbon; instead, you simply replace the printhead for just $10.95. The ink cartridge is right in the head—enough for more than 500 pages of text. Incidentally, 'Thermal' means that the head boils the ink to paint it onto the paper.

More Facts: Size 3.5"H×11.5"W×8.1"D—6 2/3" print line on 8½" paper—graphics resolution 96×96 or 192×96 dots per inch—text resolution 11×12 dots per character—print pitches: normal, expanded, compressed, expanded-compressed—print modes: boldface, underline—6 or 8 lines per vertical inch—rich ROMAN8 character set, for Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, and Swedish—pin feed for fanfold paper and friction feed for single sheets—8.5"×11" paper or size A4 (21.0× 29.7cm)—product life 3,500,000 lines or 100,000 pages—20 watts max, operates from 50° to 104° F.

Stock #2225B [ThinkJet Printer, IL version] List $495..........$399.95
Stock #2225P [ThinkJet, Parallel, Batts] List $495..................$399.95
Stock #2225A [ThinkJet, IB version, AC] List $495.................$399.95
Stock #2225C [ThinkJ Cntrnics Parallel, AC] List $495........$399.95
Stock #2225D [ThinkJet, RS-232 Serial, AC] List $495 ....$399.95
Stock #82199A [Battery Pack]..$43.95
Stock #92261A [Printhead Cartridge] $10.95
Stock #92261S [HP Acrylic Printer Stand].............................$45.95
Stock #2097 [EduCALC Printer Stand] $17.95
Stock #82167A [½ Meter Cable]..$5.95
Stock #82167B [1 Meter Cable]..$7.95
Stock #82167D [5 Meter Cable]..$9.95
Stock #92250V [Dust Cover] $17.95
Stock #35178C [Case, cordura] List $59...................................$49.95
Stock #51630A [Ink-Jet paper, 500 sheets, fan fold*]..............$13.50
Stock #92261N [Ink-Jet paper, 2500 sheets, fan fold*]............$58.95
*Add $15 (500 sheets) or $40 (2500 sheets) for Foreign Surface Shipments; Domestic Air shipping not available.

Plain Paper Printhead Cartridge
for all ThinkJets and QuietJets

Stock #51604A [Plain Paper Cartridge] List $11 ....$9.95

ThinkJet COLOR Printing!

Stock #51605B [Blue Ink Cartridge for 2225] List $13 ....$10.95
Stock #51605G [Green Ink Cart for 2225] List $13..................$10.95
Stock #51605R [Red Ink Cartridge for 2225] List $13.............$10.95

Bookware

Control the World with HP-IL

by Gary Friedman

You can build and control an intelligent telephone autodialer/answering machine (complete with a speech synthesizer!), an automated darkroom controller, an ultrasonic distance measurement unit, a dissolve controller for two slide projectors, and more.

Photos, illustrations, and circuit diagrams are used throughout the book so all project instructions are easy to follow. The general-purpose building blocks and concepts behind them are so powerful that you'll find dozens of other uses for them.

Stock #490, Control the World, 340p spiralbound ....~~$24.95~~ $16.95

HP 41/HP-IL System Dictionary

by Cary Reinstein

Updated in September 1983, this classic includes over 900 of the most-used functions. Each function is described, outlined and cross-referenced to other functions it might affect or those that can be used with it. Also included is an execution timing chart for HP 41 functions, a subroutine decision table, special "synthetic" instructions to use to assign any function to any key and methods to produce 128 tones, reference charts for the printer and time module, and lots more.

Stock #102, HP 41/HP-IL, 91p softbound $3.95

Need Extra Owner's Manuals?

Stock #708, HP-IL Interface Mod Owner's Handbk...............$10.00
Stock #709, Digital Cassette Drive Owner's Hndbk.................$10.00
Stock #710, Therm Prntr/Pltr 82162 Owner's Hndbk $10.00
Stock #712, HP-IL/GPIO Interface Owner's Hndbk................$15.50
Stock #482, HP 71 IL Owner's Manual......................................$25.00
Stock #839D, RS-232 Owner's Handbook....................................$20.00
Stock #479, HP-IL/HP IB Owner's Handbook $13.95

Accessories *Lifetime Guarantee*

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Carry your HP-IL System or a Peripheral safely

EduCALC

- High tech—a double-wall shell of tough, solid, blow molded polyethylene
- Low cost—we've had it made to fit your gear, and we pass along the savings (no middleman)
- Hard-sided—so strong you can stand on it, resists abuse, dust and common chemicals

Handsome, a double-wall construction with trapped air layer insulates contents from shocks, vibration, temperature changes (it also provides flotation for your gear when the canoe turns over). Cannot be opened upside down by mistake. Lockable.

File folder installed inside lid for your papers and programs. Cubed foam interiors—2 layers of partially pre-cut 1-inch cubes that you pluck out by hand to fit your gear. Plus foam liner layer.

Systems Case is 17¼×12×3 inches inside—it will fit your HP 41, 71 or 75 system. Wires may be run under foam for in-case operation.

Stock #2118 [Systems Case] $59.95

Surplus HP Gear—Now you can afford a
- **9114B HP–IL 3½ Disc Drive**
- **2225B HP–IL ThinkJet Printer**
- **HP 75D Package**

FREE HP 75D Package

I want to move these units out FAST! So, when you buy any one of these three, Disc Drive or Printer or HP 75D Pkg, I'll sell you the entire HP 75D Package (a $279 value) for only $90 more—just order your HP 75D Package as:

Stock #HP75DU1 [Used Computer Pkg] **$90**

—OR—

Buy any two of these items, Disc Drive and Printer or 2 Printers or . . . , and I'll give you a HP 75D Package FREE! Just add this line to your order:

Stock #HP75DU2 [Used Computer Pkg] .... **FREE**

Here's the story—
These units were recently installed in a chain of stores for point-of-sale inventory control until a corporate decision to change accounting methods prematurely retired them.
It's a shame. But we lucked out to get them at a truly low price. This corporate mistake is your opportunity—however, you must act fast.

Up to 90% Off!

Used, yes—but believe me, this industrial grade equipment is in excellent, near–new condition— perfect operating shape — and every unit comes with our 30–day guarantee. If your unit fails to operate properly in any way whatsoever, we'll replace it FREE.

This liquidation means you can have that IL Disc Drive or ThinkJet that you've wanted, and that full-memory HP 75 to experiment with—these units are really affordable! **But do not delay**—we must limit these fantastic savings to stock on hand. Let us know right away that you want one.

3½" Disc Drive—this is the current model, and it comes with everything: rechargeable battery, recharger, HP–IL cable, manual. See description of 9114B on facing page. List price new is $695, so you buy this used unit at a **whopping 64% discount!**

Additional Savings—HP–IL Module for your HP 41 included FREE.

Stock #9114BU [Used 3½" Disc Drive] $199

IL ThinkJet Printer — this is the current production model that is so popular—see description of 2225B on facing page. List price new is $495, so you can have fast, quiet IL printing now at this **giant 68% discount!**

Stock #2225BU [Used ThinkJet Printer] $129

HP 75D Package—loaded with extras! You get the HP 75D computer, plus the 8K RAM Expansion Module that plugs into its battery compartment, plus the Expansion Pod that adds a modem, barcode decoders, and a huge 64K RAM disc full of super-fast memory, plus the Barcode Wand! That's a lot, so I'll display the list here for you (remember, you get the whole package)—

1. (HP 75) Portable Computer
2. (HP 82700) 8K RAM Memory Module
3. (HP 82718B) Expansion Pod
4. (HP 92267B) Barcode Wand

HP 75D is 5 × 10 × 1¼ in, 26 oz, with 16K RAM built in. It has a card reader, wand interface and port, touch–type keyboard (the keyboards on these units have never been used). Comes with manual, battery pack and adapter/recharger, IL cables.

Expansion Pod fits as a cradle on your 75, has 300 baud, direct–connect modem and decoders for 3 of 9 Code and Code 11.

Barcode Wand is medium resolution (0.19 mm min width of narrow element) for code produced on dot–matrix printers.

The total list price for this gear new is $2715—so your cost is **discounted an unbelievable 90% ! ! !**

Stock #HP75DU [Used Computer Package] **$279**

Thank You for Your Order!

HP 71 Peripherals *While They Last!*

Multicase for the HP 71
$599
Stock #922 [Multicase-128] List $925 .... ~~$799.95~~
Stock #922L Multicase Literature.................... Free

HP-IL Interface
hp HEWLETT PACKARD

Plugs inside port at upper left of HP 71 to create a system that can print, plot, store, retrieve, and display information. Control or read instruments, or speak to other computers. 5000 bytes/sec. Built-in ROM includes 46 separate commands. Interface to HP-IL, HP IB, RS-232C, GPIO, or Series 80. Owner's Manual included.
Stock #82401A [71 HP-IL Interface] List $125 .... $105.95

Card Reader
hp HEWLETT PACKARD

Installs easily into top of your HP 71—uses the same hand-pulled cards as the HP 75 for inexpensive off-line storage of data/programs. 1.3K bytes per card. 5 cards included.
Stock #82400A [71 Card Reader] List $165 .... $139.95

Accessories/Batteries

AC Adapter for the HP 71
hp HEWLETT PACKARD

Same stationary power source as for the HP 41 and HP 75. Does not recharge batteries in the HP 71.
Stock #82059D [Power Supply] $18.95
Stock #82066B [Power Supply, 230 v] $22.95

Anti-Static Protector Bag
Comp-U-Bag

Zip out dirt and moisture, plus protect your instrument from loss of data or IC damage from accidental static electric discharge. Bag keeps keyboard feel, lasts for months. Easy access to ports, fits into leather case.
Stock #543S [Anti-Static Bag] List $3.50 .... $2.75

71 Touchpad
EduCALC

Ruggedize your HP 71 for hazardous duty
Keyboard overlay resists spills and spatters as well as dust and grit. It snaps neatly in place over your keyboard—has all key legends reproduced in their correct colors.
Stock #810 [71 Touchpad] List $29 .... $12.95 ~~$23.95~~

NiCd Multi-Charger
for N, AA, AAA and 9-volt size batteries
Ledford Micro

Beat the cost of throw-away batteries—this universal unit recharges NiCds for the HP 71 (also HP 19B, 28S and HP 41B)—2 or 4 at a time, in only 5 hours.
Just think, in the thousands of hours of service from a NiCd (with 1000 recharges) you'll save hundreds of dollars over throwaways. 5 year/1000 recharge warranty.
Protected against polarity reversal.
Stock #738 [Charger, batteries].................... $13.95
Stock #NAAA [NiCd Battery for 71B] Requires 4.................... ea. $3.10
Stock #836 [2 Sleeve Adapters for N-cells] $2.50

HP 71B Accessories
Stock #82059D [Adapter] $18.95
Stock #82707A [30 Blank Magnetic Cards] $29.95
Stock #82462A [Overlay Kit, 5] $11.95
Stock #82167A [HP-IL Cable, ½ Meter] $5.95
Stock #82167B [HP-IL Cable, 1 Meter] $7.95
Stock #82167D [HP-IL Cable, 5 Meters] $9.95
Stock #AAA [Alkaline Batt for HP 71] Requires 4.................... ea. $.89

Memory/Special Modules
RAM Memory Modules (Front Port)
Get more memory—just plug in up to 4 of these modules. (We can even hard-wire up to 8 of these at a modest additional charge.)
Stock #656 [32K Plug-in RAM].................... $149.95
Stock #656B [64K Plugin RAM] $279.95

Application Pacs **hp**
It's like having an IBM mainframe computer, programmed for your profession, right in your hand! Each pac comes with a ROM module (16 to 48K), which fits neatly inside your 71B, and complete documentation, written to HP's high standards.
Finance
Stock #82482A (71 Finance Module) List $75.................... $69.95
Math
Stock #82480A (71 Math Module) List $95.................... $84.95
Text Editor
Stock #82485A (71 Text Editor Module) List $75.................... $69.95
Curve Fitting
Stock #82484A (71 Curve Fitting Module) List $95 .... $84.95
Data Acquisition
Stock #82479A (71 Data Acquisition Module) List $195 .... $169.95
Statistics
Stock #82489A (71 Statistics Module) List $95 .... $84.95
AC Circuit Analysis
Stock #82481A (71 AC Circuit Module) List $75 .... $69.95
HP 41 Translator
Stock #82490A (71/41 Translator Module) List $95 .... $84.95

71 Bookware
Need Extra Owner's Manuals?
Stock #875B, HP 71 Reference Manual.................... $19.95 ~~$30.00~~

HP 71 BASIC Made Easy *Sale*
by Joseph Horn

What your owner's manual doesn't reveal! Learn how to use CALC mode and the command stack as efficiently as RPN.
Learn BASIC and operation system tricks including PEEKing and POKEing. Try some of the fascinating, fun and elegant BASIC application programs, or modify them to fit your needs. Use the alphabetical syntax guide for quick reference when you are programming. An excellent tutorial and an indispensable reference, this is the definitive work on BASIC and the HP 71 by the world's foremost expert on the subject.
Stock #354, HP 71 BASIC, 163p softbound .... $9.95 ~~$18.95~~

Used Equipment
We can supply a limited amount of HP 41, 71 and 75 used gear. Call for availability.

HEWLETT PACKARD

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Optional 2nd day UPS AIR Shipment— to 48 states for only $6.75 additional.

Optional OVERNITE UPS Shipment— to 48 states for $17.75 additional up to 20 lbs. Call (800)677–7001 to order.

AIR Shipments outside USA, typically 1 week— add $2 per ½ kg to Canada and Mexico, $4 per ½ kg to Europe, $6 per ½ kg elsewhere. We bill exact shipping charges to credit cards, or refund exact cash excess.

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Personal Checks— Allow 12 days for clearing large amounts.
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Total Of Above	
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Total Enclosed	

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